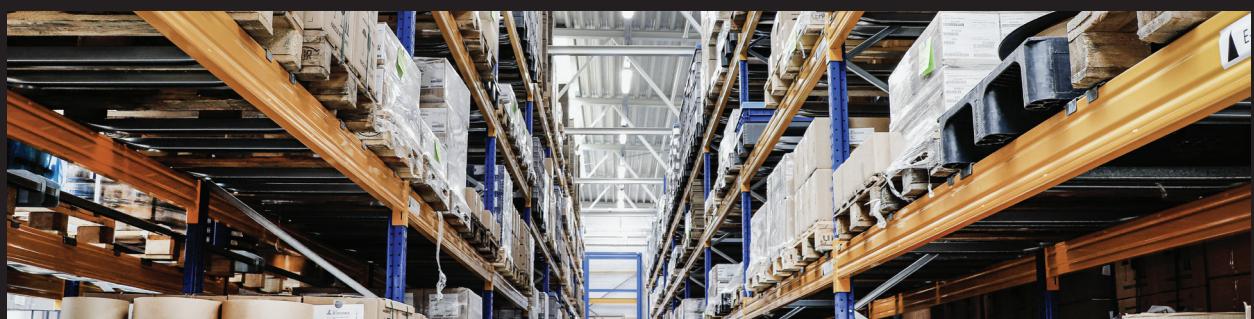


TRE VOS

CZECH LED
LUMINAIRES



2024

ABOUT COMPANY



HISTORY

Headquartered in the north of Bohemia in the Czech Republic, Trevos is a market-leading manufacturer of industrial and interior luminaires, boasting over 30 years of experience. Trevos is also a local and global technological trendsetter when it comes to producing high-quality, innovative and affordable light fixtures. Currently exporting to over 60 countries in the world, the company has its own R&D Department and invests heavily in innovations to satisfy market demands.

In 2021, Trevos launched NANOTTICA, a family of cutting-edge light fittings that feature a nano-structure. So far, this patent-pending technology has not been used by any other manufacturer anywhere in the world.

The total turnover of the company is divided into two basic groups: Domestic sales – 40 % and Export sales – 60 %.

REGIONAL POSITION

The interest of the market in the Czech Republic in industrial and indoor light fittings is mostly driven by the demand of assembling companies from the branch of electrical engineering. Deliveries are secured through the network of wiring material and light fitting wholesale customers. The TREVOS company ranks among leading manufacturers of industrial and office light fittings at the domestic market.

With almost 240 employees, TREVOS counts itself as one of the largest employers in the region.

GLOBAL POSITION

Besides its significant share of the domestic market, the company is also very active in export. It successfully exports its products into more than 50 countries of the world, e.g. Germany, Italy, Belgium, Poland, Netherlands, Estonia, Switzerland and many more.

The company acquired its illumination technology market share first of all by the implementation of its own research and development in the production of innovative models of light fittings as well as investments into quality thermoplastic materials and electric components. The business strategy of the company is also based on the production of continually innovated lines of light fittings inspired by modern trends of illumination technology while keeping reasonable prices in comparison with top world producers.

The business has been continually increasing especially with customers from the European Union, to which Trevos supplies complete products modified in details on the basis of individual customer's requirements.

COMPANY GOAL

The goal of the company is to offer its clients first-class products for competitive prices.

LIGHT FITTING DEVELOPMENT

All development tasks are subject to and strictly managed by the ISO 9001 quality process.

The development and implementation of production of new light fitting type lines is driven particularly by market requirements which are monitored in detail and summarized into marketing studies.

The projects are well secured as regards human resources. The members of the technical division have the required know-how and experience. They apply the results to industrial practice. Within the projects, they also closely cooperate with knowledgeable academicians of several technical universities.

The technical division has an extensive background of premises with cutting-edge equipment, serving for the implementation of applied research and experimental development including the execution of key measurement and tests.



PRODUCTION

The production program of the company is segmented into product lines of light fittings with similar or identical ways of use. Another criterion consists in type lines distinguishing the products by the achieved technical parameters and their capabilities.

The company has a large technological park that ensures its own production program. All injection machines are robotized. New innovative technologies include e.g. the robotized overmoulding of aluminium cores, the fully automated System Robot connecting workstation or the Sonderhoff foaming line.



CERTIFICATION

Company TREVOS, a.s. utilizes an integrated management system (IMS) that consists of a range of processes, rules, policies, and documents the company needs to deliver high-quality products and provide superior services in an appropriate and timely fashion, ensuring everything is done perfectly the first time. The company is managed in accordance with these processes, rules, policies, and documents.

Our ISM integrates a variety of the company's performance criteria to ensure compliance with the requirements of a number of management system standards. These include ČSN EN ISO 9001:2016 (QMS) and ČSN EN ISO 14001:2016 (EMS) as well as ČSN EN ISO 50001:2019 (EnMS) and ČSN ISO 45001:2018 (OHSMS). The ISM uses simplified processes, procedures and documents while increasing production efficiency and eliminating the elementary approach. As a result, costs are cut, system efficiency increases, and less effort is required.

We are holders of the EPD, ENEC, CB, ESČ, EAC, ATEX and DLG certificates. We are authorized to the use the "Czech Quality" mark for light fittings with ESČ licence. Ex fittings designed for hazardous areas (zones 1, 21): conformity to type ensured by internal production management and product testing under the supervision of a notified body.



ENVIRONMENT

Pursuant to Czech Act No. 541/2020 Sb. (the Waste Act), and Act No. 542/2020 Sb., on End-of-life Products, Trevos participates in EKOLAMP, a non-profit initiative seeking to ensure compliance with applicable electrical appliance collection and recycling rules. Additionally, Trevos meets the requirements of Directive

No. 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS) as well as of Regulation No. 1907/2006 concerning the registration, evaluation, authorisation and restriction of chemicals (REACH).



THE EPD PROTOCOL?

You may have already heard of the EPD protocol, but if not, we'd love to introduce it to you.

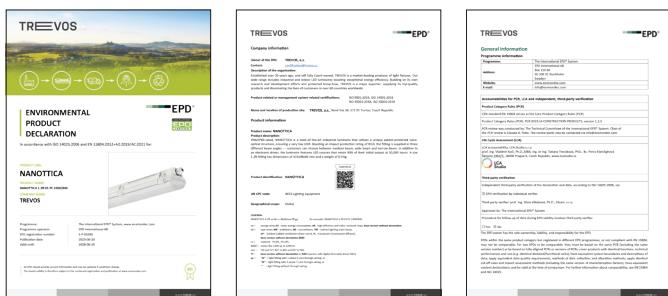


The EPD protocol is an important internationally recognized document that helps us to transparently describe the environmental impact of our products. It is a set of measurable information that covers, for example, energy consumption, water consumption, waste production, recycling or climate change impact, throughout the entire life cycle of a product, including its final recycling.



To obtain an EPD report, all data is carefully verified by a third party, so you can be sure that it is trustworthy and verifiable.

Our EPD protocols are registered and published in the Envirodec International EPD system. They can also be downloaded from our website.



With EPD protocols, you can make good and informed decisions about your suppliers and contribute to a more sustainable future.

The protocols were created by: LCA Studio
The protocol is only a sample.

[#WeCareAboutFuture](#)



TRE VOS
CZECH LUMINAIRES



TREVOS LUMINAIRES AND DIALUX PLUG-IN

... our aim is to make it easier and more fun for you to plan and calculate lighting for your project – as well as empower you with a tool that will allow you to deliver professional presentations of your artificial lighting calculations. That is why we have joined DIALux.

In the DIALux planning tool, you will find Trevos luminaires from the NANOTTICA, FUTURA and INNOVA product lines.

Our lighting specialists will design and calculate lighting projects for interiors, exteriors, sports grounds or streets in the DIALux software completely free of charge for you.

Do you require a lighting design or calculation for an indoor or outdoor space, sports facility or street with TREVOS fixtures in DIALux?

You can start working on it today – our products now feature in this planning tool.

WHY HAVE WE CHOSEN DIALUX?

The world's leading lighting design and planning software, DIALux connects designers and manufacturers from all over the world, boasting over 700,000 users. The software is currently available in 25 language mutations.

All major lighting manufacturers offer digital product data for the purposes of planning in DIALux. Crucially, DIALux is impartial and neutral towards all manufacturers.

At TREVOS, we are confident joining DIALux will make planning lighting so much easier for you.

WHAT IS DIALUX?

It is software. Available free of charge, DIALux is a global gold standard for designing, calculating and visualising lighting solutions in a myriad of indoor as well as outdoor arrangements. The software was created in 1994 – and has been maintained since then – by German company DIAL GmbH. As a tool for working with contemporary lighting designs and design implementation, the software meets all the requirements that a designer may have.

HOW DOES DIALUX WORK?

DIALux allows you to create a lighting design featuring selected luminaire versions with their actual light and technical properties and parameters, while also making it possible to import these from the database. The software considers the international regulations, limits and norms applicable to the given working space and evaluates if the proposed lighting system meets the relevant legislative and health and safety requirements.

Not only can the software simulate a combination of daylight and artificial light. It can also take into account the circadian rhythms of the human body in the calculations.

WHAT IS THE RESULT?

The result is a 3D render of a lighting solution where distribution of lighting intensity (light distribution curves), light uniformity and unwanted glare are visualised. This professional material can be used to support your proposed lighting project and increase the chances of it being approved.

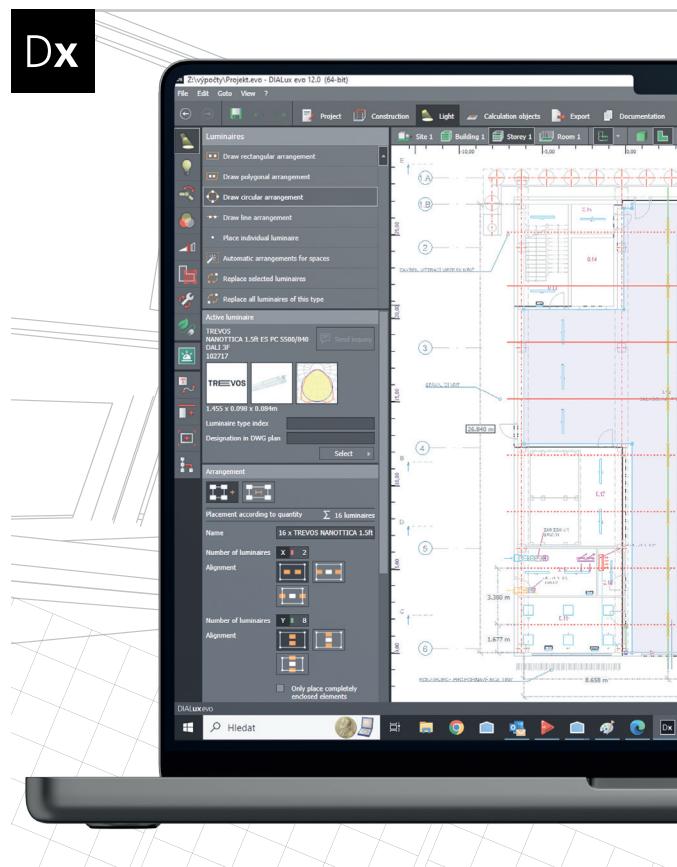
WHY SHOULD I USE DIALUX?

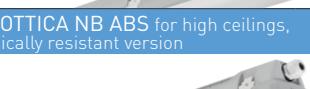
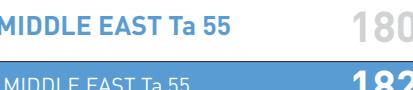
This is a complex photorealistic rendering software bundle that allows import and export of .dxf and .dwg files from and to all CAD programmes as well as the use of .3ds files for realistic modelling and creating photorealistic videos and presentations. The software includes most norms and standards.

SOUNDS GREAT! HOW DO I START?

Just go to the "Download" section on our website and download a .zip file with the offline version of the catalogue. Alternatively, you can open the online version of the catalogue at luminaires.dialux.com, choose TREVOS luminaires and import these into your open project in DIALux Evo. It really could not be easier.

We hope you will enjoy preparing lighting design proposals and lighting calculations more than ever before.



| Industrial plastic | | Industrial plastic | Industrial plastic |
|---|-----------|---|---------------------------|
| NANOTTICA | 14 | PRIMA | 76 |
| NANOTTICA ES TRS energy saver, exceptionally low UGR | 16 | PRIMA | 78 |
|  | |  | |
| NANOTTICA ES energy saver | 20 | NEW PRIMA VP for outdoor spaces | 81 |
|  | |  | |
| NANOTTICA TRS exceptionally low UGR | 24 | PRIMA ABS chemically resistant version | 84 |
|  | |  | |
| NANOTTICA basic version | 28 | NEW PRIMA VP ABS for outdoor spaces, chemically resistant version | 87 |
|  | |  | |
| NANOTTICA NB for high ceilings | 32 | PRIMA VALUE value version | 90 |
|  | |  | |
| NANOTTICA WB for low ceilings | 36 | NEW PRIMA VALUE ABS value, chemically resistant version | 93 |
|  | |  | |
| NANOTTICA ES ABS energy saver, chemically resistant version | 40 | PRIMA CLASS II with Class II insulation | 96 |
|  | |  | |
| NANOTTICA ABS chemically resistant version | 44 | NEW PRIMA TRS exceptionally low UGR | 99 |
|  | |  | |
| NANOTTICA NB ABS for high ceilings, chemically resistant version | 48 | PRIMA SNS with motion detector | 102 |
|  | |  | |
| NANOTTICA WB ABS for low ceilings, chemically resistant version | 52 | INNOVA | 106 |
|  | |  | |
| NANOTTICA VP for outdoor spaces | 56 | INNOVA | 108 |
|  | |  | |
| NANOTTICA VP ABS for outdoor spaces, chemically resistant version | 60 | INNOVA NB for high ceilings | 111 |
|  | |  | |
| NANOTTICA MAX for extreme temperatures | 64 | INNOVA WB for low ceilings | 114 |
|  | |  | |
| NANOTTICA CLASS II with Class II insulation | 67 | INNOVA ABS chemically resistant version | 117 |
|  | |  | |
| NANOTTICA SNS with motion detector | 71 | INNOVA NB ABS for high ceilings, chemically resistant version | 120 |
|  | |  | |
| | | INNOVA WB ABS for low ceilings, chemically resistant version | 123 |
| | |  | |
| | | INNOVA TRS for both direct and indirect illumination | 126 |
| | |  | |
| | | FUTURA | 130 |
| | | FUTURA, ES PC, HE PC | 132 |
| | |  | |
| | | FUTURA VP for outdoor spaces | 143 |
| | |  | |
| | | FUTURA NB for high ceilings | 147 |
| | |  | |
| | | FUTURA ABS, ES ABS, HE ABS chemically resistant version | 150 |
| | |  | |
| | | FUTURA CLASS II with Class II insulation | 160 |
| | |  | |
| | | FUTURA MAX for extreme temperatures | 164 |
| | |  | |
| | | FUTURA SNS with motion detector | 167 |
| | |  | |
| | | FROST | 172 |
| | | FROST for cold stores and freezing facilities | 174 |
| | |  | |
| | | FROST PLUS for cold stores and freezing facilities | 177 |
| | |  | |
| | | MIDDLE EAST Ta 55 | 180 |
| | | MIDDLE EAST Ta 55 | 182 |
| | |  | |

Industrial plastic**PRIMA LED** 186**PRIMA LED** 188**PRIMA LED VP**
for outdoor spaces 191**PRIMA LED ABS**
chemically resistant version 194**PRIMA LED CLASS II**
with Class II insulation 197**PRIMA LED TRS**
for both direct and indirect illumina 200**PRIMA LED MAX**
for extreme temperatures 203**PRIMA LED SNS**
with motion detector 205**PRIMA LED Ex**
for explosion-hazard environment 208**PRIMA LED TUBE** 211**PRIMA LED TUBE SLIM** 214**NEW****RED, BLUE, HCL****CONCEPT RED**
with red light module 218**CONCEPT BLUE**
with blue light module 220**HUMAN CENTRIC LIGHTING**
to boost circadian rhythms 222**Industrial metal****TrEx** 226**TrEx**
for explosion-hazard environment 228**PERUN SLIM** 234**PERUN SLIM** 236**PERUN SLIM Ex** 239**NEW****ALUMAX LED** 242**ALUMAX LED** 244**ALUMAX LED MAX**
for extreme temperatures 247**CANOPUS** 252**CANOPUS** 254**CANOPUS HE**
high efficiency 261**LANUS** 266**LANUS SQUARE** 268**NEW****LANUS ROUND** 270**NEW****Indoor surface-mounted plastic****LINEA** 274**LINEA** 276**LINEA SQUARE** 278**LINEA ROUND** 280**LUXOR LED** 284**LUXOR LED** 286**SB LED** 290**SB LED** 292**LYRA** 294**LYRA** 296

Indoor surface-mounted plastic**BELTR LED** **298****BELTR LED** **300****BELTR LED TUBE** **303****NAOS** **308****NAOS** **310****NAOS AS** **313****NAOS SQUARE** **315****NAOS MPR** **317****NAOS SQUARE MPR** **320****MO SLIM** **324****MO SLIM** **326****Emergency light fittings****Emergency** **330****PRIMA LED NM** **332****PRIMA LED Ex NM** **335****FUTURA NM** **337****PRIMA NM** **340****PERUN SLIM Ex NM** **343****NEW**
BELTR LED NM **346****HELIOS LED** **349****PLEXI LED** **352****Additional information****INFORMATION** **356****DALI PROFESSIONAL CONTROL** **356****PROPOSAL OF EMERGENCY LIGHT FITTINGS** **362****FUTURA 2.4ft, 2.5ft**
PRIMA 1.6ft, 1.5ft

| montážní výška [m] | 2,0 | 4,7 | 9,3 | 8,9 | 8,6 | 3,9 | 4,4 | 10,0 | 9,1 | 8,1 | 3,6 |
|--------------------|-----|------|------|------|-----|-----|------|------|-----|-----|-----|
| 2,5 | 4,2 | 11,5 | 11,1 | 10,6 | 4,8 | 4,7 | 10,0 | 11,2 | 9,8 | 8,8 | 4,0 |
| 3,0 | 5,0 | 12,6 | 12,1 | 11,6 | 4,6 | 5,0 | 11,0 | 11,8 | 9,6 | 8,6 | 4,2 |

CORRIDOR FUNCTION **364****SOURCE COLOUR RENDERING** **366**

| Source colour rendering correct choice | Worm white | White | Daylight | Indoor light level |
|---|------------|-------|----------|--------------------------|
| Light colour | 100 | 70 | 29 | 827 |
| CIE division | 3 | 18 | 1A | 927 |
| Shape - footcuff | ● | ● | ● | 830 |
| Show - road | ● | ● | ● | 930 |

CHEMICAL RESISTANCE **367**

| Aromatic acid and Oxalic acid | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
|-------------------------------|-----|---|---|---|---|---|---|---|---|---|---|
| Citric acid | 20% | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Nitric acid | 20% | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Mineral acid | 50% | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Hydrochloric acid | 5% | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Hydrobromic acid | 25% | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Chloroacetic acid | 40% | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Formic acid | 20% | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |

LIGHT FITTING MAINTENANCE FACTOR **368**

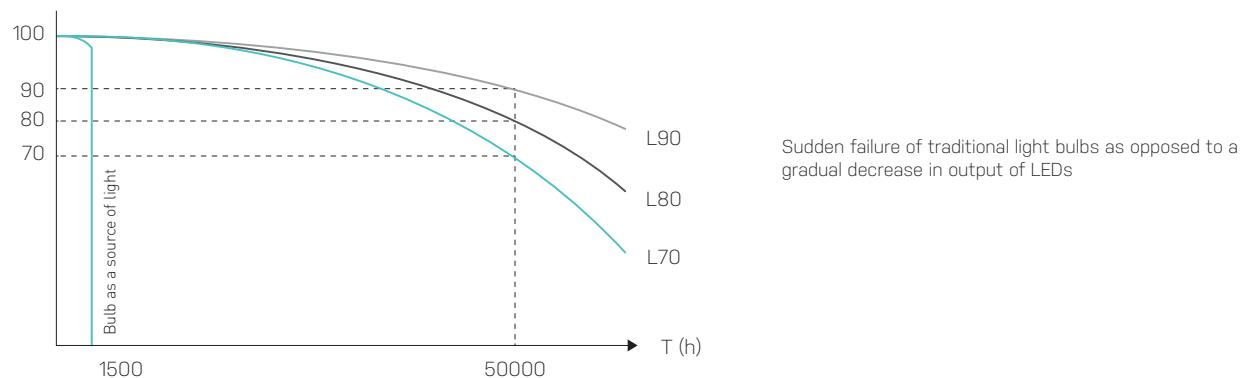
IP65, IP66 light fittings – FUTURA, PRIMA LED, PERUN LED, ALUMAX LED, LINEA

Cleaning intervals in years

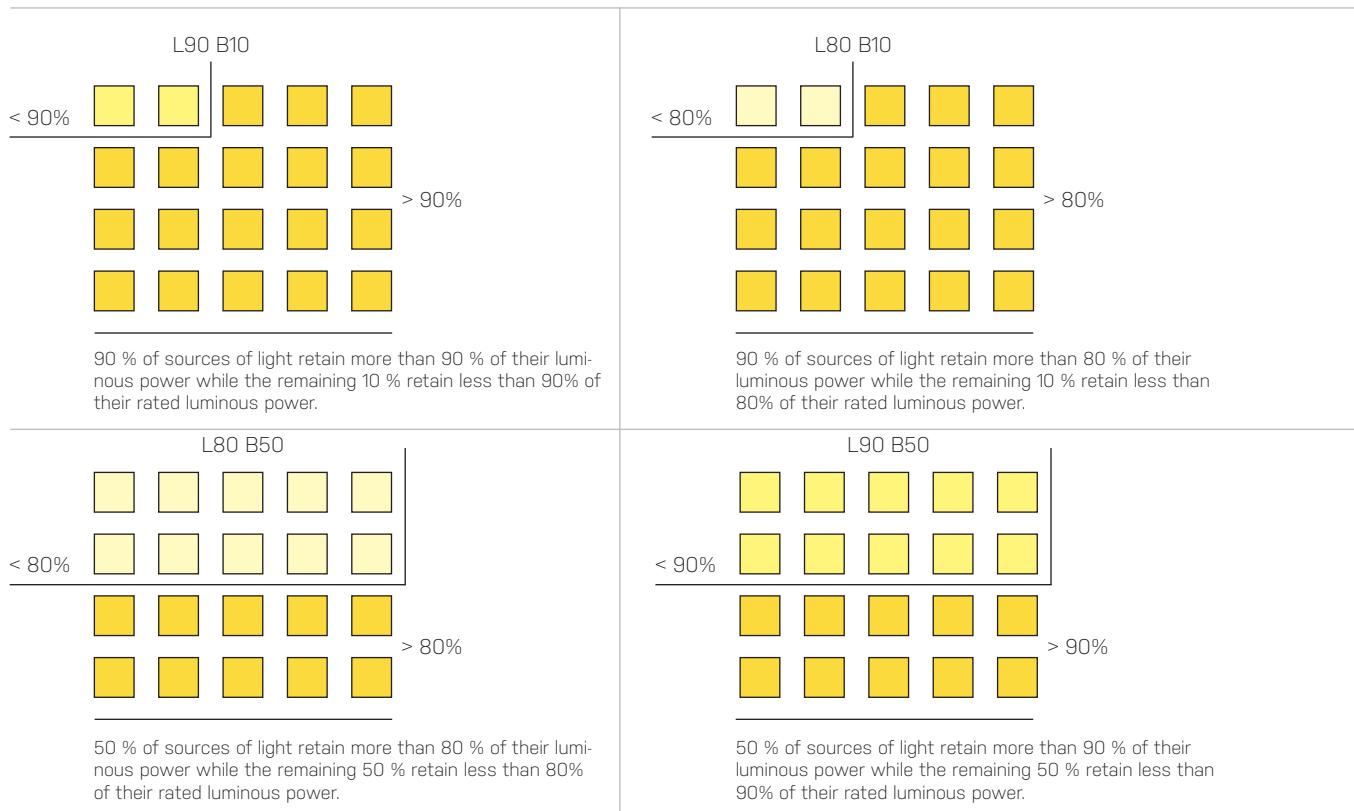
| Environment | 1,0 | 1,5 | 2,0 | 2,5 | 3,0 |
|-------------|------|------|------|------|------|
| Very Clean | 0,94 | 0,93 | 0,93 | 0,92 | 0,92 |
| Clean | 0,94 | 0,91 | 0,91 | 0,90 | 0,90 |

| | | | | | |
|--|---|---|---|--|---|
| IP66 | (Ingress Protection) code for protection level against dust, solid items and water. | 220-240 V 50/60 Hz | Nominal input voltage 220-240V, 50/60 Hz | CE | Conformity mark documenting conformity verification of product with all EU harmonising provisions |
| IP69 | Test of protection against hot water high-pressure jets. | DALI | Electric equipment: with digital dimmable driver DALI | EMC | Licence mark indicating product conformity with European standards for electric safety of product |
|  up to 45°C | Nominal maximum temperature of environment | 1F | 1 phase through-wiring connection | EAC | The mark is registered at the CENELEC as a Czech mark expressing the permanent conformity of a product with electrical safety standards |
|  850°C | Fire and ignition resistance at test by hot loop heated to 850 °C | 3F | 3 phase through-wiring connection | CB test | Internationally acknowledged certificate. Product certification according to IEC standards |
|  5 | Code for protection level against external impact Anti-vandalism version | EMERGENCY | Electric equipment: for emergency illumination with own independent source | EMC | Electromagnetic compatibility |
| LED | LED light fitting |  | Electrical equipment: a microwave motion sensor | EAC | Certificate of the United Customs Union (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan) |
| WARRANTY | Light fitting with 5-year warranty. It does not cover light fittings fitted with emergency module (2 years) and batteries (6 months). | CRI >80 | The colour rendering index determines the colour sensation accuracy at other than daily lighting | Ex | Light fitting intended for environments with danger of explosion |
|  D | Light fitting external surface warming | I CCT 4000 K 3 SDCM | The chromaticity temperature determines the colour spectrum of the light (it is given in Kelvin - K) | HACCP | Declaration of conformity with legal norms for food industry |
|  1 | Class 1 light fitting - basic insulation, plus terminal for guard wire | L90 B10 | During the stated operation life and under observance of the specified operating conditions, no more than 10% (B10) chips could experience defaults and the total luminous flux of the light fitting will not drop under 90% (L90). | DLG | The light fitting complies with the relevant requirements of the German Agricultural Society (DLG) and may be installed in agricultural buildings. |
|  2 | Class 2 light fitting | | |  BALL-PROOF | The luminaire complies with the resistance requirements as per DIN 18032-3 and DIN EN 13964 and may be installed in sports halls. |
| | | | |  | Light fittings meet photobiological safety requirements in accordance with the CSN EN 62471:2009 standard. Suitable for use in areas with persons sensitive to UV radiation & the blue visible spectrum (daylight). |
| | | | |  | The luminaire has the EPD document that transparently describes the environmental impact of our products. This information is gathered through life cycle analysis (LCA), which serves as an objective method for verifying the environmental impact of products according to ISO 14040-49 standards. |

Reliability and long lifespan are some of the key advantages of LED technology. And while it is true that they do not last forever, unlike light bulbs and halogen lamps, LED chips never fail abruptly. Instead, they gradually fade over time until they become too dim.

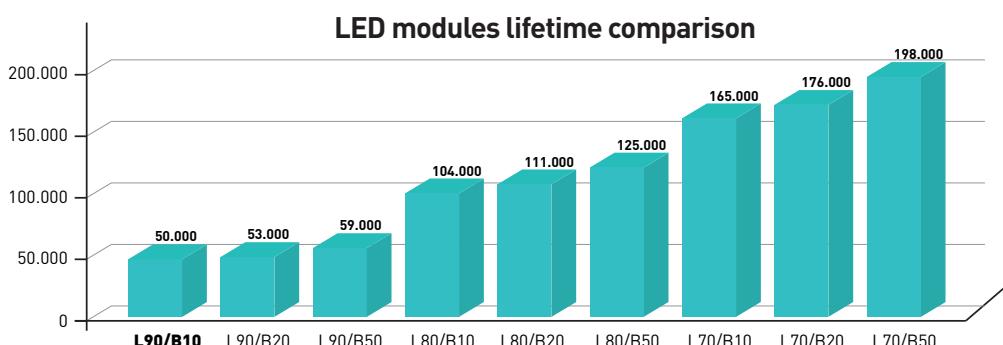


WHAT DOES LxBx MEAN?



The values shown are based on LM-80 and TM-21 standards. TREVOS LED modules' standard lifespan is indicated by their L90B10 rating. All lifespans exceeding 60,000 hours are calculated without taking into consideration other possible types of failure. The stated lifespans are indicative only and not covered by the warranty.

LED modules lifetime comparison



The given values apply to the ambient temperatures prescribed for each luminaire type and for luminaires with a given luminous power.

LIGHT FITTING NAME X.Yft**X**

- total number of LED module rows in light
- $X = \{1, 2, 4, 5, 6, 7\}$

Y

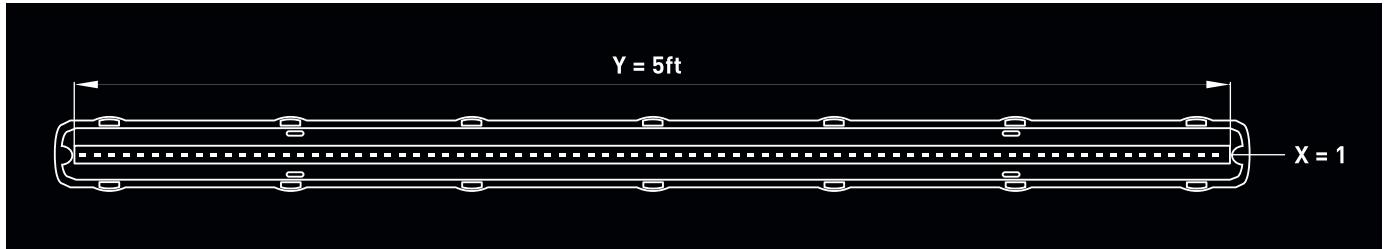
- total length of LED modules in one row
- $Y = \{1, 2, 4, 5\}$

ft

- unit of length
- 1ft = 1 feet (280 mm)

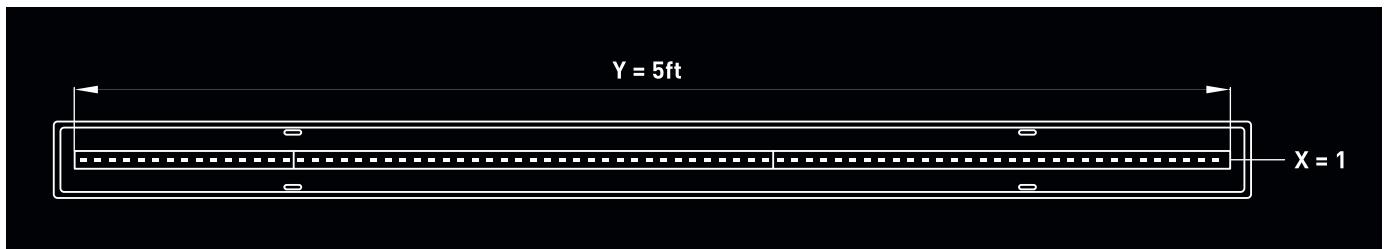
NANOTTICA 1.5ft

- $X = 1$
- $Y = 5\text{ft}$



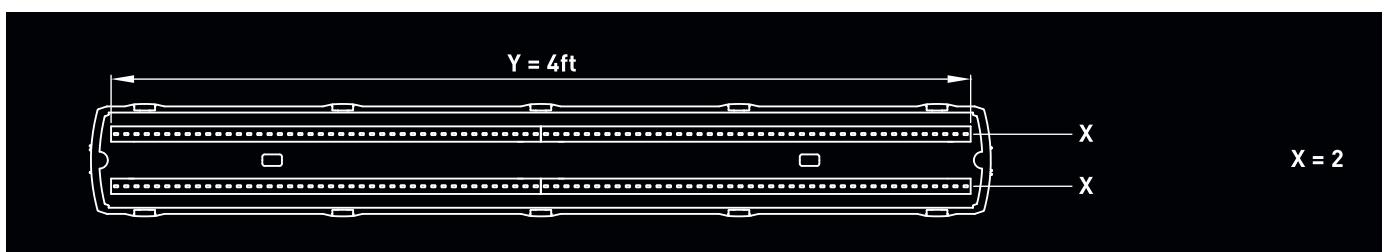
INNOVA 1.5ft

- $X = 1$
- $Y = 5\text{ft}$



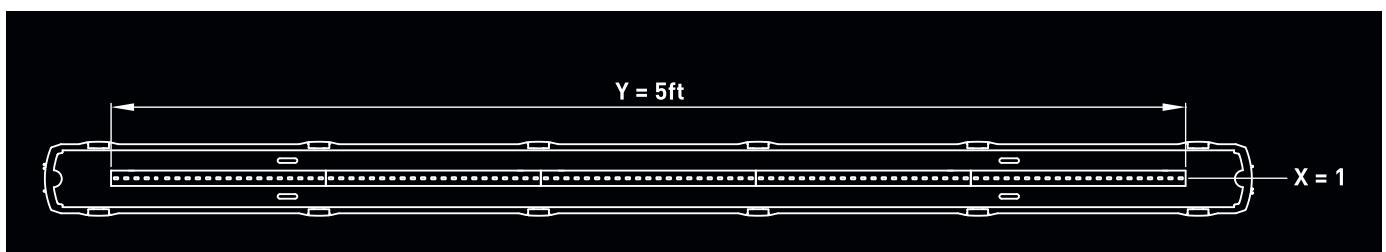
FUTURA 2.4ft

- $X = 2$
- $Y = 4\text{ft}$



PRIMA LED 1.5ft

- $X = 1$
- $Y = 5\text{ft}$





TAKE A SNEAK PEEK

The future of commercial lighting

Every year we come up with something new, be it a fixture we have just launched or a redesign of one that we have been offering for a while. In any case, we respect the needs of the market and do our best to suit each client's requirements.

Our new NANOTTICA LED light fitting family has been developed with an emphasis on reducing energy consumption while keeping the same luminous power.

Modern design process with BIM objects

Not only have we prepared BIM objects for our most popular luminaires – NANOTTICA, INNOVA, FUTURA, LINEA and PRIMA LED. We pioneered the use of BIM objects by becoming the first in the Czech Republic to offer them for this type of luminaires. Currently, designers and architects are welcome to download BIM plugins for Archicad or Revit.

[bim.lighting](#)

Are LED fittings worth it?

Here is one of the most frequently asked questions: Is investing in TREVOS LEDs and replacing an existing fluorescent lighting system worth it? Most probably yes! You can calculate replacement costs as well as your energy savings using our easy-to-use app.

[return.trevos.cz](#)

Luminaires deserve their own videos

Don't believe that exciting videos can be made about light fittings? Then check out our YouTube channel! There's an installation speed test video featuring two differently connected light fittings. There's one that shows you how to build a TREVOS exhibition stand. And there are many more that introduce our products and manufacturing processes as well as test our light fittings.

[YouTube](#)

Keeping you posted on all things TREVOS

Like us on Facebook to keep in touch with what we do. Be the first to check out our new and redesigned products, photos of our production floor and from trade fairs, and lots more. Feel free to like, share and comment.

[facebook.com/trevoslighting](#)

Sharing information with professionals

We also share info about our products as well as news on LinkedIn, though in a more formal way.

[linkedin.com/company/trevos-a-s-](#)

Hashtag TREVOS

Guess what! We have just started using a #hashtag. It gives our fans access to unusual product photos and short vids, exciting news about a product we are about to launch or redesign, and lots more.

[#trevoslighting](#)

Want us to keep you posted about all things TREVOS? Contact us at marketing@trevos.cz



TREVOS.EU

NANOTTICA



INDUSTRIAL
PLASTIC
DUSTPROOF
WATERPROOF
IMPACT RESISTANT



NANOTTICA – industrial plastic LED light fitting

| | | | |
|--|---|---|---|
| NANOTTICA ENERGY SAVER, EXCEPTIONALLY LOW UGR page 16 |  | NANOTTICA FOR LOW CEILINGS, CHEMICALLY RESISTANT VERSION page 52 |  |
| IP66 IP69 | NANOTTICA ES TRS PC, PCc page 16 | IP66 IP69 | NANOTTICA WB ABS, ABSc page 52 |
| NANOTTICA ES ENERGY SAVER page 20 |  | NANOTTICA FOR OUTDOOR SHELTERED SPACES page 56 |  |
| IP66 IP69 | NANOTTICA ES PC, PCc page 20 | IP66 IP69 | NANOTTICA VP PC, PCc page 56 |
| NANOTTICA EXCEPTIONALLY LOW UGR page 24 |  | NANOTTICA FOR OUTDOOR SHELTERED SPACES, CHEMICALLY RESISTANT VERSION page 60 |  |
| IP66 IP69 | NANOTTICA TRS PC, PCc page 24 | IP66 IP69 | NANOTTICA VP ABS, ABSc page 60 |
| NANOTTICA BASIC VERSION page 28 |  | NANOTTICA FOR EXTREME TEMPERATURES page 64 |  |
| IP66 IP69 | NANOTTICA PC, PCc page 28 | IP66 IP69 | NANOTTICA MAX PCc page 64 |
| NANOTTICA FOR HIGH CEILINGS page 32 |  | NANOTTICA WITH CLASS II INSULATION page 67 |  |
| IP66 IP69 | NANOTTICA NB PC, PCc page 32 | IP66 IP69 | NANOTTICA CLASS II PC, PCc page 67 |
| NANOTTICA FOR LOW CEILINGS page 36 |  | NANOTTICA WITH MOTION DETECTOR page 71 |  |
| IP66 IP69 | NANOTTICA WB PC, PCc page 36 | IP66 IP69 | NANOTTICA SNS PC, PCc page 71 |
| NANOTTICA ENERGY SAVER, CHEMICALLY RESISTANT VERSION page 40 |  | NANOTTICA ACCESSORIES page 75 |  |
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| NANOTTICA CHEMICALLY RESISTANT VERSION page 44 |  | | |
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| NANOTTICA FOR HIGH CEILINGS, CHEMICALLY RESISTANT VERSION page 48 |  | | |
| IP66 IP69 | NANOTTICA NB ABS, ABSc page 48 | | |


BIM ready
www.bim.lighting

NANOTTICA ES TRS



... energy saver, exceptional efficiency and UGR, ceiling height from 3.5 to 8 m, impact resistant.

USE

Compared to its basic version, **fully transparent** Nanottica ES TRS PC boasts considerably **lower UGR values** as well as **lower energy consumption**, the latter translating into considerably **higher luminous efficacy [lm/W]**.

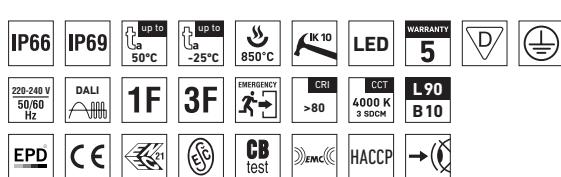
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

Its **standard beam angle** makes it a perfect choice for premises with an optimum luminaire installation height of **3.5 to 8 m**. It is designed for indoor spaces, **industrial premises, agricultural buildings, warehouses as well as sports facilities, transport hubs, car parks and garages, workshops and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Maximum light fitting efficiency: **171 lm/W**
- Patented optics ensures absolute control over light beam distribution
- Exceptionally low UGR values **range from 17.1 to 22.5**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^\circ\text{C}$ to $t_a = 50^\circ\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **EPD, ESČ, ENEC, CB, HACCP**



NANOTTICA ES TRS PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **171 lm/W**
- **UGR ranging from 17.1 to 22.5**
- Optimum luminaire installation height **from 3.5 to 8 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nano optics** (high mechanical resistance, UV stability)

- Body: **transparent PC** (high mechanical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | UGR EVALUATED FOR | | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|-------------------|------------|--------|--------|
| | | | | | | | | X = 4 H, Y = 8 H | S = 0.25 H | | |
| Up to ambient temperature ta = 50 °C - body transparent polycarbonate - diffusor with nano optics (standard beam angle), transparent polycarbonate | | | | | | | | | | | |
| NANOTTICA 1.2ft ES TRS PC 1300/840 | 50 | 1350 | 1270 | 7,6 | 167 | 17,1 / 18,9 | 0,9 | 610 | 110 - 370 | | |
| NANOTTICA 1.2ft ES TRS PC 1600/840 | 50 | 1600 | 1500 | 9,1 | 165 | 17,7 / 19,5 | 0,9 | 610 | 110 - 370 | | |
| NANOTTICA 1.2ft ES TRS PC 2200/840 | 45 | 2200 | 2070 | 12,3 | 168 | 18,8 / 20,6 | 0,9 | 610 | 110 - 370 | | |
| NANOTTICA 1.4ft ES TRS PC 2600/840 | 50 | 2690 | 2530 | 15,3 | 165 | 17,3 / 19,4 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.4ft ES TRS PC 3200/840 | 50 | 3190 | 3000 | 18,2 | 165 | 17,9 / 20,0 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.4ft ES TRS PC 4400/840 | 45 | 4380 | 4120 | 24,6 | 167 | 19,0 / 21,1 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.4ft ES TRS PC 6400/840 | 45 | 6220 | 5850 | 34,2 | 171 | 20,3 / 22,3 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.5ft ES TRS PC 3250/840 | 50 | 3310 | 3110 | 18,5 | 168 | 17,3 / 19,4 | 2,0 | 1450 | 970 - 1230 | | |
| NANOTTICA 1.5ft ES TRS PC 4000/840 | 50 | 3940 | 3700 | 22,2 | 167 | 17,9 / 20,0 | 2,0 | 1450 | 970 - 1230 | | |
| NANOTTICA 1.5ft ES TRS PC 5500/840 | 45 | 5560 | 5230 | 30,9 | 169 | 19,1 / 21,2 | 2,0 | 1450 | 970 - 1230 | | |
| NANOTTICA 1.5ft ES TRS PC 8000/840 | 45 | 8170 | 7680 | 44,8 | 171 | 20,5 / 22,5 | 2,0 | 1450 | 970 - 1230 | | |

NANOTTICA ES TRS PC

Non-dimmable driver - plastic clips

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|------------------------------------|--------|--------|--------|--------|--------|--------|
| 103134 | NANOTTICA 1.2ft ES TRS PC 1300/840 | 103145 | 103156 | x | x | x | x |
| 103135 | NANOTTICA 1.2ft ES TRS PC 1600/840 | 103146 | 103157 | x | x | x | x |
| 103136 | NANOTTICA 1.2ft ES TRS PC 2200/840 | 103147 | 103158 | x | x | x | x |
| 103137 | NANOTTICA 1.4ft ES TRS PC 2600/840 | 103148 | 103159 | 103170 | 103178 | 103186 | 103194 |
| 103138 | NANOTTICA 1.4ft ES TRS PC 3200/840 | 103149 | 103160 | 103171 | 103179 | 103187 | 103195 |
| 103139 | NANOTTICA 1.4ft ES TRS PC 4400/840 | 103150 | 103161 | 103172 | 103180 | 103188 | 103196 |
| 103140 | NANOTTICA 1.4ft ES TRS PC 6400/840 | 103151 | 103162 | 103173 | 103181 | 103189 | 103197 |
| 103141 | NANOTTICA 1.5ft ES TRS PC 3250/840 | 103152 | 103163 | 103174 | 103182 | 103190 | 103198 |
| 103142 | NANOTTICA 1.5ft ES TRS PC 4000/840 | 103153 | 103164 | 103175 | 103183 | 103191 | 103199 |
| 103143 | NANOTTICA 1.5ft ES TRS PC 5500/840 | 103154 | 103165 | 103176 | 103184 | 103192 | 103200 |
| 103144 | NANOTTICA 1.5ft ES TRS PC 8000/840 | 103155 | 103166 | 103177 | 103185 | 103193 | 103201 |

NANOTTICA ES TRS PCc

Non-dimmable driver - stainless clips (c)

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|-------------------------------------|--------|--------|--------|--------|--------|--------|
| 103202 | NANOTTICA 1.2ft ES TRS PCc 1300/840 | 103213 | 103224 | x | x | x | x |
| 103203 | NANOTTICA 1.2ft ES TRS PCc 1600/840 | 103214 | 103225 | x | x | x | x |
| 103204 | NANOTTICA 1.2ft ES TRS PCc 2200/840 | 103215 | 103226 | x | x | x | x |
| 103205 | NANOTTICA 1.4ft ES TRS PCc 2600/840 | 103216 | 103227 | 103238 | 103246 | 103254 | 103262 |
| 103206 | NANOTTICA 1.4ft ES TRS PCc 3200/840 | 103217 | 103228 | 103239 | 103247 | 103255 | 103263 |
| 103207 | NANOTTICA 1.4ft ES TRS PCc 4400/840 | 103218 | 103229 | 103240 | 103248 | 103256 | 103264 |
| 103208 | NANOTTICA 1.4ft ES TRS PCc 6400/840 | 103219 | 103230 | 103241 | 103249 | 103257 | 103265 |
| 103209 | NANOTTICA 1.5ft ES TRS PCc 3250/840 | 103220 | 103231 | 103242 | 103250 | 103258 | 103266 |
| 103210 | NANOTTICA 1.5ft ES TRS PCc 4000/840 | 103221 | 103232 | 103243 | 103251 | 103259 | 103267 |
| 103211 | NANOTTICA 1.5ft ES TRS PCc 5500/840 | 103222 | 103233 | 103244 | 103252 | 103260 | 103268 |
| 103212 | NANOTTICA 1.5ft ES TRS PCc 8000/840 | 103223 | 103234 | 103245 | 103253 | 103261 | 103269 |

NANOTTICA ES TRS PC DALI

Digital dimmable driver DALI - plastic clips

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|---|--------|--------|--------|--------|--------|--------|
| 103270 | NANOTTICA 1.2ft ES TRS PC 1300/840 DALI | 103281 | x | x | x | x | x |
| 103271 | NANOTTICA 1.2ft ES TRS PC 1600/840 DALI | 103282 | x | x | x | x | x |
| 103272 | NANOTTICA 1.2ft ES TRS PC 2200/840 DALI | 103283 | x | x | x | x | x |
| 103273 | NANOTTICA 1.4ft ES TRS PC 2600/840 DALI | 103284 | 103295 | 103306 | 103314 | 103322 | 103330 |
| 103274 | NANOTTICA 1.4ft ES TRS PC 3200/840 DALI | 103285 | 103296 | 103307 | 103315 | 103323 | 103331 |
| 103275 | NANOTTICA 1.4ft ES TRS PC 4400/840 DALI | 103286 | 103297 | 103308 | 103316 | 103324 | 103332 |
| 103276 | NANOTTICA 1.4ft ES TRS PC 6400/840 DALI | 103287 | 103298 | 103309 | 103317 | 103325 | 103333 |
| 103277 | NANOTTICA 1.5ft ES TRS PC 3250/840 DALI | 103288 | 103299 | 103310 | 103318 | 103326 | 103334 |
| 103278 | NANOTTICA 1.5ft ES TRS PC 4000/840 DALI | 103289 | 103300 | 103311 | 103319 | 103327 | 103335 |
| 103279 | NANOTTICA 1.5ft ES TRS PC 5500/840 DALI | 103290 | 103301 | 103312 | 103320 | 103328 | 103336 |
| 103280 | NANOTTICA 1.5ft ES TRS PC 8000/840 DALI | 103291 | 103302 | 103313 | 103321 | 103329 | 103337 |

NANOTTICA ES TRS PCc DALI

Digital dimmable driver DALI - stainless clips [c]

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--|--------|--------|--------|--------|--------|--------|
| 103338 | NANOTTICA 1.2ft ES TRS PCc 1300/840 DALI | 103349 | x | x | x | x | x |
| 103339 | NANOTTICA 1.2ft ES TRS PCc 1600/840 DALI | 103350 | x | x | x | x | x |
| 103340 | NANOTTICA 1.2ft ES TRS PCc 2200/840 DALI | 103351 | x | x | x | x | x |
| 103341 | NANOTTICA 1.4ft ES TRS PCc 2600/840 DALI | 103352 | 103363 | 103374 | 103382 | 103390 | 103398 |
| 103342 | NANOTTICA 1.4ft ES TRS PCc 3200/840 DALI | 103353 | 103364 | 103375 | 103383 | 103391 | 103399 |
| 103343 | NANOTTICA 1.4ft ES TRS PCc 4400/840 DALI | 103354 | 103365 | 103376 | 103384 | 103392 | 103400 |
| 103344 | NANOTTICA 1.4ft ES TRS PCc 6400/840 DALI | 103355 | 103366 | 103377 | 103385 | 103393 | 103401 |
| 103345 | NANOTTICA 1.5ft ES TRS PCc 3250/840 DALI | 103356 | 103367 | 103378 | 103386 | 103394 | 103402 |
| 103346 | NANOTTICA 1.5ft ES TRS PCc 4000/840 DALI | 103357 | 103368 | 103379 | 103387 | 103395 | 103403 |
| 103347 | NANOTTICA 1.5ft ES TRS PCc 5500/840 DALI | 103358 | 103369 | 103380 | 103388 | 103396 | 103404 |
| 103348 | NANOTTICA 1.5ft ES TRS PCc 8000/840 DALI | 103359 | 103370 | 103381 | 103389 | 103397 | 103405 |

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



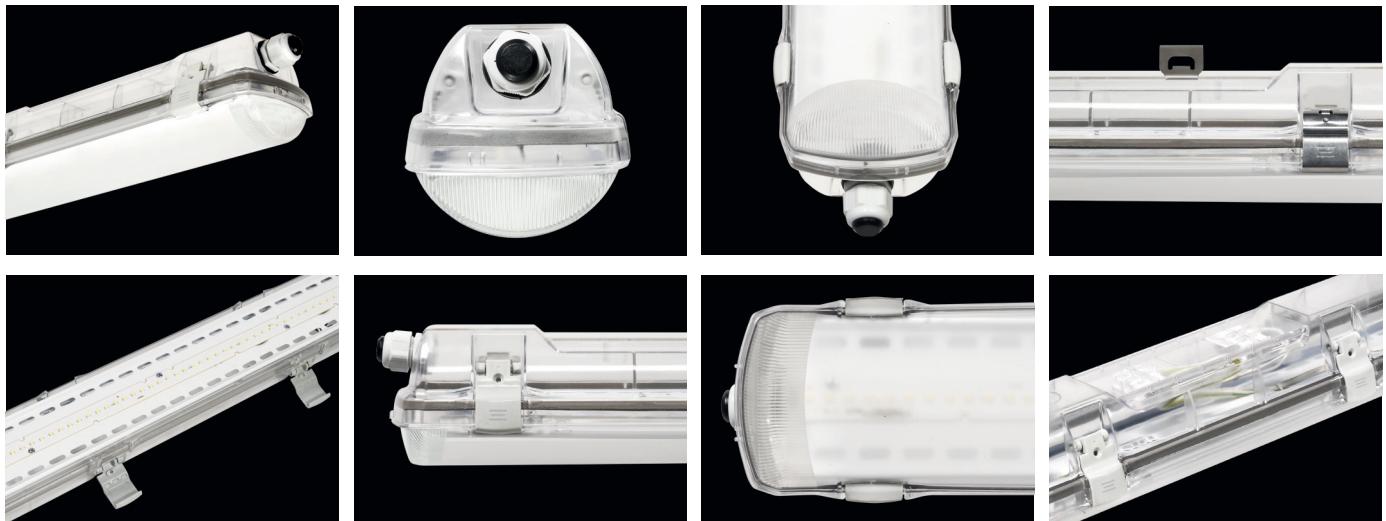
VARIABLE INSTALLATION PITCH

NANOTTICA ES TRS



LIGHT FITTING DETAILED VIEW

NANOTTICA ES TRS



NANOTTICA ES



... energy saver, exceptional efficiency,
ceiling height from 3.5 to 8 m, impact resistant.

USE

Compared to its basic version, Nanottica ES boasts **lower energy consumption**, which translates into **considerably higher luminous efficacy (lm/W)**.

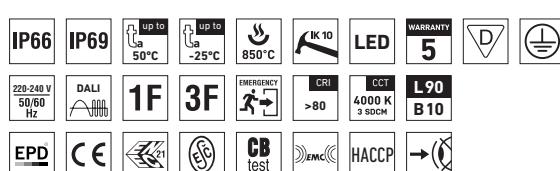
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

Its **standard beam angle** makes it a perfect choice for premises with an optimum luminaire installation height of **3.5 to 8 m**. It is designed for indoor spaces, **industrial premises, agricultural buildings, warehouses as well as sports facilities, transport hubs, car parks and garages, workshops and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Maximum light fitting efficiency: **171 lm/W**
- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 19.2 to 23.6**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^\circ\text{C}$ to **$t_a = 50^\circ\text{C}$**
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **EPD, ESC, ENEC, CB, HACCP**



NANOTTICA ES PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-25°C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **171 lm/W**
- **UGR ranging from 19.2 to 23.6**
- Optimum luminaire installation height **from 3.5 to 8 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nano optics** (high mechanical resistance, UV stability)

- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|-------------------------|------------|
| | | | | | | | | variable mounting pitch | 98 |
| <i>Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffuser with nano optics (standard beam angle), transparent polycarbonate</i> | | | | | | | | | |
| NANOTTICA 1.2ft ES PC 1300/840 | 50 | 1350 | 1270 | 7,6 | 167 | 19,2 / 20,1 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.2ft ES PC 1600/840 | 50 | 1600 | 1500 | 9,1 | 165 | 19,8 / 20,7 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.2ft ES PC 2200/840 | 45 | 2200 | 2070 | 12,3 | 168 | 20,9 / 21,8 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.4ft ES PC 2600/840 | 50 | 2690 | 2530 | 15,3 | 165 | 19,4 / 20,4 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft ES PC 3200/840 | 50 | 3190 | 3000 | 18,2 | 165 | 19,9 / 21,0 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft ES PC 4400/840 | 45 | 4380 | 4120 | 24,6 | 167 | 21,0 / 22,1 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft ES PC 6400/840 | 45 | 6220 | 5850 | 34,2 | 171 | 22,3 / 23,4 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.5ft ES PC 3250/840 | 50 | 3310 | 3110 | 18,5 | 168 | 19,3 / 20,4 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft ES PC 4000/840 | 50 | 3940 | 3700 | 22,2 | 167 | 19,9 / 21,1 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft ES PC 5500/840 | 45 | 5560 | 5230 | 30,9 | 169 | 21,1 / 22,3 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft ES PC 8000/840 | 45 | 8170 | 7680 | 44,8 | 171 | 22,5 / 23,6 | 2,0 | 1450 | 970 - 1230 |

NANOTTICA ES PC

Non-dimmable driver - plastic clips

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------------------------------|--------|--------|--------|--------|--------|--------|
| 102550 | NANOTTICA 1.2ft ES PC 1300/840 | 102561 | 102572 | x | x | x | x |
| 102551 | NANOTTICA 1.2ft ES PC 1600/840 | 102562 | 102573 | x | x | x | x |
| 102552 | NANOTTICA 1.2ft ES PC 2200/840 | 102563 | 102574 | x | x | x | x |
| 102553 | NANOTTICA 1.4ft ES PC 2600/840 | 102564 | 102575 | 102586 | 102594 | 102602 | 102610 |
| 102554 | NANOTTICA 1.4ft ES PC 3200/840 | 102565 | 102576 | 102587 | 102595 | 102603 | 102611 |
| 102555 | NANOTTICA 1.4ft ES PC 4400/840 | 102566 | 102577 | 102588 | 102596 | 102604 | 102612 |
| 102556 | NANOTTICA 1.4ft ES PC 6400/840 | 102567 | 102578 | 102589 | 102597 | 102605 | 102613 |
| 102557 | NANOTTICA 1.5ft ES PC 3250/840 | 102568 | 102579 | 102590 | 102598 | 102606 | 102614 |
| 102558 | NANOTTICA 1.5ft ES PC 4000/840 | 102569 | 102580 | 102591 | 102599 | 102607 | 102615 |
| 102559 | NANOTTICA 1.5ft ES PC 5500/840 | 102570 | 102581 | 102592 | 102600 | 102608 | 102616 |
| 102560 | NANOTTICA 1.5ft ES PC 8000/840 | 102571 | 102582 | 102593 | 102601 | 102609 | 102617 |

NANOTTICA ES PCc

Non-dimmable driver - stainless clips (c)

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|---------------------------------|--------|--------|--------|--------|--------|--------|
| 102618 | NANOTTICA 1.2ft ES PCc 1300/840 | 102629 | 102640 | x | x | x | x |
| 102619 | NANOTTICA 1.2ft ES PCc 1600/840 | 102630 | 102641 | x | x | x | x |
| 102620 | NANOTTICA 1.2ft ES PCc 2200/840 | 102631 | 102642 | x | x | x | x |
| 102621 | NANOTTICA 1.4ft ES PCc 2600/840 | 102632 | 102643 | 102654 | 102662 | 102670 | 102678 |
| 102622 | NANOTTICA 1.4ft ES PCc 3200/840 | 102633 | 102644 | 102655 | 102663 | 102671 | 102679 |
| 102623 | NANOTTICA 1.4ft ES PCc 4400/840 | 102634 | 102645 | 102656 | 102664 | 102672 | 102680 |
| 102624 | NANOTTICA 1.4ft ES PCc 6400/840 | 102635 | 102646 | 102657 | 102665 | 102673 | 102681 |
| 102625 | NANOTTICA 1.5ft ES PCc 3250/840 | 102636 | 102647 | 102658 | 102666 | 102674 | 102682 |
| 102626 | NANOTTICA 1.5ft ES PCc 4000/840 | 102637 | 102648 | 102659 | 102667 | 102675 | 102683 |
| 102627 | NANOTTICA 1.5ft ES PCc 5500/840 | 102638 | 102649 | 102660 | 102668 | 102676 | 102684 |
| 102628 | NANOTTICA 1.5ft ES PCc 8000/840 | 102639 | 102650 | 102661 | 102669 | 102677 | 102685 |

NANOTTICA ES PC DALI

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|-------------------------------------|--------|--------|--------|--------|--------|--------|
| 102686 | NANOTTICA 1.2ft ES PC 1300/840 DALI | 102697 | x | x | x | x | x |
| 102687 | NANOTTICA 1.2ft ES PC 1600/840 DALI | 102698 | x | x | x | x | x |
| 102688 | NANOTTICA 1.2ft ES PC 2200/840 DALI | 102699 | x | x | x | x | x |
| 102689 | NANOTTICA 1.4ft ES PC 2600/840 DALI | 102700 | 102711 | 102722 | 102730 | 102738 | 102746 |
| 102690 | NANOTTICA 1.4ft ES PC 3200/840 DALI | 102701 | 102712 | 102723 | 102731 | 102739 | 102747 |
| 102691 | NANOTTICA 1.4ft ES PC 4400/840 DALI | 102702 | 102713 | 102724 | 102732 | 102740 | 102748 |
| 102692 | NANOTTICA 1.4ft ES PC 6400/840 DALI | 102703 | 102714 | 102725 | 102733 | 102741 | 102749 |
| 102693 | NANOTTICA 1.5ft ES PC 3250/840 DALI | 102704 | 102715 | 102726 | 102734 | 102742 | 102750 |
| 102694 | NANOTTICA 1.5ft ES PC 4000/840 DALI | 102705 | 102716 | 102727 | 102735 | 102743 | 102751 |
| 102695 | NANOTTICA 1.5ft ES PC 5500/840 DALI | 102706 | 102717 | 102728 | 102736 | 102744 | 102752 |
| 102696 | NANOTTICA 1.5ft ES PC 8000/840 DALI | 102707 | 102718 | 102729 | 102737 | 102745 | 102753 |

NANOTTICA ES PCc DALI

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------------------------------------|--------|--------|--------|--------|--------|--------|
| 102754 | NANOTTICA 1.2ft ES PCc 1300/840 DALI | 102765 | x | x | x | x | x |
| 102755 | NANOTTICA 1.2ft ES PCc 1600/840 DALI | 102766 | x | x | x | x | x |
| 102756 | NANOTTICA 1.2ft ES PCc 2200/840 DALI | 102767 | x | x | x | x | x |
| 102757 | NANOTTICA 1.4ft ES PCc 2600/840 DALI | 102768 | 102779 | 102790 | 102798 | 102806 | 102814 |
| 102758 | NANOTTICA 1.4ft ES PCc 3200/840 DALI | 102769 | 102780 | 102791 | 102799 | 102807 | 102815 |
| 102759 | NANOTTICA 1.4ft ES PCc 4400/840 DALI | 102770 | 102781 | 102792 | 102800 | 102808 | 102816 |
| 102760 | NANOTTICA 1.4ft ES PCc 6400/840 DALI | 102771 | 102782 | 102793 | 102801 | 102809 | 102817 |
| 102761 | NANOTTICA 1.5ft ES PCc 3250/840 DALI | 102772 | 102783 | 102794 | 102802 | 102810 | 102818 |
| 102762 | NANOTTICA 1.5ft ES PCc 4000/840 DALI | 102773 | 102784 | 102795 | 102803 | 102811 | 102819 |
| 102763 | NANOTTICA 1.5ft ES PCc 5500/840 DALI | 102774 | 102785 | 102796 | 102804 | 102812 | 102820 |
| 102764 | NANOTTICA 1.5ft ES PCc 8000/840 DALI | 102775 | 102786 | 102797 | 102805 | 102813 | 102821 |

LEGEND

| | | | |
|---------------|--|--------------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire | DALI | version with digital dimmable driver DALI |
| 3F | 3-phase 5 core through-wiring in the luminaire | DALI 1F | 1-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination | DALI 3F | 3-phase 7 core through-wiring in the luminaire |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination | DALI 3F Mxh | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) | | |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



VARIABLE INSTALLATION PITCH

NANOTTICA ES PC



LIGHT FITTING DETAILED VIEW

NANOTTICA ES PC



NANOTTICA TRS



... exceptionally low UGR, ceiling height from 3.5 to 8 m, impact resistant.

USE

Compared to its basic version, **fully transparent** Nanottica TRS PC boasts considerably **lower UGR values**.

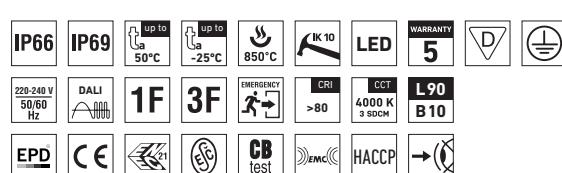
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

Its **standard beam angle** makes it a perfect choice for premises with an optimum luminaire installation height of **3.5 to 8 m**. It is designed for indoor spaces, **industrial premises, agricultural buildings, warehouses as well as sports facilities, transport hubs, car parks and garages, workshops and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Maximum light fitting efficiency: **165 lm/W**
- Patented optics ensures absolute control over light beam distribution
- Exceptionally low UGR values **range from 17,0 to 22,4**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 50^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **EPD, ESČ, ENEC, CB, HACCP**



NANOTTICA TRS PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **165 lm/W**
- **UGR ranging from 17,0 to 22,4**
- Optimum luminaire installation height **from 3,5 to 8 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nano optics** (high mechanical resistance, UV stability)

- Body: **transparent PC** (high mechanical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|------------------|------------|
| | | | | | | | | X = 4 H, Y = 8 H | S = 0.25 H |
| Up to ambient temperature ta = 50 °C - body transparent polycarbonate - diffusor with nano optics (standard beam angle), transparent polycarbonate | | | | | | | | | |
| NANOTTICA 1.2ft TRS PC 1300/840 | 50 | 1310 | 1230 | 8,2 | 150 | 17.0 / 18.8 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.2ft TRS PC 1600/840 | 50 | 1560 | 1470 | 9,8 | 150 | 17.6 / 19.4 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.2ft TRS PC 2200/840 | 45 | 2140 | 2010 | 13,2 | 152 | 18.7 / 20.5 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.4ft TRS PC 2600/840 | 50 | 2600 | 2440 | 16,1 | 152 | 17.2 / 19.2 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft TRS PC 3200/840 | 50 | 3100 | 2910 | 19,1 | 152 | 17.8 / 19.8 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft TRS PC 4400/840 | 45 | 4300 | 4040 | 26,0 | 155 | 19.0 / 21.0 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft TRS PC 6400/840 | 45 | 6120 | 5750 | 36,1 | 159 | 20.2 / 22.2 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.5ft TRS PC 3250/840 | 50 | 3240 | 3050 | 19,5 | 156 | 17.3 / 19.3 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft TRS PC 4000/840 | 50 | 3850 | 3620 | 23,3 | 155 | 17.9 / 19.9 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft TRS PC 5500/840 | 45 | 5340 | 5020 | 31,9 | 157 | 19.0 / 21.1 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft TRS PC 8000/840 | 45 | 7780 | 7310 | 44,3 | 165 | 20.3 / 22.4 | 2,0 | 1450 | 970 - 1230 |

NANOTTICA TRS PC

| Code | Type |
|--------|---------------------------------|
| 103118 | NANOTTICA 1.2ft TRS PC 1300/840 |
| 103119 | NANOTTICA 1.2ft TRS PC 1600/840 |
| 103120 | NANOTTICA 1.2ft TRS PC 2200/840 |
| 101544 | NANOTTICA 1.4ft TRS PC 2600/840 |
| 101545 | NANOTTICA 1.4ft TRS PC 3200/840 |
| 101546 | NANOTTICA 1.4ft TRS PC 4400/840 |
| 101547 | NANOTTICA 1.4ft TRS PC 6400/840 |
| 101548 | NANOTTICA 1.5ft TRS PC 3250/840 |
| 101549 | NANOTTICA 1.5ft TRS PC 4000/840 |
| 101550 | NANOTTICA 1.5ft TRS PC 5500/840 |
| 101551 | NANOTTICA 1.5ft TRS PC 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 103121 | 101563 | x | x | x | x |
| 101553 | 101564 | x | x | x | x |
| 101554 | 101565 | x | x | x | x |
| 101555 | 101566 | 101577 | 101585 | 101593 | 101601 |
| 101556 | 101567 | 101578 | 101586 | 101594 | 101602 |
| 101557 | 101568 | 101579 | 101587 | 101595 | 101603 |
| 101558 | 101569 | 101580 | 101588 | 101596 | 101604 |
| 101559 | 101570 | 101581 | 101589 | 101597 | 101605 |
| 101560 | 101571 | 101582 | 101590 | 101598 | 101606 |
| 101561 | 101572 | 101583 | 101591 | 101599 | 101607 |
| 101562 | 101573 | 101584 | 101592 | 101600 | 101608 |

NANOTTICA TRS PCc

| Code | Type |
|--------|----------------------------------|
| 101609 | NANOTTICA 1.2ft TRS PCc 1300/840 |
| 101610 | NANOTTICA 1.2ft TRS PCc 1600/840 |
| 101611 | NANOTTICA 1.2ft TRS PCc 2200/840 |
| 101612 | NANOTTICA 1.4ft TRS PCc 2600/840 |
| 101613 | NANOTTICA 1.4ft TRS PCc 3200/840 |
| 101614 | NANOTTICA 1.4ft TRS PCc 4400/840 |
| 101615 | NANOTTICA 1.4ft TRS PCc 6400/840 |
| 101616 | NANOTTICA 1.5ft TRS PCc 3250/840 |
| 101617 | NANOTTICA 1.5ft TRS PCc 4000/840 |
| 101618 | NANOTTICA 1.5ft TRS PCc 5500/840 |
| 101619 | NANOTTICA 1.5ft TRS PCc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 101620 | 101631 | x | x | x | x |
| 101621 | 101632 | x | x | x | x |
| 101622 | 101633 | x | x | x | x |
| 101623 | 101634 | 101645 | 101653 | 101661 | x |
| 101624 | 101635 | 101646 | 101654 | 101662 | 101670 |
| 101625 | 101636 | 101647 | 101655 | 101663 | 101671 |
| 101626 | 101637 | 101648 | 101656 | 101664 | 101672 |
| 101627 | 101638 | 101649 | 101657 | 101665 | 101673 |
| 101628 | 101639 | 101650 | 101658 | 101666 | 101674 |
| 101629 | 101640 | 101651 | 101659 | 101667 | 101675 |
| 101630 | 101641 | 101652 | 101660 | 101668 | 101676 |

NANOTTICA TRS PC DALI

| Code | Type |
|--------|--------------------------------------|
| 101677 | NANOTTICA 1.2ft TRS PC 1300/840 DALI |
| 101678 | NANOTTICA 1.2ft TRS PC 1600/840 DALI |
| 101679 | NANOTTICA 1.2ft TRS PC 2200/840 DALI |
| 101680 | NANOTTICA 1.4ft TRS PC 2600/840 DALI |
| 101681 | NANOTTICA 1.4ft TRS PC 3200/840 DALI |
| 101682 | NANOTTICA 1.4ft TRS PC 4400/840 DALI |
| 101683 | NANOTTICA 1.4ft TRS PC 6400/840 DALI |
| 101684 | NANOTTICA 1.5ft TRS PC 3250/840 DALI |
| 101685 | NANOTTICA 1.5ft TRS PC 4000/840 DALI |
| 101686 | NANOTTICA 1.5ft TRS PC 5500/840 DALI |
| 101687 | NANOTTICA 1.5ft TRS PC 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 101688 | x | x | x | x | x |
| 101689 | x | x | x | x | x |
| 101690 | x | x | x | x | x |
| 101691 | 101702 | 101713 | 101721 | 101729 | 101737 |
| 101692 | 101703 | 101714 | 101722 | 101730 | 101738 |
| 101693 | 101704 | 101715 | 101723 | 101731 | 101739 |
| 101694 | 101705 | 101716 | 101724 | 101732 | 101740 |
| 101695 | 101706 | 101717 | 101725 | 101733 | 101741 |
| 101696 | 101707 | 101718 | 101726 | 101734 | 101742 |
| 101697 | 101708 | 101719 | 101727 | 101735 | 101743 |
| 101698 | 101709 | 101720 | 101728 | 101736 | 101744 |

NANOTTICA TRS PCc DALI

| Code | Type |
|--------|---------------------------------------|
| 101745 | NANOTTICA 1.2ft TRS PCc 1300/840 DALI |
| 101746 | NANOTTICA 1.2ft TRS PCc 1600/840 DALI |
| 101747 | NANOTTICA 1.2ft TRS PCc 2200/840 DALI |
| 101748 | NANOTTICA 1.4ft TRS PCc 2600/840 DALI |
| 101749 | NANOTTICA 1.4ft TRS PCc 3200/840 DALI |
| 101750 | NANOTTICA 1.4ft TRS PCc 4400/840 DALI |
| 101751 | NANOTTICA 1.4ft TRS PCc 6400/840 DALI |
| 101752 | NANOTTICA 1.5ft TRS PCc 3250/840 DALI |
| 101753 | NANOTTICA 1.5ft TRS PCc 4000/840 DALI |
| 101754 | NANOTTICA 1.5ft TRS PCc 5500/840 DALI |
| 101755 | NANOTTICA 1.5ft TRS PCc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 101756 | x | x | x | x | x |
| 101757 | x | x | x | x | x |
| 101758 | x | x | x | x | x |
| 101759 | 101770 | 101781 | 101789 | 101797 | 101805 |
| 101760 | 101771 | 101782 | 101790 | 101798 | 101806 |
| 101761 | 101772 | 101783 | 101791 | 101799 | 101807 |
| 101762 | 101773 | 101784 | 101792 | 101800 | 101808 |
| 101763 | 101774 | 101785 | 101793 | 101801 | 101809 |
| 101764 | 101775 | 101786 | 101794 | 101802 | 101810 |
| 101765 | 101776 | 101787 | 101795 | 101803 | 101811 |
| 101766 | 101777 | 101788 | 101796 | 101804 | 101812 |

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

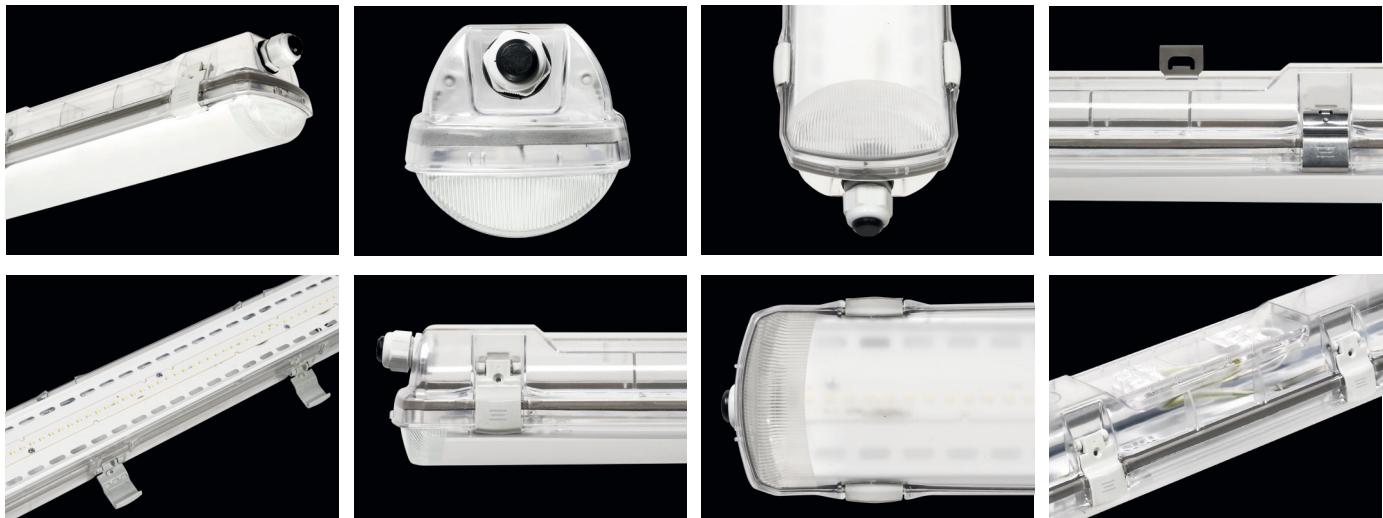
- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**VARIABLE INSTALLATION PITCH**

NANOTTICA TRS

**LIGHT FITTING DETAILED VIEW**

NANOTTICA TRS



NANOTTICA



... ceiling height from 3.5 to 8 m, impact resistant.

USE

The fixture boasts a **low unified glare rating with UGR values** its patented nano optics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

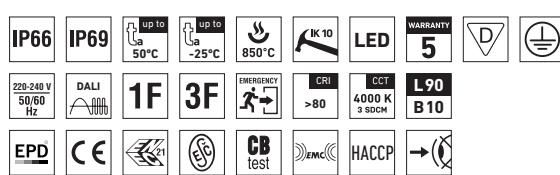
Its **standard beam angle** makes it a perfect choice for premises with an optimum luminaire installation height of **3.5 to 8 m**. It is designed for indoor spaces, **industrial premises, agricultural buildings, warehouses as well as sports facilities, transport hubs, car parks and garages, workshops and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 19,1 to 23,4**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to **$t_a = 50^{\circ}\text{C}$**
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- Optional throughwiring (up to 7 wires inside the light fitting)

- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **EPD, ESC, ENEC, CB, HACCP**



NANOTTICA PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **165 lm/W**
- UGR ranging from 19,1 to 23,4**
- Optimum luminaire installation height **from 3,5 to 8 m**
- CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nano optics** (high mechanical resistance, UV stability)

- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffusor with nano optics (standard beam angle), transparent polycarbonate | | | | | | | | | |
| NANOTTICA 1.2ft PC 1300/840 | 50 | 1310 | 1230 | 8,2 | 150 | 19.1 / 20.0 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.2ft PC 1600/840 | 50 | 1560 | 1470 | 9,8 | 150 | 19.7 / 20.7 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.2ft PC 2200/840 | 45 | 2140 | 2010 | 13,2 | 152 | 20.8 / 21.7 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.4ft PC 2600/840 | 50 | 2600 | 2440 | 16,1 | 152 | 19.2 / 20.3 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft PC 3200/840 | 50 | 3100 | 2910 | 19,1 | 152 | 19.8 / 20.9 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft PC 4400/840 | 45 | 4300 | 4040 | 26,0 | 155 | 21.0 / 22.1 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft PC 6400/840 | 45 | 6120 | 5750 | 36,1 | 159 | 22.2 / 23.3 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.5ft PC 3250/840 | 50 | 3240 | 3050 | 19,5 | 156 | 19.3 / 20.4 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft PC 4000/840 | 50 | 3850 | 3620 | 23,3 | 155 | 19.9 / 21.0 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft PC 5500/840 | 45 | 5340 | 5020 | 31,9 | 157 | 21.0 / 22.1 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft PC 8000/840 | 45 | 7780 | 7310 | 44,3 | 165 | 22.3 / 23.4 | 2,0 | 1450 | 970 - 1230 |

NANOTTICA PC

| Code | Type |
|--------|-----------------------------|
| 100001 | NANOTTICA 1.2ft PC 1300/840 |
| 100002 | NANOTTICA 1.2ft PC 1600/840 |
| 100003 | NANOTTICA 1.2ft PC 2200/840 |
| 100004 | NANOTTICA 1.4ft PC 2600/840 |
| 100005 | NANOTTICA 1.4ft PC 3200/840 |
| 100006 | NANOTTICA 1.4ft PC 4400/840 |
| 100007 | NANOTTICA 1.4ft PC 6400/840 |
| 100008 | NANOTTICA 1.5ft PC 3250/840 |
| 100009 | NANOTTICA 1.5ft PC 4000/840 |
| 100010 | NANOTTICA 1.5ft PC 5500/840 |
| 100011 | NANOTTICA 1.5ft PC 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100012 | 100023 | x | x | x | x |
| 100013 | 100024 | x | x | x | x |
| 100014 | 100025 | x | x | x | x |
| 100015 | 100026 | 100037 | 100045 | 100053 | 100061 |
| 100016 | 100027 | 100038 | 100046 | 100054 | 100062 |
| 100017 | 100028 | 100039 | 100047 | 100055 | 100063 |
| 100018 | 100029 | 100040 | 100048 | 100056 | 100064 |
| 100019 | 100030 | 100041 | 100049 | 100057 | 100065 |
| 100020 | 100031 | 100042 | 100050 | 100058 | 100066 |
| 100021 | 100032 | 100043 | 100051 | 100059 | 100067 |
| 100022 | 100033 | 100044 | 100052 | 100060 | 100068 |

NANOTTICA PCc

| Code | Type |
|--------|------------------------------|
| 100069 | NANOTTICA 1.2ft PCc 1300/840 |
| 100070 | NANOTTICA 1.2ft PCc 1600/840 |
| 100071 | NANOTTICA 1.2ft PCc 2200/840 |
| 100072 | NANOTTICA 1.4ft PCc 2600/840 |
| 100073 | NANOTTICA 1.4ft PCc 3200/840 |
| 100074 | NANOTTICA 1.4ft PCc 4400/840 |
| 100075 | NANOTTICA 1.4ft PCc 6400/840 |
| 100076 | NANOTTICA 1.5ft PCc 3250/840 |
| 100077 | NANOTTICA 1.5ft PCc 4000/840 |
| 100078 | NANOTTICA 1.5ft PCc 5500/840 |
| 100079 | NANOTTICA 1.5ft PCc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100080 | 100091 | x | x | x | x |
| 100081 | 100092 | x | x | x | x |
| 100082 | 100093 | x | x | x | x |
| 100083 | 100094 | 100105 | 100113 | 100121 | 100129 |
| 100084 | 100095 | 100106 | 100114 | 100122 | 100130 |
| 100085 | 100096 | 100107 | 100115 | 100123 | 100131 |
| 100086 | 100097 | 100108 | 100116 | 100124 | 100132 |
| 100087 | 100098 | 100109 | 100117 | 100125 | 100133 |
| 100088 | 100099 | 100110 | 100118 | 100126 | 100134 |
| 100089 | 100100 | 100111 | 100119 | 100127 | 100135 |
| 100090 | 100101 | 100112 | 100120 | 100128 | 100136 |

NANOTTICA PC DALI

| Code | Type |
|--------|----------------------------------|
| 100137 | NANOTTICA 1.2ft PC 1300/840 DALI |
| 100138 | NANOTTICA 1.2ft PC 1600/840 DALI |
| 100139 | NANOTTICA 1.2ft PC 2200/840 DALI |
| 100140 | NANOTTICA 1.4ft PC 2600/840 DALI |
| 100141 | NANOTTICA 1.4ft PC 3200/840 DALI |
| 100142 | NANOTTICA 1.4ft PC 4400/840 DALI |
| 100143 | NANOTTICA 1.4ft PC 6400/840 DALI |
| 100144 | NANOTTICA 1.5ft PC 3250/840 DALI |
| 100145 | NANOTTICA 1.5ft PC 4000/840 DALI |
| 100146 | NANOTTICA 1.5ft PC 5500/840 DALI |
| 100147 | NANOTTICA 1.5ft PC 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100148 | x | x | x | x | x |
| 100149 | x | x | x | x | x |
| 100150 | x | x | x | x | x |
| 100151 | 100162 | 100173 | 100181 | 100189 | 100197 |
| 100152 | 100163 | 100174 | 100182 | 100190 | 100198 |
| 100153 | 100164 | 100175 | 100183 | 100191 | 100199 |
| 100154 | 100165 | 100176 | 100184 | 100192 | 100200 |
| 100155 | 100166 | 100177 | 100185 | 100193 | 100201 |
| 100156 | 100167 | 100178 | 100186 | 100194 | 100202 |
| 100157 | 100168 | 100179 | 100187 | 100195 | 100203 |
| 100158 | 100169 | 100180 | 100188 | 100196 | 100204 |

NANOTTICA PCc DALI

| Code | Type |
|--------|-----------------------------------|
| 100205 | NANOTTICA 1.2ft PCc 1300/840 DALI |
| 100206 | NANOTTICA 1.2ft PCc 1600/840 DALI |
| 100207 | NANOTTICA 1.2ft PCc 2200/840 DALI |
| 100208 | NANOTTICA 1.4ft PCc 2600/840 DALI |
| 100209 | NANOTTICA 1.4ft PCc 3200/840 DALI |
| 100210 | NANOTTICA 1.4ft PCc 4400/840 DALI |
| 100211 | NANOTTICA 1.4ft PCc 6400/840 DALI |
| 100212 | NANOTTICA 1.5ft PCc 3250/840 DALI |
| 100213 | NANOTTICA 1.5ft PCc 4000/840 DALI |
| 100214 | NANOTTICA 1.5ft PCc 5500/840 DALI |
| 100215 | NANOTTICA 1.5ft PCc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100216 | x | x | x | x | x |
| 100217 | x | x | x | x | x |
| 100218 | x | x | x | x | x |
| 100219 | 100230 | 100241 | 100249 | 100257 | 100265 |
| 100220 | 100231 | 100242 | 100250 | 100258 | 100266 |
| 100221 | 100232 | 100243 | 100251 | 100259 | 100267 |
| 100222 | 100233 | 100244 | 100252 | 100260 | 100268 |
| 100223 | 100234 | 100245 | 100253 | 100261 | 100269 |
| 100224 | 100235 | 100246 | 100254 | 100262 | 100270 |
| 100225 | 100236 | 100247 | 100255 | 100263 | 100271 |
| 100226 | 100237 | 100248 | 100256 | 100264 | 100272 |

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



VARIABLE INSTALLATION PITCH

NANOTTICA PC



LIGHT FITTING DETAILED VIEW

NANOTTICA PC



NANOTTICA NB



... ceiling height from 7.5 to 12 m, impact resistant.

USE

The fixture boasts a **low unified glare rating with UGR values** its patented nano optics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

The luminaire's **narrow-beam angle** makes it suitable for premises with an optimum luminaire installation height of **7.5 to 12 m**.

It is designed for indoor spaces, **walls and large corridors in high industrial and agricultural buildings as well as in warehouses and sports facilities**. It is also a great choice for **warehouse aisles and roofed sports halls**. IP69-rated and HACCP-compliant, the fitting's design also makes it a perfect choice for the food industry.

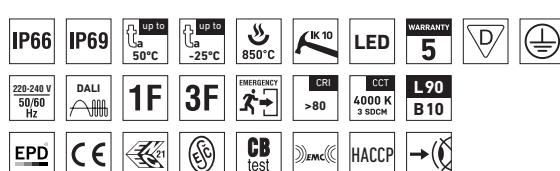
Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 21,6 to 25**
- Narrow Beam angle (NB), optimum luminaire installation height **from 7.5 to 12 m**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 45^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **EPD, ESČ, ENEC, CB, HACCP**



NANOTTICA NB PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 45 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **160 lm/W**
- UGR ranging from 21,6 to 25**
- Optimum luminaire installation height **from 7.5 to 12 m**
- CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nanooptics Narrow Beam** (high mechanical resistance, UV stability)

- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 45 °C - body: grey polycarbonate - diffusor with nanooptics NB (narrow beam angle), transparent polycarbonate | | | | | | | | | |
| NANOTTICA 1.4ft NB PC 4400/840 | 45 | 4300 | 3910 | 26,0 | 150 | 23.7 / 21.6 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft NB PC 6400/840 | 45 | 6120 | 5570 | 36,1 | 154 | 24.9 / 22.8 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.5ft NB PC 5500/840 | 45 | 5340 | 4860 | 31,9 | 152 | 23.7 / 21.6 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft NB PC 8000/840 | 45 | 7780 | 7080 | 44,3 | 160 | 25.0 / 22.9 | 2,0 | 1450 | 970 - 1230 |

NANOTTICA NB PC

| Code | Type |
|--------|--------------------------------|
| 100273 | NANOTTICA 1.4ft NB PC 4400/840 |
| 100274 | NANOTTICA 1.4ft NB PC 6400/840 |
| 100275 | NANOTTICA 1.5ft NB PC 5500/840 |
| 100276 | NANOTTICA 1.5ft NB PC 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100277 | 100281 | 100285 | 100289 | 100293 | 100297 |
| 100278 | 100282 | 100286 | 100290 | 100294 | 100298 |
| 100279 | 100283 | 100287 | 100291 | 100295 | 100299 |
| 100280 | 100284 | 100288 | 100292 | 100296 | 100300 |

NANOTTICA NB PCc

| Code | Type |
|--------|---------------------------------|
| 100301 | NANOTTICA 1.4ft NB PCc 4400/840 |
| 100302 | NANOTTICA 1.4ft NB PCc 6400/840 |
| 100303 | NANOTTICA 1.5ft NB PCc 5500/840 |
| 100304 | NANOTTICA 1.5ft NB PCc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100305 | 100309 | 100313 | 100317 | 100321 | 100325 |
| 100306 | 100310 | 100314 | 100318 | 100322 | 100326 |
| 100307 | 100311 | 100315 | 100319 | 100323 | 100327 |
| 100308 | 100312 | 100316 | 100320 | 100324 | 100328 |

NANOTTICA NB PC DALI

| Code | Type |
|--------|-------------------------------------|
| 100329 | NANOTTICA 1.4ft NB PC 4400/840 DALI |
| 100330 | NANOTTICA 1.4ft NB PC 6400/840 DALI |
| 100331 | NANOTTICA 1.5ft NB PC 5500/840 DALI |
| 100332 | NANOTTICA 1.5ft NB PC 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100333 | 100337 | 100341 | 100345 | 100349 | 100353 |
| 100334 | 100338 | 100342 | 100346 | 100350 | 100354 |
| 100335 | 100339 | 100343 | 100347 | 100351 | 100355 |
| 100336 | 100340 | 100344 | 100348 | 100352 | 100356 |

NANOTTICA NB PCc DALI

| Code | Type |
|--------|--------------------------------------|
| 100357 | NANOTTICA 1.4ft NB PCc 4400/840 DALI |
| 100358 | NANOTTICA 1.4ft NB PCc 6400/840 DALI |
| 100359 | NANOTTICA 1.5ft NB PCc 5500/840 DALI |
| 100360 | NANOTTICA 1.5ft NB PCc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100361 | 100365 | 100369 | 100373 | 100377 | 100381 |
| 100362 | 100366 | 100370 | 100374 | 100378 | 100382 |
| 100363 | 100367 | 100371 | 100375 | 100379 | 100383 |
| 100364 | 100368 | 100372 | 100376 | 100380 | 100384 |

LEGEND

| | | | |
|---------------|---|--------------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire | DALI | version with digital dimmable driver DALI |
| 3F | 3-phase 5 core through-wiring in the luminaire | DALI 1F | 1-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination | DALI 3F | 3-phase 7 core through-wiring in the luminaire |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination | DALI 3F Mxh | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire | | |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



VARIABLE INSTALLATION PITCH

NANOTTICA NB PC



LIGHT FITTING DETAILED VIEW

NANOTTICA NB PC





NANOTTICA WB



... ceiling height from 2.5 to 4 m, impact resistant.

USE

The fixture boasts a **low unified glare rating with UGR values** its patented nano optics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

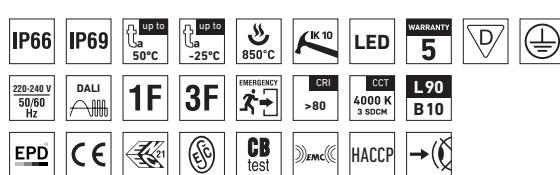
The fitting's **wide beam angle** makes it a great choice for premises with an optimum fitting installation height ranging from **2.5 to 4 m**. It is designed for indoor spaces, **production plants, multi-storey car parks and garages as well as workshops, corridors, cellars, pedestrian underpasses and underground spaces with low ceilings**. IP69-rated and HACCP-compliant, the fitting's design also makes it suitable for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Wide Beam angle (WB), optimum luminaire installation height from 2.5 to 4 m
- Low **UGR ranging from 20,5 to 25**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 50^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **EPD, ESČ, ENEC, CB, HACCP**



NANOTTICA WB PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **163 lm/W**
- **UGR ranging from 20,5 to 25**
- Optimum luminaire installation height **from 2,5 to 4 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nano optics**
Wide Beam (high mechanical resistance, UV stability)

- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless and 3-pole (standard version), or screw terminal
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | UGR EVALUATED FOR | | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|-------------------|------------|--------|--------|
| | | | | | | | | X = 4 H, Y = 8 H | S = 0.25 H | | |
| Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffusor with nano optics WB (wide beam angle), transparent polycarbonate | | | | | | | | | | | |
| NANOTTICA 1.4ft WB PC 2600/840 | 50 | 2600 | 2420 | 16,1 | 150 | 21.9 / 20.5 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.4ft WB PC 3200/840 | 50 | 3100 | 2880 | 19,1 | 151 | 22.5 / 21.1 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.4ft WB PC 4400/840 | 45 | 4300 | 4000 | 26,0 | 154 | 23.6 / 22.3 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.4ft WB PC 6400/840 | 45 | 6120 | 5690 | 36,1 | 158 | 24.9 / 23.5 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.5ft WB PC 3250/840 | 50 | 3240 | 3010 | 19,5 | 154 | 21.9 / 20.6 | 2,0 | 1450 | 970 - 1230 | | |
| NANOTTICA 1.5ft WB PC 4000/840 | 50 | 3850 | 3580 | 23,3 | 154 | 22.5 / 21.2 | 2,0 | 1450 | 970 - 1230 | | |
| NANOTTICA 1.5ft WB PC 5500/840 | 45 | 5340 | 4970 | 31,9 | 156 | 23.7 / 22.3 | 2,0 | 1450 | 970 - 1230 | | |
| NANOTTICA 1.5ft WB PC 8000/840 | 45 | 7780 | 7240 | 44,3 | 163 | 25.0 / 23.6 | 2,0 | 1450 | 970 - 1230 | | |

NANOTTICA WB PC

| Code | Type |
|--------|--------------------------------|
| 100385 | NANOTTICA 1.4ft WB PC 2600/840 |
| 100386 | NANOTTICA 1.4ft WB PC 3200/840 |
| 100387 | NANOTTICA 1.4ft WB PC 4400/840 |
| 100388 | NANOTTICA 1.4ft WB PC 6400/840 |
| 100389 | NANOTTICA 1.5ft WB PC 3250/840 |
| 100390 | NANOTTICA 1.5ft WB PC 4000/840 |
| 100391 | NANOTTICA 1.5ft WB PC 5500/840 |
| 100392 | NANOTTICA 1.5ft WB PC 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100393 | 100401 | 100409 | 100417 | 100425 | 100433 |
| 100394 | 100402 | 100410 | 100418 | 100426 | 100434 |
| 100395 | 100403 | 100411 | 100419 | 100427 | 100435 |
| 100396 | 100404 | 100412 | 100420 | 100428 | 100436 |
| 100397 | 100405 | 100413 | 100421 | 100429 | 100437 |
| 100398 | 100406 | 100414 | 100422 | 100430 | 100438 |
| 100399 | 100407 | 100415 | 100423 | 100431 | 100439 |
| 100400 | 100408 | 100416 | 100424 | 100432 | 100440 |

NANOTTICA WB PCc

| Code | Type |
|--------|---------------------------------|
| 100441 | NANOTTICA 1.4ft WB PCc 2600/840 |
| 100442 | NANOTTICA 1.4ft WB PCc 3200/840 |
| 100443 | NANOTTICA 1.4ft WB PCc 4400/840 |
| 100444 | NANOTTICA 1.4ft WB PCc 6400/840 |
| 100445 | NANOTTICA 1.5ft WB PCc 3250/840 |
| 100446 | NANOTTICA 1.5ft WB PCc 4000/840 |
| 100447 | NANOTTICA 1.5ft WB PCc 5500/840 |
| 100448 | NANOTTICA 1.5ft WB PCc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100449 | 100457 | 100465 | 100473 | 100481 | 100489 |
| 100450 | 100458 | 100466 | 100474 | 100482 | 100490 |
| 100451 | 100459 | 100467 | 100475 | 100483 | 100491 |
| 100452 | 100460 | 100468 | 100476 | 100484 | 100492 |
| 100453 | 100461 | 100469 | 100477 | 100485 | 100493 |
| 100454 | 100462 | 100470 | 100478 | 100486 | 100494 |
| 100455 | 100463 | 100471 | 100479 | 100487 | 100495 |
| 100456 | 100464 | 100472 | 100480 | 100488 | 100496 |

NANOTTICA WB PC DALI

| Code | Type |
|-------------|-------------------------------------|
| 100497 | NANOTTICA 1.4ft WB PC 2600/840 DALI |
| 100498 | NANOTTICA 1.4ft WB PC 3200/840 DALI |
| 100499 | NANOTTICA 1.4ft WB PC 4400/840 DALI |
| 100500 | NANOTTICA 1.4ft WB PC 6400/840 DALI |
| 100501 | NANOTTICA 1.5ft WB PC 3250/840 DALI |
| 100502 | NANOTTICA 1.5ft WB PC 4000/840 DALI |
| 100503 | NANOTTICA 1.5ft WB PC 5500/840 DALI |
| 100504 | NANOTTICA 1.5ft WB PC 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| 100505 | 100513 | 100521 | 100529 | 100537 | 100545 |
| 100506 | 100514 | 100522 | 100530 | 100538 | 100546 |
| 100507 | 100515 | 100523 | 100531 | 100539 | 100547 |
| 100508 | 100516 | 100524 | 100532 | 100540 | 100548 |
| 100509 | 100517 | 100525 | 100533 | 100541 | 100549 |
| 100510 | 100518 | 100526 | 100534 | 100542 | 100550 |
| 100511 | 100519 | 100527 | 100535 | 100543 | 100551 |
| 100512 | 100520 | 100528 | 100536 | 100544 | 100552 |

NANOTTICA WB PCc DALI

| Code | Type |
|-------------|--------------------------------------|
| 100553 | NANOTTICA 1.4ft WB PCc 2600/840 DALI |
| 100554 | NANOTTICA 1.4ft WB PCc 3200/840 DALI |
| 100555 | NANOTTICA 1.4ft WB PCc 4400/840 DALI |
| 100556 | NANOTTICA 1.4ft WB PCc 6400/840 DALI |
| 100557 | NANOTTICA 1.5ft WB PCc 3250/840 DALI |
| 100558 | NANOTTICA 1.5ft WB PCc 4000/840 DALI |
| 100559 | NANOTTICA 1.5ft WB PCc 5500/840 DALI |
| 100560 | NANOTTICA 1.5ft WB PCc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| 100561 | 100569 | 100577 | 100585 | 100593 | 100601 |
| 100562 | 100570 | 100578 | 100586 | 100594 | 100602 |
| 100563 | 100571 | 100579 | 100587 | 100595 | 100603 |
| 100564 | 100572 | 100580 | 100588 | 100596 | 100604 |
| 100565 | 100573 | 100581 | 100589 | 100597 | 100605 |
| 100566 | 100574 | 100582 | 100590 | 100598 | 100606 |
| 100567 | 100575 | 100583 | 100591 | 100599 | 100607 |
| 100568 | 100576 | 100584 | 100592 | 100600 | 100608 |

LEGEND**1F** 1-phase 3 core through-wiring in the luminaire**3F** 3-phase 5 core through-wiring in the luminaire**M1h** emergency back-up source with 1 hour operating time for maintained emergency illumination**M3h** emergency back-up source with 3 hour operating time for maintained emergency illumination**3F Mxh** 3-phase 5 core through-wiring in the luminaire

(L3 used for emergency unit unswitched power supply)

DALI version with digital dimmable driver DALI**DALI 1F** 1-phase 5 core through-wiring in the luminaire**DALI 3F** 3-phase 7 core through-wiring in the luminaire**DALI 3F Mxh** 3-phase 7 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



VARIABLE INSTALLATION PITCH

NANOTTICA WB PC



LIGHT FITTING DETAILED VIEW

NANOTTICA WB PC



NANOTTICA ES ABS



... energy saver, exceptional efficiency,
ceiling height from 3.5 to 8 m, chemically resistant.

USE

Compared to its basic version, Nanottica ES ABS boasts **lower energy consumption**, which translates into considerably **higher luminous efficacy (lm/W)**.

The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

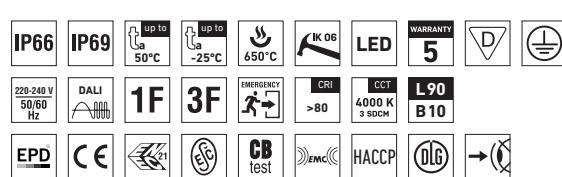
The fitting's standard beam angle makes it a great choice for premises with a fitting installation height of **3.5 to 8 m**. In addition to indoor spaces, it is designed for agricultural buildings and other spaces with chemically aggressive environments due to ammonia fumes, tye fumes, alkali and hot water (hydrolysis). The fitting is primarily intended for large **agricultural premises and industrial halls such as farms, stables, production plants and warehouses, car washes and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it suitable for the food industry.

The fitting's base is made of ABS and diffuser of AC, resulting in their **exceptional chemical resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Maximum light fitting efficiency: **160 lm/W**
- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 18,9 to 23,4**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 50^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **chemical resistance**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- Optional throughwiring (up to 7 wires inside the light fitting)

- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **EPD, ESČ, ENEC, CB, DLG, HACCP**



NANOTTICA ES ABS, ABSc



TECHNICKÝ POPIS

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **160 lm/W**
- **UGR ranging from 18,9 to 23,4**
- Optimum luminaire installation height **from 3.5 to 8 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent AC with nano optics** (high chemical resistance, UV stability)

- Body: dark grey ABS (high chemical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | | D [mm] | |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|------------------|------------|--------------|----------|
| | | | | | | | | X = 4 H, Y = 8 H | S = 0.25 H | Reflectivity | 70/50/20 |
| Up to ambient temperature ta = 50 °C - body dark grey ABS - diffusor with nano optics (standard beam angle), transparent acrylate | | | | | | | | | | | |
| NANOTTICA 1.2ft ES ABS 1300/840 | 50 | 1350 | 1190 | 7,6 | 157 | 18,9 / 19,9 | 0,9 | 610 | 110 - 370 | | |
| NANOTTICA 1.2ft ES ABS 1600/840 | 50 | 1600 | 1410 | 9,1 | 155 | 19,5 / 20,5 | 0,9 | 610 | 110 - 370 | | |
| NANOTTICA 1.2ft ES ABS 2200/840 | 45 | 2200 | 1940 | 12,3 | 158 | 20,6 / 21,6 | 0,9 | 610 | 110 - 370 | | |
| NANOTTICA 1.4ft ES ABS 2600/840 | 50 | 2690 | 2370 | 15,3 | 155 | 19,1 / 20,2 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.4ft ES ABS 3200/840 | 50 | 3190 | 2810 | 18,2 | 154 | 19,7 / 20,8 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.4ft ES ABS 4400/840 | 45 | 4380 | 3850 | 24,6 | 157 | 20,8 / 21,9 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.4ft ES ABS 6400/840 | 45 | 6220 | 5470 | 34,2 | 160 | 22,0 / 23,1 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.5ft ES ABS 3250/840 | 50 | 3310 | 2910 | 18,5 | 157 | 19,1 / 20,2 | 2,0 | 1450 | 970 - 1230 | | |
| NANOTTICA 1.5ft ES ABS 4000/840 | 50 | 3940 | 3470 | 22,2 | 156 | 19,7 / 20,8 | 2,0 | 1450 | 970 - 1230 | | |
| NANOTTICA 1.5ft ES ABS 5500/840 | 45 | 5560 | 4890 | 30,9 | 158 | 20,9 / 22,0 | 2,0 | 1450 | 970 - 1230 | | |
| NANOTTICA 1.5ft ES ABS 8000/840 | 45 | 8170 | 7190 | 44,8 | 160 | 22,2 / 23,4 | 2,0 | 1450 | 970 - 1230 | | |

NANOTTICA ES ABS

Non-dimmable driver - plastic clips

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|---------------------------------|--------|--------|--------|--------|--------|--------|
| 102822 | NANOTTICA 1.2ft ES ABS 1300/840 | 102833 | 102844 | x | x | x | x |
| 102823 | NANOTTICA 1.2ft ES ABS 1600/840 | 102834 | 102845 | x | x | x | x |
| 102824 | NANOTTICA 1.2ft ES ABS 2200/840 | 102835 | 102846 | x | x | x | x |
| 102825 | NANOTTICA 1.4ft ES ABS 2600/840 | 102836 | 102847 | 102858 | 102866 | 102874 | 102882 |
| 102826 | NANOTTICA 1.4ft ES ABS 3200/840 | 102837 | 102848 | 102859 | 102867 | 102875 | 102883 |
| 102827 | NANOTTICA 1.4ft ES ABS 4400/840 | 102838 | 102849 | 102860 | 102868 | 102876 | 102884 |
| 102828 | NANOTTICA 1.4ft ES ABS 6400/840 | 102839 | 102850 | 102861 | 102869 | 102877 | 102885 |
| 102829 | NANOTTICA 1.5ft ES ABS 3250/840 | 102840 | 102851 | 102862 | 102870 | 102878 | 102886 |
| 102830 | NANOTTICA 1.5ft ES ABS 4000/840 | 102841 | 102852 | 102863 | 102871 | 102879 | 102887 |
| 102831 | NANOTTICA 1.5ft ES ABS 5500/840 | 102842 | 102853 | 102864 | 102872 | 102880 | 102888 |
| 102832 | NANOTTICA 1.5ft ES ABS 8000/840 | 102843 | 102854 | 102865 | 102873 | 102881 | 102889 |

NANOTTICA ES ABSc

Non-dimmable driver - stainless clips (c)

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|----------------------------------|--------|--------|--------|--------|--------|--------|
| 102890 | NANOTTICA 1.2ft ES ABSc 1300/840 | 102901 | 102912 | x | x | x | x |
| 102891 | NANOTTICA 1.2ft ES ABSc 1600/840 | 102902 | 102913 | x | x | x | x |
| 102892 | NANOTTICA 1.2ft ES ABSc 2200/840 | 102903 | 102914 | x | x | x | x |
| 102893 | NANOTTICA 1.4ft ES ABSc 2600/840 | 102904 | 102915 | 102926 | 102934 | 102942 | 102950 |
| 102894 | NANOTTICA 1.4ft ES ABSc 3200/840 | 102905 | 102916 | 102927 | 102935 | 102943 | 102951 |
| 102895 | NANOTTICA 1.4ft ES ABSc 4400/840 | 102906 | 102917 | 102928 | 102936 | 102944 | 102952 |
| 102896 | NANOTTICA 1.4ft ES ABSc 6400/840 | 102907 | 102918 | 102929 | 102937 | 102945 | 102953 |
| 102897 | NANOTTICA 1.5ft ES ABSc 3250/840 | 102908 | 102919 | 102930 | 102938 | 102946 | 102954 |
| 102898 | NANOTTICA 1.5ft ES ABSc 4000/840 | 102909 | 102920 | 102931 | 102939 | 102947 | 102955 |
| 102899 | NANOTTICA 1.5ft ES ABSc 5500/840 | 102910 | 102921 | 102932 | 102940 | 102948 | 102956 |
| 102900 | NANOTTICA 1.5ft ES ABSc 8000/840 | 102911 | 102922 | 102933 | 102941 | 102949 | 102957 |

NANOTTICA ES ABS DALI

Digital dimmable driver DALI - plastic clips

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------------|--------------------------------------|-----------|-----------|------------|------------|---------------|---------------|
| 102958 | NANOTTICA 1.2ft ES ABS 1300/840 DALI | 102969 | x | x | x | x | x |
| 102959 | NANOTTICA 1.2ft ES ABS 1600/840 DALI | 102970 | x | x | x | x | x |
| 102960 | NANOTTICA 1.2ft ES ABS 2200/840 DALI | 102971 | x | x | x | x | x |
| 102961 | NANOTTICA 1.4ft ES ABS 2600/840 DALI | 102972 | 102983 | 102994 | 103002 | 103010 | 103018 |
| 102962 | NANOTTICA 1.4ft ES ABS 3200/840 DALI | 102973 | 102984 | 102995 | 103003 | 103011 | 103019 |
| 102963 | NANOTTICA 1.4ft ES ABS 4400/840 DALI | 102974 | 102985 | 102996 | 103004 | 103012 | 103020 |
| 102964 | NANOTTICA 1.4ft ES ABS 6400/840 DALI | 102975 | 102986 | 102997 | 103005 | 103013 | 103021 |
| 102965 | NANOTTICA 1.5ft ES ABS 3250/840 DALI | 102976 | 102987 | 102998 | 103006 | 103014 | 103022 |
| 102966 | NANOTTICA 1.5ft ES ABS 4000/840 DALI | 102977 | 102988 | 102999 | 103007 | 103015 | 103023 |
| 102967 | NANOTTICA 1.5ft ES ABS 5500/840 DALI | 102978 | 102989 | 103000 | 103008 | 103016 | 103024 |
| 102968 | NANOTTICA 1.5ft ES ABS 8000/840 DALI | 102979 | 102990 | 103001 | 103009 | 103017 | 103025 |

NANOTTICA ES ABSc DALI

Digital dimmable driver DALI - stainless clips [c]

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------------|---------------------------------------|-----------|-----------|------------|------------|---------------|---------------|
| 103026 | NANOTTICA 1.2ft ES ABSc 1300/840 DALI | 103037 | x | x | x | x | x |
| 103027 | NANOTTICA 1.2ft ES ABSc 1600/840 DALI | 103038 | x | x | x | x | x |
| 103028 | NANOTTICA 1.2ft ES ABSc 2200/840 DALI | 103039 | x | x | x | x | x |
| 103029 | NANOTTICA 1.4ft ES ABSc 2600/840 DALI | 103040 | 103051 | 103062 | 103070 | 103078 | 103086 |
| 103030 | NANOTTICA 1.4ft ES ABSc 3200/840 DALI | 103041 | 103052 | 103063 | 103071 | 103079 | 103087 |
| 103031 | NANOTTICA 1.4ft ES ABSc 4400/840 DALI | 103042 | 103053 | 103064 | 103072 | 103080 | 103088 |
| 103032 | NANOTTICA 1.4ft ES ABSc 6400/840 DALI | 103043 | 103054 | 103065 | 103073 | 103081 | 103089 |
| 103033 | NANOTTICA 1.5ft ES ABSc 3250/840 DALI | 103044 | 103055 | 103066 | 103074 | 103082 | 103090 |
| 103034 | NANOTTICA 1.5ft ES ABSc 4000/840 DALI | 103045 | 103056 | 103067 | 103075 | 103083 | 103091 |
| 103035 | NANOTTICA 1.5ft ES ABSc 5500/840 DALI | 103046 | 103057 | 103068 | 103076 | 103084 | 103092 |
| 103036 | NANOTTICA 1.5ft ES ABSc 8000/840 DALI | 103047 | 103058 | 103069 | 103077 | 103085 | 103093 |

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**VARIABLE INSTALLATION PITCH**

NANOTTICA ES ABS

**LIGHT FITTING DETAILED VIEW**

NANOTTICA ES ABS



NANOTTICA ABS



... ceiling height from 3.5 to 8 m, chemically resistant.

USE

The fixture boasts a **low unified glare rating with UGR values** its patented nano optics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly translates into higher productivity.

The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

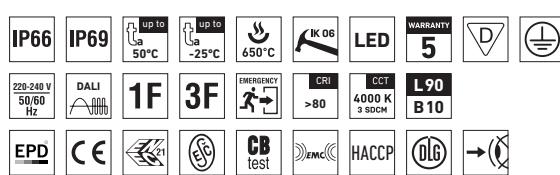
The fitting's standard beam angle makes it a great choice for premises with a fitting installation height of **3.5 to 8 m**. In addition to indoor spaces, it is designed for agricultural buildings and other spaces with chemically aggressive environments due to ammonia fumes, lye fumes, alkali and hot water (hydrolysis). The fitting is primarily intended for large **agricultural premises and industrial halls such as farms, stables, production plants and warehouses, car washes and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it suitable for the food industry.

The fitting's base is made of ABS and diffuser of AC, resulting in their **exceptional chemical resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 18,8 to 23,2**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^\circ\text{C}$ to $t_a = 50^\circ\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **chemical resistance**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- Optional throughwiring (up to 7 wires inside the light fitting)

- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **EPD, ESC, ENEC, CB, DLG, HACCP**



NANOTTICA ABS ABSc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **155 lm/W**
- **UGR ranging from 18,8 to 23,2**
- Optimum luminaire installation height **from 3.5 to 8 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent AC with nano optics** (high chemical resistance, UV stability)

- Body: dark grey ABS (high chemical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|------------------|------------|
| | | | | | | | | X = 4 H, Y = 8 H | S = 0.25 H |
| Up to ambient temperature ta = 50 °C - body dark grey ABS - diffusor with nano optics (standard beam angle), transparent acrylate | | | | | | | | | |
| NANOTTICA 1.2ft ABS 1300/840 | 50 | 1310 | 1150 | 8,2 | 140 | 18.8 / 19.8 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.2ft ABS 1600/840 | 50 | 1560 | 1370 | 9,8 | 140 | 19.4 / 20.4 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.2ft ABS 2200/840 | 45 | 2140 | 1880 | 13,2 | 142 | 20.5 / 21.5 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.4ft ABS 2600/840 | 50 | 2600 | 2290 | 16,1 | 142 | 19.0 / 20.1 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft ABS 3200/840 | 50 | 3100 | 2730 | 19,1 | 143 | 19.6 / 20.7 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft ABS 4400/840 | 45 | 4300 | 3780 | 26,0 | 145 | 20.7 / 21.8 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft ABS 6400/840 | 45 | 6120 | 5390 | 36,1 | 149 | 22.0 / 23.1 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.5ft ABS 3250/840 | 50 | 3240 | 2850 | 19,5 | 146 | 19.0 / 20.1 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft ABS 4000/840 | 50 | 3850 | 3390 | 23,3 | 145 | 19.6 / 20.7 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft ABS 5500/840 | 45 | 5340 | 4700 | 31,9 | 147 | 20.8 / 21.9 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft ABS 8000/840 | 45 | 7780 | 6850 | 44,3 | 155 | 22.1 / 23.2 | 2,0 | 1450 | 970 - 1230 |

NANOTTICA ABS

| Code | Type |
|--------|------------------------------|
| 100609 | NANOTTICA 1.2ft ABS 1300/840 |
| 100610 | NANOTTICA 1.2ft ABS 1600/840 |
| 100611 | NANOTTICA 1.2ft ABS 2200/840 |
| 100612 | NANOTTICA 1.4ft ABS 2600/840 |
| 100613 | NANOTTICA 1.4ft ABS 3200/840 |
| 100614 | NANOTTICA 1.4ft ABS 4400/840 |
| 100615 | NANOTTICA 1.4ft ABS 6400/840 |
| 100616 | NANOTTICA 1.5ft ABS 3250/840 |
| 100617 | NANOTTICA 1.5ft ABS 4000/840 |
| 100618 | NANOTTICA 1.5ft ABS 5500/840 |
| 100619 | NANOTTICA 1.5ft ABS 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100620 | 100631 | x | x | x | x |
| 100621 | 100632 | x | x | x | x |
| 100622 | 100633 | x | x | x | x |
| 100623 | 100634 | 100645 | 100653 | 100661 | 100669 |
| 100624 | 100635 | 100646 | 100654 | 100662 | 100670 |
| 100625 | 100636 | 100647 | 100655 | 100663 | 100671 |
| 100626 | 100637 | 100648 | 100656 | 100664 | 100672 |
| 100627 | 100638 | 100649 | 100657 | 100665 | 100673 |
| 100628 | 100639 | 100650 | 100658 | 100666 | 100674 |
| 100629 | 100640 | 100651 | 100659 | 100667 | 100675 |
| 100630 | 100641 | 100652 | 100660 | 100668 | 100676 |

NANOTTICA ABSc

| Code | Type |
|--------|-------------------------------|
| 100677 | NANOTTICA 1.2ft ABSc 1300/840 |
| 100678 | NANOTTICA 1.2ft ABSc 1600/840 |
| 100679 | NANOTTICA 1.2ft ABSc 2200/840 |
| 100680 | NANOTTICA 1.4ft ABSc 2600/840 |
| 100681 | NANOTTICA 1.4ft ABSc 3200/840 |
| 100682 | NANOTTICA 1.4ft ABSc 4400/840 |
| 100683 | NANOTTICA 1.4ft ABSc 6400/840 |
| 100684 | NANOTTICA 1.5ft ABSc 3250/840 |
| 100685 | NANOTTICA 1.5ft ABSc 4000/840 |
| 100686 | NANOTTICA 1.5ft ABSc 5500/840 |
| 100687 | NANOTTICA 1.5ft ABSc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100688 | 100699 | x | x | x | x |
| 100689 | 100700 | x | x | x | x |
| 100690 | 100701 | x | x | x | x |
| 100691 | 100702 | 100713 | 100721 | 100729 | 100737 |
| 100692 | 100703 | 100714 | 100722 | 100730 | 100738 |
| 100693 | 100704 | 100715 | 100723 | 100731 | 100739 |
| 100694 | 100705 | 100716 | 100724 | 100732 | 100740 |
| 100695 | 100706 | 100717 | 100725 | 100733 | 100741 |
| 100696 | 100707 | 100718 | 100726 | 100734 | 100742 |
| 100697 | 100708 | 100719 | 100727 | 100735 | 100743 |
| 100698 | 100709 | 100720 | 100728 | 100736 | 100744 |

NANOTTICA ABS DALI

| Code | Type |
|--------|-----------------------------------|
| 100745 | NANOTTICA 1.2ft ABS 1300/840 DALI |
| 100746 | NANOTTICA 1.2ft ABS 1600/840 DALI |
| 100747 | NANOTTICA 1.2ft ABS 2200/840 DALI |
| 100748 | NANOTTICA 1.4ft ABS 2600/840 DALI |
| 100749 | NANOTTICA 1.4ft ABS 3200/840 DALI |
| 100750 | NANOTTICA 1.4ft ABS 4400/840 DALI |
| 100751 | NANOTTICA 1.4ft ABS 6400/840 DALI |
| 100752 | NANOTTICA 1.5ft ABS 3250/840 DALI |
| 100753 | NANOTTICA 1.5ft ABS 4000/840 DALI |
| 100754 | NANOTTICA 1.5ft ABS 5500/840 DALI |
| 100755 | NANOTTICA 1.5ft ABS 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100756 | x | x | x | x | x |
| 100757 | x | x | x | x | x |
| 100758 | x | x | x | x | x |
| 100759 | 100770 | 100781 | 100789 | 100797 | 100805 |
| 100760 | 100771 | 100782 | 100790 | 100798 | 100806 |
| 100761 | 100772 | 100783 | 100791 | 100799 | 100807 |
| 100762 | 100773 | 100784 | 100792 | 100800 | 100808 |
| 100763 | 100774 | 100785 | 100793 | 100801 | 100809 |
| 100764 | 100775 | 100786 | 100794 | 100802 | 100810 |
| 100765 | 100776 | 100787 | 100795 | 100803 | 100811 |
| 100766 | 100777 | 100788 | 100796 | 100804 | 100812 |

NANOTTICA ABSc DALI

| Code | Type |
|--------|------------------------------------|
| 100813 | NANOTTICA 1.2ft ABSc 1300/840 DALI |
| 100814 | NANOTTICA 1.2ft ABSc 1600/840 DALI |
| 100815 | NANOTTICA 1.2ft ABSc 2200/840 DALI |
| 100816 | NANOTTICA 1.4ft ABSc 2600/840 DALI |
| 100817 | NANOTTICA 1.4ft ABSc 3200/840 DALI |
| 100818 | NANOTTICA 1.4ft ABSc 4400/840 DALI |
| 100819 | NANOTTICA 1.4ft ABSc 6400/840 DALI |
| 100820 | NANOTTICA 1.5ft ABSc 3250/840 DALI |
| 100821 | NANOTTICA 1.5ft ABSc 4000/840 DALI |
| 100822 | NANOTTICA 1.5ft ABSc 5500/840 DALI |
| 100823 | NANOTTICA 1.5ft ABSc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100824 | x | x | x | x | x |
| 100825 | x | x | x | x | x |
| 100826 | x | x | x | x | x |
| 100827 | 100838 | 100849 | 100857 | 100865 | 100873 |
| 100828 | 100839 | 100850 | 100858 | 100866 | 100874 |
| 100829 | 100840 | 100851 | 100859 | 100867 | 100875 |
| 100830 | 100841 | 100852 | 100860 | 100868 | 100876 |
| 100831 | 100842 | 100853 | 100861 | 100869 | 100877 |
| 100832 | 100843 | 100854 | 100862 | 100870 | 100878 |
| 100833 | 100844 | 100855 | 100863 | 100871 | 100879 |
| 100834 | 100845 | 100856 | 100864 | 100872 | 100880 |

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



VARIABLE INSTALLATION PITCH

NANOTTICA ABS



LIGHT FITTING DETAILED VIEW

NANOTTICA ABS



NANOTTICA NB ABS



... ceiling height from 7.5 to 12 m, chemically resistant.

USE

The fixture boasts a **low unified glare rating with UGR values** its patented nano optics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

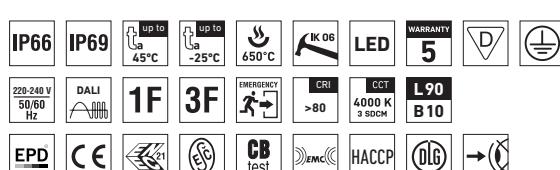
The luminaire's **narrow-beam angle** makes it suitable for premises with an optimum luminaire installation height of **7.5 to 12 m**. The luminaire is designed for indoor spaces as well as for agricultural buildings and other spaces with chemically aggressive environments due to ammonia fumes, lye fumes, alkali and hot water (hydrolysis). The fitting is primarily intended for **walls and large corridors in high industrial and agricultural buildings, production plants and warehouse aisles, farms, stables and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it suitable for the food industry.

The fitting's base is made of ABS and diffuser of AC, resulting in their **exceptional chemical resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Narrow Beam angle (NB), optimum luminaire installation height **from 7.5 to 12 m**
- Low **UGR ranging from 21,4 to 24,8**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 45^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **chemical resistance**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **ESČ, ENEC, CB, DLG, HACCP**



NANOTTICA NB ABS, ABSc

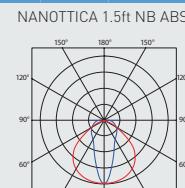


TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 45 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **153 lm/W**
- UGR ranging from 21,4 to 24,8**
- Optimum luminaire installation height **from 7,5 to 12 m**
- CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent AC with nanooptics**
Narrow Beam (high chemical resistance, UV stability)

- Body: dark grey ABS (high chemical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 45 °C - body dark grey ABS - diffusor with nanooptics NB (narrow beam angle), transparent acrylate | | | | | | | | | |
| NANOTTICA 1.4ft NB ABS 4400/840 | 45 | 4300 | 3740 | 26,0 | 144 | 23,5 / 21,4 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft NB ABS 6400/840 | 45 | 6120 | 5320 | 36,1 | 147 | 24,7 / 22,6 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.5ft NB ABS 5500/840 | 45 | 5340 | 4650 | 31,9 | 146 | 23,5 / 21,5 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft NB ABS 8000/840 | 45 | 7780 | 6770 | 44,3 | 153 | 24,8 / 22,8 | 2,0 | 1450 | 970 - 1230 |



NANOTTICA NB ABS

| Code | Type |
|--------|---------------------------------|
| 100881 | NANOTTICA 1.4ft NB ABS 4400/840 |
| 100882 | NANOTTICA 1.4ft NB ABS 6400/840 |
| 100883 | NANOTTICA 1.5ft NB ABS 5500/840 |
| 100884 | NANOTTICA 1.5ft NB ABS 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100885 | 100889 | 100893 | 100897 | 100901 | 100905 |
| 100886 | 100890 | 100894 | 100898 | 100902 | 100906 |
| 100887 | 100891 | 100895 | 100899 | 100903 | 100907 |
| 100888 | 100892 | 100896 | 100900 | 100904 | 100908 |

NANOTTICA NB ABSc

| Code | Type |
|--------|----------------------------------|
| 100909 | NANOTTICA 1.4ft NB ABSc 4400/840 |
| 100910 | NANOTTICA 1.4ft NB ABSc 6400/840 |
| 100911 | NANOTTICA 1.5ft NB ABSc 5500/840 |
| 100912 | NANOTTICA 1.5ft NB ABSc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100913 | 100917 | 100921 | 100925 | 100929 | 100933 |
| 100914 | 100918 | 100922 | 100926 | 100930 | 100934 |
| 100915 | 100919 | 100923 | 100927 | 100931 | 100935 |
| 100916 | 100920 | 100924 | 100928 | 100932 | 100936 |

NANOTTICA NB ABS DALI

| Code | Type |
|--------|--------------------------------------|
| 100937 | NANOTTICA 1.4ft NB ABS 4400/840 DALI |
| 100938 | NANOTTICA 1.4ft NB ABS 6400/840 DALI |
| 100939 | NANOTTICA 1.5ft NB ABS 5500/840 DALI |
| 100940 | NANOTTICA 1.5ft NB ABS 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100941 | 100945 | 100949 | 100953 | 100957 | 100961 |
| 100942 | 100946 | 100950 | 100954 | 100958 | 100962 |
| 100943 | 100947 | 100951 | 100955 | 100959 | 100963 |
| 100944 | 100948 | 100952 | 100956 | 100960 | 100964 |

NANOTTICA NB ABSc DALI

| Code | Type |
|--------|---------------------------------------|
| 100965 | NANOTTICA 1.4ft NB ABSc 4400/840 DALI |
| 100966 | NANOTTICA 1.4ft NB ABSc 6400/840 DALI |
| 100967 | NANOTTICA 1.5ft NB ABSc 5500/840 DALI |
| 100968 | NANOTTICA 1.5ft NB ABSc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 100969 | 100973 | 100977 | 100981 | 100985 | 100989 |
| 100970 | 100974 | 100978 | 100982 | 100986 | 100990 |
| 100971 | 100975 | 100979 | 100983 | 100987 | 100991 |
| 100972 | 100976 | 100980 | 100984 | 100988 | 100992 |

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



VARIABLE INSTALLATION PITCH

NANOTTICA NB ABS



LIGHT FITTING DETAILED VIEW

NANOTTICA NB ABS





NANOTTICA WB ABS



... ceiling height from 2.5 to 4 m, chemically resistant.

USE

The fixture boasts a **low unified glare rating with UGR values** its patented nanooptics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly translates into **higher productivity**.

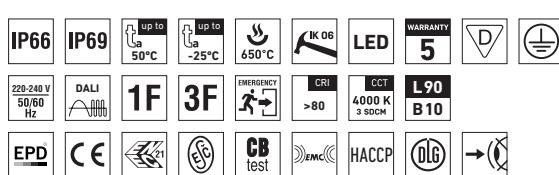
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas. Its **wide beam angle** makes it an excellent choice for spaces with an optimum luminaire installation height ranging from **2.5 to 4 m**. It is designed for indoor spaces as well as for agricultural buildings and other spaces with chemically aggressive environments due to ammonia fumes, lye fumes, alkali and hot water (hydrolysis). The product is primarily intended for **walls and large corridors in low agricultural buildings and industrial halls, workshops, corridors, cellars, farms, stables and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it suitable for the food industry.

The fitting's base is made of ABS and diffuser of AC, resulting in their **exceptional chemical resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Wide Beam angle (WB), optimum luminaire installation height from 2.5 to 4 m
- Low **UGR ranging from 20,3 to 24,8**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to **$t_a = 50^{\circ}\text{C}$**
- Lifetime: 50 000 hours / L90B10
- High **chemical resistance**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **EPD, ESC, ENEC, CB, DLG, HACCP**



NANOTTICA WB ABS, ABSc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-25 °C** for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **155 lm/W**
- **UGR ranging from 20,3 to 24,8**
- Optimum luminaire installation height **from 2,5 to 4 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent AC with nanooptics**
Wide Beam (high chemical resistance, UV stability)

- Body: dark grey ABS (high chemical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------------|------------|
| | | | | | | | | Reflectivity | 70/50/20 |
| Up to ambient temperature ta = 50 °C - body dark grey ABS - diffusor with nanooptics WB (wide beam angle), transparent acrylate | | | | | | | | | |
| NANOTTICA 1.4ft WB ABS 2600/840 | 50 | 2600 | 2290 | 16,1 | 142 | 21.7 / 20.3 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft WB ABS 3200/840 | 50 | 3100 | 2730 | 19,1 | 143 | 22.3 / 21.0 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft WB ABS 4400/840 | 45 | 4300 | 3780 | 26,0 | 145 | 23.5 / 22.1 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft WB ABS 6400/840 | 45 | 6120 | 5390 | 36,1 | 149 | 24.7 / 23.3 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.5ft WB ABS 3250/840 | 50 | 3240 | 2850 | 19,5 | 146 | 21.7 / 20.4 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft WB ABS 4000/840 | 50 | 3850 | 3390 | 23,3 | 145 | 22.3 / 21.0 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft WB ABS 5500/840 | 45 | 5340 | 4700 | 31,9 | 147 | 23.5 / 22.1 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft WB ABS 8000/840 | 45 | 7780 | 6850 | 44,3 | 155 | 24.8 / 23.4 | 2,0 | 1450 | 970 - 1230 |

NANOTTICA WB ABS

| Code | Type |
|--------|---------------------------------|
| 100993 | NANOTTICA 1.4ft WB ABS 2600/840 |
| 100994 | NANOTTICA 1.4ft WB ABS 3200/840 |
| 100995 | NANOTTICA 1.4ft WB ABS 4400/840 |
| 100996 | NANOTTICA 1.4ft WB ABS 6400/840 |
| 100997 | NANOTTICA 1.5ft WB ABS 3250/840 |
| 100998 | NANOTTICA 1.5ft WB ABS 4000/840 |
| 100999 | NANOTTICA 1.5ft WB ABS 5500/840 |
| 101000 | NANOTTICA 1.5ft WB ABS 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 101001 | 101009 | 101017 | 101025 | 101033 | 101041 |
| 101002 | 101010 | 101018 | 101026 | 101034 | 101042 |
| 101003 | 101011 | 101019 | 101027 | 101035 | 101043 |
| 101004 | 101012 | 101020 | 101028 | 101036 | 101044 |
| 101005 | 101013 | 101021 | 101029 | 101037 | 101045 |
| 101006 | 101014 | 101022 | 101030 | 101038 | 101046 |
| 101007 | 101015 | 101023 | 101031 | 101039 | 101047 |
| 101008 | 101016 | 101024 | 101032 | 101040 | 101048 |

NANOTTICA WB ABSc

| Code | Type |
|--------|----------------------------------|
| 101049 | NANOTTICA 1.4ft WB ABSc 2600/840 |
| 101050 | NANOTTICA 1.4ft WB ABSc 3200/840 |
| 101051 | NANOTTICA 1.4ft WB ABSc 4400/840 |
| 101052 | NANOTTICA 1.4ft WB ABSc 6400/840 |
| 101053 | NANOTTICA 1.5ft WB ABSc 3250/840 |
| 101054 | NANOTTICA 1.5ft WB ABSc 4000/840 |
| 101055 | NANOTTICA 1.5ft WB ABSc 5500/840 |
| 101056 | NANOTTICA 1.5ft WB ABSc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 101057 | 101065 | 101073 | 101081 | 101089 | 101097 |
| 101058 | 101066 | 101074 | 101082 | 101090 | 101098 |
| 101059 | 101067 | 101075 | 101083 | 101091 | 101099 |
| 101060 | 101068 | 101076 | 101084 | 101092 | 101100 |
| 101061 | 101069 | 101077 | 101085 | 101093 | 101101 |
| 101062 | 101070 | 101078 | 101086 | 101094 | 101102 |
| 101063 | 101071 | 101079 | 101087 | 101095 | 101103 |
| 101064 | 101072 | 101080 | 101088 | 101096 | 101104 |

NANOTTICA WB ABS DALI

| Code | Type |
|--------|--------------------------------------|
| 101105 | NANOTTICA 1.4ft WB ABS 2600/840 DALI |
| 101106 | NANOTTICA 1.4ft WB ABS 3200/840 DALI |
| 101107 | NANOTTICA 1.4ft WB ABS 4400/840 DALI |
| 101108 | NANOTTICA 1.4ft WB ABS 6400/840 DALI |
| 101109 | NANOTTICA 1.5ft WB ABS 3250/840 DALI |
| 101110 | NANOTTICA 1.5ft WB ABS 4000/840 DALI |
| 101111 | NANOTTICA 1.5ft WB ABS 5500/840 DALI |
| 101112 | NANOTTICA 1.5ft WB ABS 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 101113 | 101121 | 101129 | 101137 | 101145 | 101153 |
| 101114 | 101122 | 101130 | 101138 | 101146 | 101154 |
| 101115 | 101123 | 101131 | 101139 | 101147 | 101155 |
| 101116 | 101124 | 101132 | 101140 | 101148 | 101156 |
| 101117 | 101125 | 101133 | 101141 | 101149 | 101157 |
| 101118 | 101126 | 101134 | 101142 | 101150 | 101158 |
| 101119 | 101127 | 101135 | 101143 | 101151 | 101159 |
| 101120 | 101128 | 101136 | 101144 | 101152 | 101160 |

NANOTTICA WB ABS*c* DALI

| Code | Type |
|--------|---|
| 101161 | NANOTTICA 1.4ft WB ABS <i>c</i> 2600/840 DALI |
| 101162 | NANOTTICA 1.4ft WB ABS <i>c</i> 3200/840 DALI |
| 101163 | NANOTTICA 1.4ft WB ABS <i>c</i> 4400/840 DALI |
| 101164 | NANOTTICA 1.4ft WB ABS <i>c</i> 6400/840 DALI |
| 101165 | NANOTTICA 1.5ft WB ABS <i>c</i> 3250/840 DALI |
| 101166 | NANOTTICA 1.5ft WB ABS <i>c</i> 4000/840 DALI |
| 101167 | NANOTTICA 1.5ft WB ABS <i>c</i> 5500/840 DALI |
| 101168 | NANOTTICA 1.5ft WB ABS <i>c</i> 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (*c*)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 101169 | 101177 | 101185 | 101193 | 101201 | 101209 |
| 101170 | 101178 | 101186 | 101194 | 101202 | 101210 |
| 101171 | 101179 | 101187 | 101195 | 101203 | 101211 |
| 101172 | 101180 | 101188 | 101196 | 101204 | 101212 |
| 101173 | 101181 | 101189 | 101197 | 101205 | 101213 |
| 101174 | 101182 | 101190 | 101198 | 101206 | 101214 |
| 101175 | 101183 | 101191 | 101199 | 101207 | 101215 |
| 101176 | 101184 | 101192 | 101200 | 101208 | 101216 |

LEGEND

1F 1-phase 3 core through-wiring in the luminaire**3F** 3-phase 5 core through-wiring in the luminaire**M1h** emergency back-up source with 1 hour operating time for maintained emergency illumination**M3h** emergency back-up source with 3 hour operating time for maintained emergency illumination**3F Mxh** 3-phase 5 core through-wiring in the luminaire

(L3 used for emergency unit unswitched power supply)

DALI version with digital dimmable driver DALI**DALI 1F** 1-phase 5 core through-wiring in the luminaire**DALI 3F** 3-phase 7 core through-wiring in the luminaire**DALI 3F Mxh** 3-phase 7 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**VARIABLE INSTALLATION PITCH**

NANOTTICA WB ABS

**LIGHT FITTING DETAILED VIEW**

NANOTTICA WB ABS



NANOTTICA VP



... for outdoor sheltered spaces, ceiling height from 3.5 to 8 m, impact resistant.

USE

The fixture boasts a **low unified glare rating with UGR values** its patented nano optics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

The fitting's **standard beam angle** makes it a great choice for premises with an optimum fitting installation height of **3.5 to 8 m**.

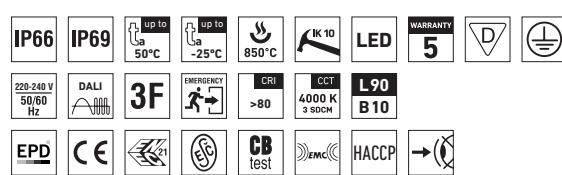
It is intended to be installed **in sheltered outdoor spaces**. It features a ventilation membrane that equalizes pressures while blocking water and contaminants that build up inside of the fitting as a result of temperature fluctuations. The fixture is highly recommended for **industrial premises, warehouses, agricultural buildings, sports facilities as well as transport hubs, car parks and garages, workshops and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 19,1 to 23,4**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to **$t_a = 50^{\circ}\text{C}$**
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- Optional throughwiring (up to 7 wires inside the light fitting)

- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **EPD, ESC, ENEC, CB, HACCP**



NANOTTICA VP PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **165 lm/W**
- **UGR ranging from 19,1 to 23,4**
- Optimum luminaire installation height **from 3.5 to 8 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nano optics** (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)
- **A ventilation membrane** in the base equalizes pressures while blocking water and contaminants
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | | D [mm] | |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|--------|--------------|
| | | | | | | | | X | Y | S | Reflectivity |
| Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffuser with nano optics (standard beam angle), transparent polycarbonate | | | | | | | | | | | |
| NANOTTICA 1.2ft VP PC 1300/840 | 50 | 1310 | 1230 | 8,2 | 150 | 19.1 / 20.0 | 0,9 | 610 | 110 - 370 | | |
| NANOTTICA 1.2ft VP PC 1600/840 | 50 | 1560 | 1470 | 9,8 | 150 | 19.7 / 20.7 | 0,9 | 610 | 110 - 370 | | |
| NANOTTICA 1.2ft VP PC 2200/840 | 45 | 2140 | 2010 | 13,2 | 152 | 20.8 / 21.7 | 0,9 | 610 | 110 - 370 | | |
| NANOTTICA 1.4ft VP PC 2600/840 | 50 | 2600 | 2440 | 16,1 | 152 | 19.2 / 20.3 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.4ft VP PC 3200/840 | 50 | 3100 | 2910 | 19,1 | 152 | 19.8 / 20.9 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.4ft VP PC 4400/840 | 45 | 4300 | 4040 | 26,0 | 155 | 21.0 / 22.1 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.4ft VP PC 6400/840 | 45 | 6120 | 5750 | 36,1 | 159 | 22.2 / 23.3 | 1,7 | 1170 | 700 - 960 | | |
| NANOTTICA 1.5ft VP PC 3250/840 | 50 | 3240 | 3050 | 19,5 | 156 | 19.3 / 20.4 | 2,0 | 1450 | 970 - 1230 | | |
| NANOTTICA 1.5ft VP PC 4000/840 | 50 | 3850 | 3620 | 23,3 | 155 | 19.9 / 21.0 | 2,0 | 1450 | 970 - 1230 | | |
| NANOTTICA 1.5ft VP PC 5500/840 | 45 | 5340 | 5020 | 31,9 | 157 | 21.0 / 22.1 | 2,0 | 1450 | 970 - 1230 | | |
| NANOTTICA 1.5ft VP PC 8000/840 | 45 | 7780 | 7310 | 44,3 | 165 | 22.3 / 23.4 | 2,0 | 1450 | 970 - 1230 | | |

NANOTTICA VP PC

| Code | Type |
|--------|--------------------------------|
| 101217 | NANOTTICA 1.2ft VP PC 1300/840 |
| 101218 | NANOTTICA 1.2ft VP PC 1600/840 |
| 101219 | NANOTTICA 1.2ft VP PC 2200/840 |
| 101220 | NANOTTICA 1.4ft VP PC 2600/840 |
| 101221 | NANOTTICA 1.4ft VP PC 3200/840 |
| 101222 | NANOTTICA 1.4ft VP PC 4400/840 |
| 101223 | NANOTTICA 1.4ft VP PC 6400/840 |
| 101224 | NANOTTICA 1.5ft VP PC 3250/840 |
| 101225 | NANOTTICA 1.5ft VP PC 4000/840 |
| 101226 | NANOTTICA 1.5ft VP PC 5500/840 |
| 101227 | NANOTTICA 1.5ft VP PC 8000/840 |

Non-dimmable driver - plastic clips

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| 101228 | x | x |
| 101229 | x | x |
| 101230 | x | x |
| 101231 | 101239 | 101247 |
| 101232 | 101240 | 101248 |
| 101233 | 101241 | 101249 |
| 101234 | 101242 | 101250 |
| 101235 | 101243 | 101251 |
| 101236 | 101244 | 101252 |
| 101237 | 101245 | 101253 |
| 101238 | 101246 | 101254 |

NANOTTICA VP PCc

| Code | Type |
|--------|---------------------------------|
| 101255 | NANOTTICA 1.2ft VP PCc 1300/840 |
| 101256 | NANOTTICA 1.2ft VP PCc 1600/840 |
| 101257 | NANOTTICA 1.2ft VP PCc 2200/840 |
| 101258 | NANOTTICA 1.4ft VP PCc 2600/840 |
| 101259 | NANOTTICA 1.4ft VP PCc 3200/840 |
| 101260 | NANOTTICA 1.4ft VP PCc 4400/840 |
| 101261 | NANOTTICA 1.4ft VP PCc 6400/840 |
| 101262 | NANOTTICA 1.5ft VP PCc 3250/840 |
| 101263 | NANOTTICA 1.5ft VP PCc 4000/840 |
| 101264 | NANOTTICA 1.5ft VP PCc 5500/840 |
| 101265 | NANOTTICA 1.5ft VP PCc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| 101266 | x | x |
| 101267 | x | x |
| 101268 | x | x |
| 101269 | 101277 | 101285 |
| 101270 | 101278 | 101286 |
| 101271 | 101279 | 101287 |
| 101272 | 101280 | 101288 |
| 101273 | 101281 | 101289 |
| 101274 | 101282 | 101290 |
| 101275 | 101283 | 101291 |
| 101276 | 101284 | 101292 |

NANOTTICA VP PC DALI

| Code | Type |
|--------|-------------------------------------|
| 101293 | NANOTTICA 1.2ft VP PC 1300/840 DALI |
| 101294 | NANOTTICA 1.2ft VP PC 1600/840 DALI |
| 101295 | NANOTTICA 1.2ft VP PC 2200/840 DALI |
| 101296 | NANOTTICA 1.4ft VP PC 2600/840 DALI |
| 101297 | NANOTTICA 1.4ft VP PC 3200/840 DALI |
| 101298 | NANOTTICA 1.4ft VP PC 4400/840 DALI |
| 101299 | NANOTTICA 1.4ft VP PC 6400/840 DALI |
| 101300 | NANOTTICA 1.5ft VP PC 3250/840 DALI |
| 101301 | NANOTTICA 1.5ft VP PC 4000/840 DALI |
| 101302 | NANOTTICA 1.5ft VP PC 5500/840 DALI |
| 101303 | NANOTTICA 1.5ft VP PC 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| x | x | x |
| x | x | x |
| x | x | x |
| 101307 | 101315 | 101323 |
| 101308 | 101316 | 101324 |
| 101309 | 101317 | 101325 |
| 101310 | 101318 | 101326 |
| 101311 | 101319 | 101327 |
| 101312 | 101320 | 101328 |
| 101313 | 101321 | 101329 |
| 101314 | 101322 | 101330 |

NANOTTICA VP PCc DALI

| Code | Type |
|--------|--------------------------------------|
| 101331 | NANOTTICA 1.2ft VP PCc 1300/840 DALI |
| 101332 | NANOTTICA 1.2ft VP PCc 1600/840 DALI |
| 101333 | NANOTTICA 1.2ft VP PCc 2200/840 DALI |
| 101334 | NANOTTICA 1.4ft VP PCc 2600/840 DALI |
| 101335 | NANOTTICA 1.4ft VP PCc 3200/840 DALI |
| 101336 | NANOTTICA 1.4ft VP PCc 4400/840 DALI |
| 101337 | NANOTTICA 1.4ft VP PCc 6400/840 DALI |
| 101338 | NANOTTICA 1.5ft VP PCc 3250/840 DALI |
| 101339 | NANOTTICA 1.5ft VP PCc 4000/840 DALI |
| 101340 | NANOTTICA 1.5ft VP PCc 5500/840 DALI |
| 101341 | NANOTTICA 1.5ft VP PCc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| x | x | x |
| x | x | x |
| x | x | x |
| 101345 | 101353 | 101361 |
| 101346 | 101354 | 101362 |
| 101347 | 101355 | 101363 |
| 101348 | 101356 | 101364 |
| 101349 | 101357 | 101365 |
| 101350 | 101358 | 101366 |
| 101351 | 101359 | 101367 |
| 101352 | 101360 | 101368 |

LEGEND

| | | | |
|---------------|--|--------------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire | DALI | version with digital dimmable driver DALI |
| 3F | 3-phase 5 core through-wiring in the luminaire | DALI 1F | 1-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination | DALI 3F | 3-phase 7 core through-wiring in the luminaire |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination | DALI 3F Mxh | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) | | |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



VARIABLE INSTALLATION PITCH

NANOTTICA VP PC



LIGHT FITTING DETAILED VIEW

NANOTTICA VP PC



NANOTTICA VP ABS



... for outdoor sheltered spaces, ceiling height from 3.5 to 8 m, chemically resistant.

USE

The fixture boasts a **low unified glare rating with UGR values** its patented nano optics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly translates into higher productivity.

The fitting's **standard beam angle** makes it a great choice for premises with an optimum fitting installation height of **3.5 to 8 m**.

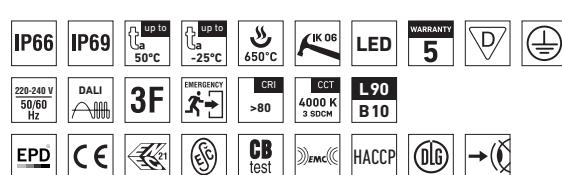
It is intended to be installed **in sheltered outdoor spaces**. It features a ventilation membrane that equalizes pressures while blocking water and contaminants that build up inside of the fitting as a result of temperature fluctuations. The fitting is highly recommended for agricultural buildings and other spaces with chemically aggressive environments due to ammonia fumes, lye fumes, alkali, hot water (hydrolysis) and oils. The product is primarily intended for **agricultural buildings and industrial halls such as farms, stables, production plants and warehouses, and spaces with permanently high humidity (such as car washes and tunnels)**. Additionally, it is a perfect choice for the **tropical zone and coastal areas**. IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

The fitting's base is made of ABS and diffuser of AC, resulting in their **exceptional chemical resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 18,8 to 23,2**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 50^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **chemical resistance**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **EPD, ESČ, ENEC, CB, DLG, HACCP**



NANOTTICA VP ABS, ABSc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **155 lm/W**
- **UGR ranging from 18,8 to 23,2**
- Optimum luminaire installation height **from 3.5 to 8 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: transparent AC with nanooptics (high chemical resistance, UV stability)

- Body: dark grey ABS (high chemical resistance, UV stability)
- **A ventilation membrane** in the base equalizes pressures while blocking water and contaminants
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 50 °C - body dark grey ABS - diffusor with nanooptics (standard beam angle), transparent acrylate | | | | | | | | | |
| NANOTTICA 1.2ft VP ABS 1300/840 | 50 | 1310 | 1150 | 8,2 | 140 | 18.8 / 19.8 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.2ft VP ABS 1600/840 | 50 | 1560 | 1370 | 9,8 | 140 | 19.4 / 20.4 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.2ft VP ABS 2200/840 | 45 | 2140 | 1880 | 13,2 | 142 | 20.5 / 21.5 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.4ft VP ABS 2600/840 | 50 | 2600 | 2290 | 16,1 | 142 | 19.0 / 20.1 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft VP ABS 3200/840 | 50 | 3100 | 2730 | 19,1 | 143 | 19.6 / 20.7 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft VP ABS 4400/840 | 45 | 4300 | 3780 | 26,0 | 145 | 20.7 / 21.8 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft VP ABS 6400/840 | 45 | 6120 | 5390 | 36,1 | 149 | 22.0 / 23.1 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.5ft VP ABS 3250/840 | 50 | 3240 | 2850 | 19,5 | 146 | 19.0 / 20.1 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft VP ABS 4000/840 | 50 | 3850 | 3390 | 23,3 | 145 | 19.6 / 20.7 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft VP ABS 5500/840 | 45 | 5340 | 4700 | 31,9 | 147 | 20.8 / 21.9 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft VP ABS 8000/840 | 45 | 7780 | 6850 | 44,3 | 155 | 22.1 / 23.2 | 2,0 | 1450 | 970 - 1230 |

NANOTTICA VP ABS

| Code | Type |
|--------|---------------------------------|
| 101369 | NANOTTICA 1.2ft VP ABS 1300/840 |
| 101370 | NANOTTICA 1.2ft VP ABS 1600/840 |
| 101371 | NANOTTICA 1.2ft VP ABS 2200/840 |
| 101372 | NANOTTICA 1.4ft VP ABS 2600/840 |
| 101373 | NANOTTICA 1.4ft VP ABS 3200/840 |
| 101374 | NANOTTICA 1.4ft VP ABS 4400/840 |
| 101375 | NANOTTICA 1.4ft VP ABS 6400/840 |
| 101376 | NANOTTICA 1.5ft VP ABS 3250/840 |
| 101377 | NANOTTICA 1.5ft VP ABS 4000/840 |
| 101378 | NANOTTICA 1.5ft VP ABS 5500/840 |
| 101379 | NANOTTICA 1.5ft VP ABS 8000/840 |

Non-dimmable driver - plastic clips

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| 101380 | x | x |
| 101381 | x | x |
| 101382 | x | x |
| 101383 | 101391 | 101399 |
| 101384 | 101392 | 101400 |
| 101385 | 101393 | 101401 |
| 101386 | 101394 | 101402 |
| 101387 | 101395 | 101403 |
| 101388 | 101396 | 101404 |
| 101389 | 101397 | 101405 |
| 101390 | 101398 | 101406 |

NANOTTICA VP ABSc

| Code | Type |
|--------|----------------------------------|
| 101407 | NANOTTICA 1.2ft VP ABSc 1300/840 |
| 101408 | NANOTTICA 1.2ft VP ABSc 1600/840 |
| 101409 | NANOTTICA 1.2ft VP ABSc 2200/840 |
| 101410 | NANOTTICA 1.4ft VP ABSc 2600/840 |
| 101411 | NANOTTICA 1.4ft VP ABSc 3200/840 |
| 101412 | NANOTTICA 1.4ft VP ABSc 4400/840 |
| 101413 | NANOTTICA 1.4ft VP ABSc 6400/840 |
| 101414 | NANOTTICA 1.5ft VP ABSc 3250/840 |
| 101415 | NANOTTICA 1.5ft VP ABSc 4000/840 |
| 101416 | NANOTTICA 1.5ft VP ABSc 5500/840 |
| 101417 | NANOTTICA 1.5ft VP ABSc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| 101418 | x | x |
| 101419 | x | x |
| 101420 | x | x |
| 101421 | 101429 | 101437 |
| 101422 | 101430 | 101438 |
| 101423 | 101431 | 101439 |
| 101424 | 101432 | 101440 |
| 101425 | 101433 | 101441 |
| 101426 | 101434 | 101442 |
| 101427 | 101435 | 101443 |
| 101428 | 101436 | 101444 |

NANOTTICA VP ABS DALI

| Code | Type |
|--------|--------------------------------------|
| 101445 | NANOTTICA 1.2ft VP ABS 1300/840 DALI |
| 101446 | NANOTTICA 1.2ft VP ABS 1600/840 DALI |
| 101447 | NANOTTICA 1.2ft VP ABS 2200/840 DALI |
| 101448 | NANOTTICA 1.4ft VP ABS 2600/840 DALI |
| 101449 | NANOTTICA 1.4ft VP ABS 3200/840 DALI |
| 101450 | NANOTTICA 1.4ft VP ABS 4400/840 DALI |
| 101451 | NANOTTICA 1.4ft VP ABS 6400/840 DALI |
| 101452 | NANOTTICA 1.5ft VP ABS 3250/840 DALI |
| 101453 | NANOTTICA 1.5ft VP ABS 4000/840 DALI |
| 101454 | NANOTTICA 1.5ft VP ABS 5500/840 DALI |
| 101455 | NANOTTICA 1.5ft VP ABS 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| x | x | x |
| x | x | x |
| x | x | x |
| 101459 | 101467 | 101475 |
| 101460 | 101468 | 101476 |
| 101461 | 101469 | 101477 |
| 101462 | 101470 | 101478 |
| 101463 | 101471 | 101479 |
| 101464 | 101472 | 101480 |
| 101465 | 101473 | 101481 |
| 101466 | 101474 | 101482 |

NANOTTICA VP ABSc DALI

| Code | Type |
|--------|---------------------------------------|
| 101483 | NANOTTICA 1.2ft VP ABSc 1300/840 DALI |
| 101484 | NANOTTICA 1.2ft VP ABSc 1600/840 DALI |
| 101485 | NANOTTICA 1.2ft VP ABSc 2200/840 DALI |
| 101486 | NANOTTICA 1.4ft VP ABSc 2600/840 DALI |
| 101487 | NANOTTICA 1.4ft VP ABSc 3200/840 DALI |
| 101488 | NANOTTICA 1.4ft VP ABSc 4400/840 DALI |
| 101489 | NANOTTICA 1.4ft VP ABSc 6400/840 DALI |
| 101490 | NANOTTICA 1.5ft VP ABSc 3250/840 DALI |
| 101491 | NANOTTICA 1.5ft VP ABSc 4000/840 DALI |
| 101492 | NANOTTICA 1.5ft VP ABSc 5500/840 DALI |
| 101493 | NANOTTICA 1.5ft VP ABSc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| x | x | x |
| x | x | x |
| x | x | x |
| 101497 | 101505 | 101513 |
| 101498 | 101506 | 101514 |
| 101499 | 101507 | 101515 |
| 101500 | 101508 | 101516 |
| 101501 | 101509 | 101517 |
| 101502 | 101510 | 101518 |
| 101503 | 101511 | 101519 |
| 101504 | 101512 | 101520 |

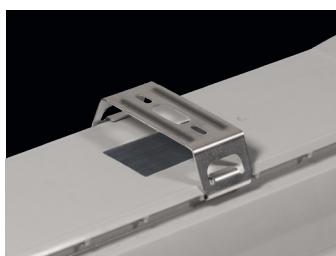
LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



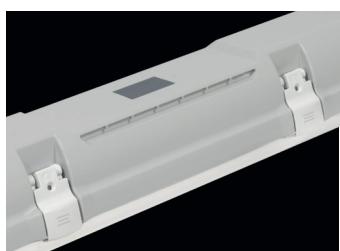
VARIABLE INSTALLATION PITCH

NANOTTICA VP ABS



LIGHT FITTING DETAILED VIEW

NANOTTICA VP ABS



NANOTTICA MAX



... for extreme temperatures -40 °C to +65 °C,
ceiling height from 3.5 to 8 m.

USE

The fixture boasts a **low unified glare rating with UGR values** its patented nano optics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

The fitting's **standard beam angle** makes it a great choice for premises with an optimum fitting installation height of **3.5 to 8 m**.

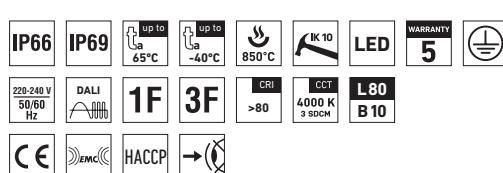
Designed to be installed indoors, in sheltered outdoor spaces as well as in spaces **with extreme ambient temperatures as low as -40 °C or as high as +65 °C**. A ventilation membrane equalizes pressures while blocking water and contaminants that build up inside of the fitting as a result of temperature fluctuations. Highly recommended for **heating plants, metallurgical plants, glassworks, freezing plants, cooling plants** and other spaces with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 19,8 to 22,1**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from **ta = -40°C to ta = 65°C**
- Lifetime: 50 000 hours / L80B10
- Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **HACCP**



NANOTTICA MAX PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: $ta = -40^{\circ}\text{C}$
- Maximum ambient temperature: $ta = 65^{\circ}\text{C}$
- Lifetime: 50 000 hours / L80B10
- Maximum light fitting efficiency: **157 lm/W**
- **UGR ranging from 19,8 to 22,1**
- Optimum luminaire installation height **from 3,5 to 8 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nano optics** (high mechanical resistance, UV stability)

- Body: grey PC (high mechanical resistance, UV stability)
- **A ventilation membrane** in the base equalizes pressures while blocking water and contaminants
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of $\pm 7.5\%$

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | UGR EVALUATED FOR | | NANOTTICA 1.5ft MAX |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|-------------------|------------|---------------------|
| | | | | | | | | X = 4 H, Y = 8 H | S = 0.25 H | |
| Up to ambient temperature $ta = 65^{\circ}\text{C}$ - body: grey polycarbonate - diffusor with nano optics (standard beam angle), transparent polycarbonate | | | | | | | | | | |
| NANOTTICA 1.4ft MAX PCc 3200/840 | 65 | 3100 | 2910 | 19,1 | 152 | 19.8 / 20.9 | 1,7 | 1170 | 700 - 960 | |
| NANOTTICA 1.4ft MAX PCc 4400/840 | 60 | 4300 | 4040 | 26,0 | 155 | 21.0 / 22.1 | 1,7 | 1170 | 700 - 960 | |
| NANOTTICA 1.5ft MAX PCc 4000/840 | 65 | 3850 | 3620 | 23,3 | 155 | 19.9 / 21.0 | 2,0 | 1450 | 970 - 1230 | |
| NANOTTICA 1.5ft MAX PCc 5500/840 | 60 | 5340 | 5020 | 31,9 | 157 | 21.0 / 22.1 | 2,0 | 1450 | 970 - 1230 | |

NANOTTICA MAX PCc

Non-dimmable driver - stainless clips (c)

| Code | Type | 1F | 3F | M1h | M3h | DALI | DALI 3F |
|--------|----------------------------------|--------|--------|-----|-----|--------|---------|
| 101521 | NANOTTICA 1.4ft MAX PCc 3200/840 | 101525 | 101529 | x | x | 101533 | 101537 |
| 101522 | NANOTTICA 1.4ft MAX PCc 4400/840 | 101526 | 101530 | x | x | 101534 | 101538 |
| 101523 | NANOTTICA 1.5ft MAX PCc 4000/840 | 101527 | 101531 | x | x | 101535 | 101539 |
| 101524 | NANOTTICA 1.5ft MAX PCc 5500/840 | 101528 | 101532 | x | x | 101536 | 101540 |

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



VARIABLE INSTALLATION PITCH

NANOTTICA MAX



LIGHT FITTING DETAILED VIEW

NANOTTICA MAX



NANOTTICA CLASS II



... class II insulation, ceiling height from 3.5 to 8 m, impact resistant.

USE

The fixture boasts a **low unified glare rating with UGR values** its patented nano optics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

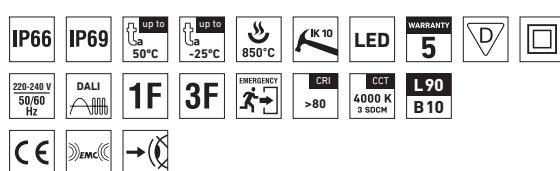
Its **standard beam angle** makes it a perfect choice for premises with an optimum luminaire installation height of **3.5 to 8 m**. The fixture is intended for indoor spaces, **industrial and agricultural buildings, warehouses, rail vehicle maintenance facilities, platforms, substations, depots, car parks, garages, workshops and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 19,1 to 23,4**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to **$t_a = 50^{\circ}\text{C}$**
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 6 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version



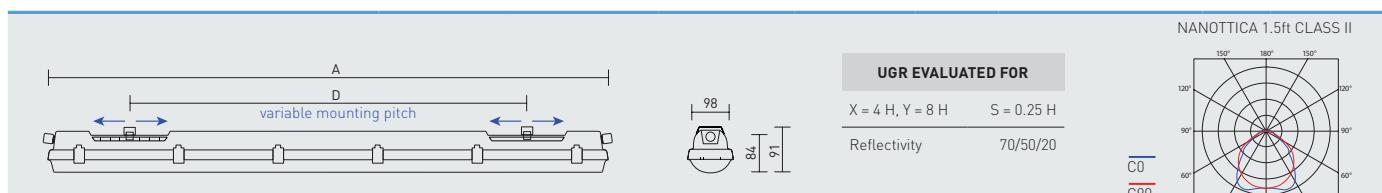
NANOTTICA CLASS II PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **165 lm/W**
- **UGR ranging from 19,1 to 23,4**
- Optimum luminaire installation height **from 3.5 to 8 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nano optics** (high mechanical resistance, UV stability)

- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Connectors with 2, 4 or 6 poles, wire section 1.5 or 2.5 mm²
- The package includes the opposite of the counterpart
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffusor with nano optics (standard beam angle), transparent polycarbonate | | | | | | | | | |
| NANOTTICA 1.2ft CLASS II PC 1300/840 | 50 | 1310 | 1230 | 8,2 | 150 | 19.1 / 20.0 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.2ft CLASS II PC 1600/840 | 50 | 1560 | 1470 | 9,8 | 150 | 19.7 / 20.7 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.2ft CLASS II PC 2200/840 | 45 | 2140 | 2010 | 13,2 | 152 | 20.8 / 21.7 | 0,9 | 610 | 110 - 370 |
| NANOTTICA 1.4ft CLASS II PC 2600/840 | 50 | 2600 | 2440 | 16,1 | 152 | 19.2 / 20.3 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft CLASS II PC 3200/840 | 50 | 3100 | 2910 | 19,1 | 152 | 19.8 / 20.9 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft CLASS II PC 4400/840 | 45 | 4300 | 4040 | 26,0 | 155 | 21.0 / 22.1 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft CLASS II PC 6400/840 | 45 | 6120 | 5750 | 36,1 | 159 | 22.2 / 23.3 | 1,7 | 1170 | 700 - 960 |
| NANOTTICA 1.5ft CLASS II PC 3250/840 | 50 | 3240 | 3050 | 19,5 | 156 | 19.3 / 20.4 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft CLASS II PC 4000/840 | 50 | 3850 | 3620 | 23,3 | 155 | 19.9 / 21.0 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft CLASS II PC 5500/840 | 45 | 5340 | 5020 | 31,9 | 157 | 21.0 / 22.1 | 2,0 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft CLASS II PC 8000/840 | 45 | 7780 | 7310 | 44,3 | 165 | 22.3 / 23.4 | 2,0 | 1450 | 970 - 1230 |

NANOTTICA CLASS II PC

| Code | Type |
|--------|--------------------------------------|
| 101813 | NANOTTICA 1.2ft CLASS II PC 1300/840 |
| 101814 | NANOTTICA 1.2ft CLASS II PC 1600/840 |
| 101815 | NANOTTICA 1.2ft CLASS II PC 2200/840 |
| 101816 | NANOTTICA 1.4ft CLASS II PC 2600/840 |
| 101817 | NANOTTICA 1.4ft CLASS II PC 3200/840 |
| 101818 | NANOTTICA 1.4ft CLASS II PC 4400/840 |
| 101819 | NANOTTICA 1.4ft CLASS II PC 6400/840 |
| 101820 | NANOTTICA 1.5ft CLASS II PC 3250/840 |
| 101821 | NANOTTICA 1.5ft CLASS II PC 4000/840 |
| 101822 | NANOTTICA 1.5ft CLASS II PC 5500/840 |
| 101823 | NANOTTICA 1.5ft CLASS II PC 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 101824 | 101835 | x | x | x | x |
| 101825 | 101836 | x | x | x | x |
| 101826 | 101837 | x | x | x | x |
| 101827 | 101838 | 101846 | 101854 | 101862 | 101870 |
| 101828 | 101839 | 101847 | 101855 | 101863 | 101871 |
| 101829 | 101840 | 101848 | 101856 | 101864 | 101872 |
| 101830 | 101841 | 101849 | 101857 | 101865 | 101873 |
| 101831 | 101842 | 101850 | 101858 | 101866 | 101874 |
| 101832 | 101843 | 101851 | 101859 | 101867 | 101875 |
| 101833 | 101844 | 101852 | 101860 | 101868 | 101876 |
| 101834 | 101845 | 101853 | 101861 | 101869 | 101877 |

NANOTTICA CLASS II PCc

| Code | Type |
|--------|---------------------------------------|
| 101878 | NANOTTICA 1.2ft CLASS II PCc 1300/840 |
| 101879 | NANOTTICA 1.2ft CLASS II PCc 1600/840 |
| 101880 | NANOTTICA 1.2ft CLASS II PCc 2200/840 |
| 101881 | NANOTTICA 1.4ft CLASS II PCc 2600/840 |
| 101882 | NANOTTICA 1.4ft CLASS II PCc 3200/840 |
| 101883 | NANOTTICA 1.4ft CLASS II PCc 4400/840 |
| 101884 | NANOTTICA 1.4ft CLASS II PCc 6400/840 |
| 101885 | NANOTTICA 1.5ft CLASS II PCc 3250/840 |
| 101886 | NANOTTICA 1.5ft CLASS II PCc 4000/840 |
| 101887 | NANOTTICA 1.5ft CLASS II PCc 5500/840 |
| 101888 | NANOTTICA 1.5ft CLASS II PCc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 101889 | 101900 | x | x | x | x |
| 101890 | 101901 | x | x | x | x |
| 101891 | 101902 | x | x | x | x |
| 101892 | 101903 | 101911 | 101919 | 101927 | 101935 |
| 101893 | 101904 | 101912 | 101920 | 101928 | 101936 |
| 101894 | 101905 | 101913 | 101921 | 101929 | 101937 |
| 101895 | 101906 | 101914 | 101922 | 101930 | 101938 |
| 101896 | 101907 | 101915 | 101923 | 101931 | 101939 |
| 101897 | 101908 | 101916 | 101924 | 101932 | 101940 |
| 101898 | 101909 | 101917 | 101925 | 101933 | 101941 |
| 101899 | 101910 | 101918 | 101926 | 101934 | 101942 |

NANOTTICA CLASS II PC DALI

| Code | Type |
|--------|---|
| 101943 | NANOTTICA 1.2ft CLASS II PC 1300/840 DALI |
| 101944 | NANOTTICA 1.2ft CLASS II PC 1600/840 DALI |
| 101945 | NANOTTICA 1.2ft CLASS II PC 2200/840 DALI |
| 101946 | NANOTTICA 1.4ft CLASS II PC 2600/840 DALI |
| 101947 | NANOTTICA 1.4ft CLASS II PC 3200/840 DALI |
| 101948 | NANOTTICA 1.4ft CLASS II PC 4400/840 DALI |
| 101949 | NANOTTICA 1.4ft CLASS II PC 6400/840 DALI |
| 101950 | NANOTTICA 1.5ft CLASS II PC 3250/840 DALI |
| 101951 | NANOTTICA 1.5ft CLASS II PC 4000/840 DALI |
| 101952 | NANOTTICA 1.5ft CLASS II PC 5500/840 DALI |
| 101953 | NANOTTICA 1.5ft CLASS II PC 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 101954 | x | x | x | x | x |
| 101955 | x | x | x | x | x |
| 101956 | x | x | x | x | x |
| 101957 | 101968 | 101976 | 101984 | 101992 | 102000 |
| 101958 | 101969 | 101977 | 101985 | 101993 | 102001 |
| 101959 | 101970 | 101978 | 101986 | 101994 | 102002 |
| 101960 | 101971 | 101979 | 101987 | 101995 | 102003 |
| 101961 | 101972 | 101980 | 101988 | 101996 | 102004 |
| 101962 | 101973 | 101981 | 101989 | 101997 | 102005 |
| 101963 | 101974 | 101982 | 101990 | 101998 | 102006 |
| 101964 | 101975 | 101983 | 101991 | 101999 | 102007 |

NANOTTICA CLASS II PCc DALI

| Code | Type |
|--------|--|
| 102008 | NANOTTICA 1.2ft CLASS II PCc 1300/840 DALI |
| 102009 | NANOTTICA 1.2ft CLASS II PCc 1600/840 DALI |
| 102010 | NANOTTICA 1.2ft CLASS II PCc 2200/840 DALI |
| 102011 | NANOTTICA 1.4ft CLASS II PCc 2600/840 DALI |
| 102012 | NANOTTICA 1.4ft CLASS II PCc 3200/840 DALI |
| 102013 | NANOTTICA 1.4ft CLASS II PCc 4400/840 DALI |
| 102014 | NANOTTICA 1.4ft CLASS II PCc 6400/840 DALI |
| 102015 | NANOTTICA 1.5ft CLASS II PCc 3250/840 DALI |
| 102016 | NANOTTICA 1.5ft CLASS II PCc 4000/840 DALI |
| 102017 | NANOTTICA 1.5ft CLASS II PCc 5500/840 DALI |
| 102018 | NANOTTICA 1.5ft CLASS II PCc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 102019 | x | x | x | x | x |
| 102020 | x | x | x | x | x |
| 102021 | x | x | x | x | x |
| 102022 | 102033 | 102041 | 102049 | 102057 | 102065 |
| 102023 | 102034 | 102042 | 102050 | 102058 | 102066 |
| 102024 | 102035 | 102043 | 102051 | 102059 | 102067 |
| 102025 | 102036 | 102044 | 102052 | 102060 | 102068 |
| 102026 | 102037 | 102045 | 102053 | 102061 | 102069 |
| 102027 | 102038 | 102046 | 102054 | 102062 | 102070 |
| 102028 | 102039 | 102047 | 102055 | 102063 | 102071 |
| 102029 | 102040 | 102048 | 102056 | 102064 | 102072 |

LEGEND

CLASS II 1F

1-phase 2 core through-wiring in the luminaire

CLASS II 3F

3-phase 4 core through-wiring in the luminaire

M1h

emergency back-up source with 1 hour operating time for maintained emergency illumination

M3h

emergency back-up source with 3 hour operating time for maintained emergency illumination

CLASS II 3F Mxh

3-phase 4 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

DALI

version with digital dimmable driver DALI

CLASS II DALI 1F

1-phase 4 core through-wiring in the luminaire

CLASS II DALI 3F

3-phase 6 core through-wiring in the luminaire

CLASS II DALI 3F Mxh

3-phase 6 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**VARIABLE INSTALLATION PITCH**

NANOTTICA CLASS II

**LIGHT FITTING DETAILED VIEW**

NANOTTICA CLASS II



NANOTTICA SNS



... with movement detector, ceiling height from 3.5 to 6 m.

USE

The fixture boasts a **low unified glare rating with UGR values** its patented nano optics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly translates into higher productivity.

Highly recommended also for **illumination of spaces where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as visual inspection areas. Its **standard beam angle with the sensor** makes it a perfect choice for premises with an optimum luminaire installation height of **3.5 to 6 m**.

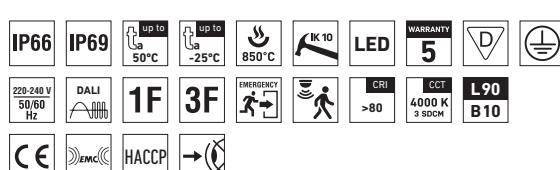
It is designed for indoor spaces, **industrial premises, agricultural buildings, warehouses as well as sports facilities, transport hubs, car parks and garages, workshops and laboratories** with no explosion hazard. IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Includes an in-built **microwave motion sensor**
- Low **UGR ranging from 18,9 to 23,1**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^\circ\text{C}$ to $t_a = 50^\circ\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in dimmable version
- Certificates: **HACCP**



NANOTTICA SNS PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-25 °C** for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **165 lm/W**
- **UGR ranging from 18,9 to 23,1**
- Optimum luminaire installation height **from 3,5 to 6 m**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **transparent PC with nanooptics** (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)

- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- **Motion sensor:** 360° range, switch on height 1 – 6 m, time range 5 sec – 30 min, switch-on sensitivity 2 – 50 lux
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|---|------------|
| | | | | | | | | X = 4 H, Y = 8 H S = 0.25 H 70/50/20 | |
| Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffuser with nanooptics (standard beam angle), transparent polycarbonate | | | | | | | | | |
| NANOTTICA 1.4ft SNS PC 2600/840 | 50 | 2340 | 2200 | 14,4 | 153 | 18.9 / 20.0 | 1,8 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft SNS PC 3200/840 | 50 | 2790 | 2620 | 17,1 | 153 | 19.5 / 20.6 | 1,8 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft SNS PC 4400/840 | 45 | 3840 | 3610 | 23,2 | 156 | 20.6 / 21.7 | 1,8 | 1170 | 700 - 960 |
| NANOTTICA 1.4ft SNS PC 6400/840 | 45 | 5510 | 5180 | 32,4 | 160 | 21.8 / 22.9 | 1,8 | 1170 | 700 - 960 |
| NANOTTICA 1.5ft SNS PC 3250/840 | 50 | 2980 | 2800 | 17,9 | 156 | 19.0 / 20.1 | 2,1 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft SNS PC 4000/840 | 50 | 3540 | 3330 | 21,4 | 156 | 19.6 / 20.7 | 2,1 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft SNS PC 5500/840 | 45 | 4880 | 4590 | 29,1 | 158 | 20.7 / 21.8 | 2,1 | 1450 | 970 - 1230 |
| NANOTTICA 1.5ft SNS PC 8000/840 | 45 | 7160 | 6730 | 40,7 | 165 | 22.0 / 23.1 | 2,1 | 1450 | 970 - 1230 |

NANOTTICA SNS PC

| Code | Type |
|--------|---------------------------------|
| 102073 | NANOTTICA 1.4ft SNS PC 2600/840 |
| 102074 | NANOTTICA 1.4ft SNS PC 3200/840 |
| 102075 | NANOTTICA 1.4ft SNS PC 4400/840 |
| 102076 | NANOTTICA 1.4ft SNS PC 6400/840 |
| 102077 | NANOTTICA 1.5ft SNS PC 3250/840 |
| 102078 | NANOTTICA 1.5ft SNS PC 4000/840 |
| 102079 | NANOTTICA 1.5ft SNS PC 5500/840 |
| 102080 | NANOTTICA 1.5ft SNS PC 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 102081 | 102089 | 102097 | 102105 | 102111 | 102119 |
| 102082 | 102090 | 102098 | 102106 | 102112 | 102120 |
| 102083 | 102091 | 102099 | 102107 | 102113 | 102121 |
| 102084 | 102092 | 102100 | 103647 | 102114 | 103648 |
| 102085 | 102093 | 102101 | 102108 | 102115 | 102122 |
| 102086 | 102094 | 102102 | 102109 | 102116 | 102123 |
| 102087 | 102095 | 102103 | 102110 | 102117 | 102124 |
| 102088 | 102096 | 102104 | 103649 | 102118 | 103418 |

NANOTTICA SNS PCc

| Code | Type |
|--------|----------------------------------|
| 102125 | NANOTTICA 1.4ft SNS PCc 2600/840 |
| 102126 | NANOTTICA 1.4ft SNS PCc 3200/840 |
| 102127 | NANOTTICA 1.4ft SNS PCc 4400/840 |
| 102128 | NANOTTICA 1.4ft SNS PCc 6400/840 |
| 102129 | NANOTTICA 1.5ft SNS PCc 3250/840 |
| 102130 | NANOTTICA 1.5ft SNS PCc 4000/840 |
| 102131 | NANOTTICA 1.5ft SNS PCc 5500/840 |
| 102132 | NANOTTICA 1.5ft SNS PCc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 102133 | 102141 | 102149 | 102157 | 102163 | 102171 |
| 102134 | 102142 | 102150 | 102158 | 102164 | 102172 |
| 102135 | 102143 | 102151 | 102159 | 102165 | 102173 |
| 102136 | 102144 | 102152 | 103419 | 102166 | 103420 |
| 102137 | 102145 | 102153 | 102160 | 102167 | 102174 |
| 102138 | 102146 | 102154 | 102161 | 102168 | 102175 |
| 102139 | 102147 | 102155 | 102162 | 102169 | 102176 |
| 102140 | 102148 | 102156 | 103421 | 102170 | 103422 |

NANOTTICA SNS PC CORRIDOR

| Code | Type |
|--------|--|
| 102177 | NANOTTICA 1.4ft SNS PC 2600/840 CORRIDOR |
| 102178 | NANOTTICA 1.4ft SNS PC 3200/840 CORRIDOR |
| 102179 | NANOTTICA 1.4ft SNS PC 4400/840 CORRIDOR |
| 102180 | NANOTTICA 1.4ft SNS PC 6400/840 CORRIDOR |
| 102181 | NANOTTICA 1.5ft SNS PC 3250/840 CORRIDOR |
| 102182 | NANOTTICA 1.5ft SNS PC 4000/840 CORRIDOR |
| 102183 | NANOTTICA 1.5ft SNS PC 5500/840 CORRIDOR |
| 102184 | NANOTTICA 1.5ft SNS PC 8000/840 CORRIDOR |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 102185 | 102193 | 102201 | 106717 | 102212 | 106720 |
| 102186 | 102194 | 102202 | 106718 | 102213 | 106721 |
| 102187 | 102195 | 102203 | 106719 | 102214 | 106722 |
| 102188 | 102196 | 102204 | 103635 | 102215 | 103637 |
| 102189 | 102197 | 102205 | 102209 | 102216 | 102220 |
| 102190 | 102198 | 102206 | 102210 | 102217 | 102221 |
| 102191 | 102199 | 102207 | 102211 | 102218 | 102222 |
| 102192 | 102200 | 102208 | 103636 | 102219 | 103638 |

NANOTTICA SNS PCc CORRIDOR

| Code | Type |
|--------|---|
| 102223 | NANOTTICA 1.4ft SNS PCc 2600/840 CORRIDOR |
| 102224 | NANOTTICA 1.4ft SNS PCc 3200/840 CORRIDOR |
| 102225 | NANOTTICA 1.4ft SNS PCc 4400/840 CORRIDOR |
| 102226 | NANOTTICA 1.4ft SNS PCc 6400/840 CORRIDOR |
| 102227 | NANOTTICA 1.5ft SNS PCc 3250/840 CORRIDOR |
| 102228 | NANOTTICA 1.5ft SNS PCc 4000/840 CORRIDOR |
| 102229 | NANOTTICA 1.5ft SNS PCc 5500/840 CORRIDOR |
| 102230 | NANOTTICA 1.5ft SNS PCc 8000/840 CORRIDOR |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 102231 | 102239 | 102247 | 106723 | 102265 | 106726 |
| 102232 | 102240 | 102248 | 106724 | 102266 | 106727 |
| 102233 | 102241 | 102256 | 106725 | 102267 | 106728 |
| 102234 | 102242 | 102257 | 103639 | 102268 | 103641 |
| 102235 | 102243 | 102258 | 102262 | 102269 | 102273 |
| 102236 | 102244 | 102259 | 102263 | 102270 | 102274 |
| 102237 | 102245 | 102260 | 102264 | 102271 | 102275 |
| 102238 | 102246 | 102261 | 103640 | 102272 | 103642 |

LEGEND

SNS 1F

1-phase 3 core through-wiring in the luminaire for connection of max. 5 slave luminaires

SNS 3F

3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor connected to L3)

M1h

emergency back-up source with 1 hour operating time for maintained emergency illumination

M3h

emergency back-up source with 3 hour operating time for maintained emergency illumination

SNS 3F Mxh

3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor and emergency unit connected to L3)

CORRIDOR

version with digital dimmable driver DALI and set corridor function

CORRIDOR 1F

1-phase 5 core through-wiring in the luminaire for connection of max. 20 luminaires

CORRIDOR 3F

3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L3)

CORRIDOR 3F Mxh

3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor and emergency unit connected to L3)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



VARIABLE INSTALLATION PITCH

NANOTTICA SNS



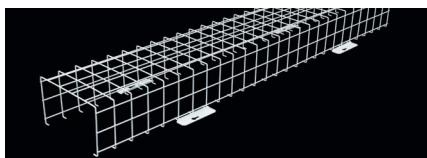
LIGHT FITTING DETAILED VIEW

NANOTTICA SNS



OM – protective grid

The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws. The surface is treated with the RAL 9003 powder-coated colour.



| Code | Type | Description | Weight [kg] |
|-------|--------|---|-------------|
| 11941 | OM 218 | protective grid for types 218, 214/224, 2.2ft (700×220×130 mm) | 1,0 |
| 11942 | OM 236 | protective grid for types 236, 228/254, 2.4ft (1300×220×130 mm) | 1,7 |
| 11943 | OM 258 | protective grid for types 258, 235/249/280, 2.5ft (1600×220×130 mm) | 2,0 |

BZ – side hanger

It serves to attach the light fitting to the wall with the possibility of its positioning.



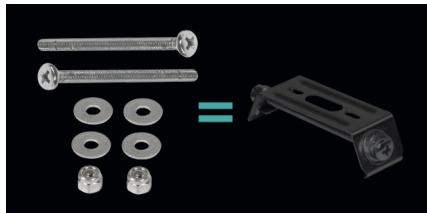
| Code | Type | Description | Weight [kg] |
|-------|------|---|-------------|
| 90002 | BZ | side hanger with blocking (set for 1 light fitting) | 0,4 |

Canalis busbar system connector

The connector enables a quick 1 phase or 3 phase interconnection of light fittings without their opening.

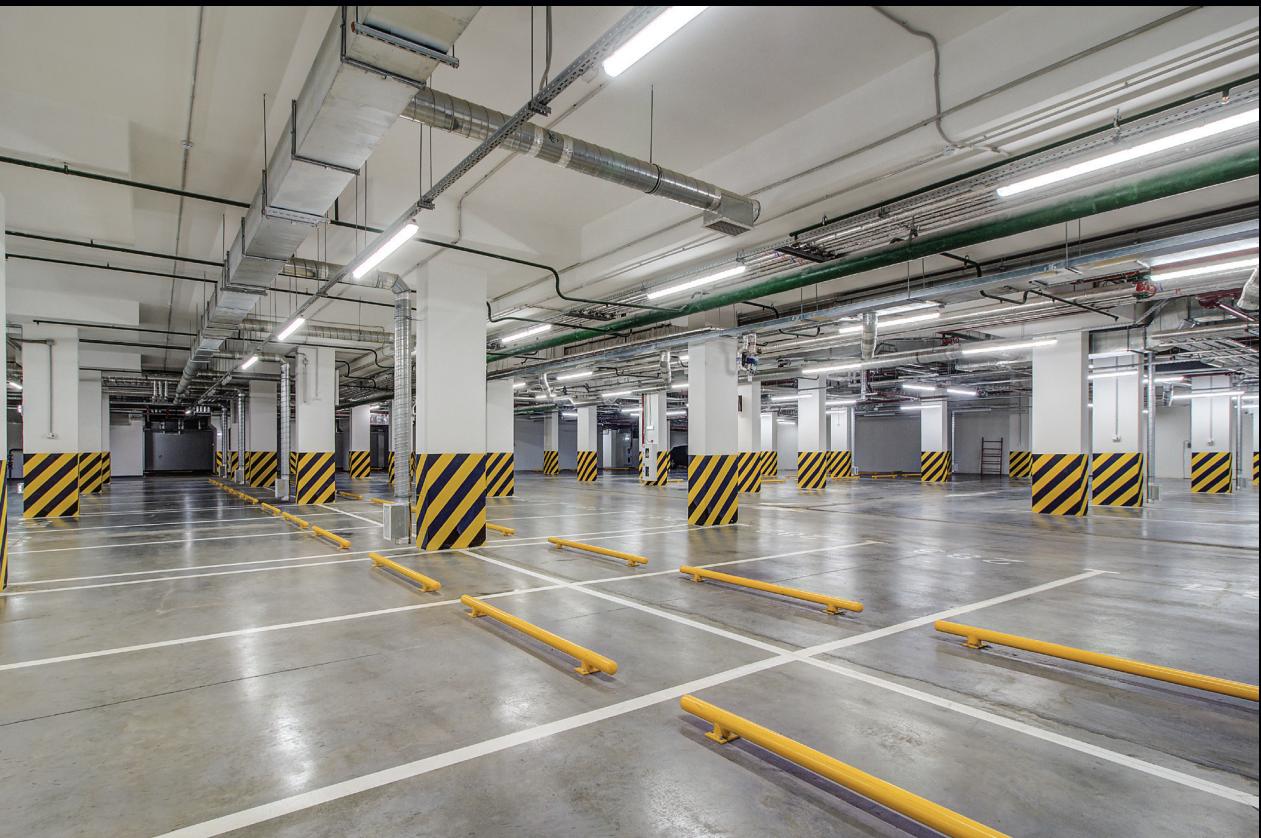


| Code | Type | Description | Weight [kg] |
|-------|--------------|---|-------------|
| 79001 | KBA 40 ZU | light fitting suspended holder - Canalis KBA system | 0,1 |
| 70002 | KBC 10 CC211 | connector with 1 m cable - Canalis KBA system | 0,2 |

Locking set for bracket G3

| Code | Type | Description | Weight [kg] |
|-------|--------|---|-------------|
| 11553 | G3 SET | a locking set for G3 stainless steel bracket (bolts, nuts, washers) | 0,2 |

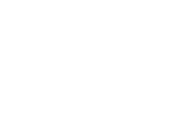
PRIMA



INDUSTRIAL
PLASTIC
DUSTPROOF
WATERPROOF
IMPACT RESISTANT



PRIMA – industrial plastic LED light fitting

| | | | |
|--|---|--------------------------------------|---|
| PRIMA BASIC VERSION page 78 |  | PRIMA ACCESSORIES page 105 |  |
| IP66 IP69 | PRIMA PC, PCc page 78 | IP66 IP69 | PRIMA ACCESSORIES page 105 |
| PRIMA FOR OUTDOOR SHELTERED SPACES page 81 |  | PRIMA VP PC, PCc page 81 |  |
| IP66 IP69 | PRIMA VP PC, PCc page 81 | IP66 IP69 | PRIMA ACCESSORIES page 105 |
| PRIMA CHEMICALLY RESISTANT VERSION page 84 |  | PRIMA ABS, ABSc page 84 |  |
| IP66 IP69 | PRIMA ABS, ABSc page 84 | IP66 IP69 | PRIMA ACCESSORIES page 105 |
| PRIMA FOR OUTDOOR SHELTERED SPACES, CHEMICALLY RESISTANT VERSION page 87 |  | PRIMA VP ABS, ABSc page 87 |  |
| IP66 IP69 | PRIMA VP ABS, ABSc page 87 | IP66 IP69 | PRIMA ACCESSORIES page 105 |
| PRIMA VALUE BASIC VERSION page 90 |  | PRIMA VALUE PC, PCc page 90 |  |
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| PRIMA VALUE CHEMICALLY RESISTANT VERSION page 93 |  | PRIMA VALUE ABS, ABSc page 93 |  |
| IP66 | PRIMA VALUE ABS, ABSc page 93 | IP66 IP69 | PRIMA ACCESSORIES page 105 |
| PRIMA WITH CLASS II INSULATION page 96 |  | PRIMA CLASS II PC, PCc page 96 |  |
| IP66 IP69 | PRIMA CLASS II PC, PCc page 96 | IP66 IP69 | PRIMA ACCESSORIES page 105 |
| PRIMA EXCEPTIONALLY LOW UGR page 99 |  | PRIMA TRS PC, PCc page 99 |  |
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| PRIMA WITH MOTION DETECTOR page 102 |  | PRIMA SNS PC, PCc page 102 |  |
| IP66 IP69 | PRIMA SNS PC, PCc page 102 | IP66 IP69 | PRIMA ACCESSORIES page 105 |

PRIMA

NEW



... dustproof, waterproof and impact resistant.

USE

It is designed for indoor spaces, **industrial premises, agricultural buildings, warehouses as well as sports facilities, transport hubs, car parks and garages, workshops and laboratories** with no explosion hazard.

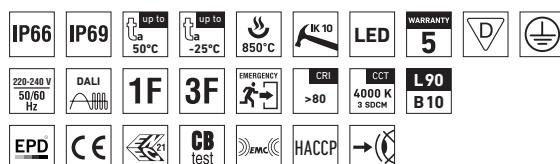
IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 50^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Certificates: **EPD, ENEC, CB, HACCP**



PRIMA PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-25 °C** for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **163 lm/W**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **translucent PC** (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)

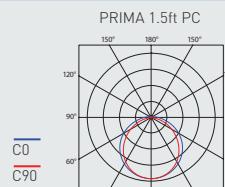
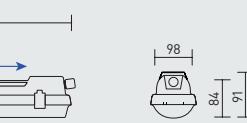
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | |
| PRIMA 1.2ft PC 1300/840 | 50 | 1310 | 1220 | 8,2 | 149 | 22.2 / 21.4 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.2ft PC 1600/840 | 50 | 1560 | 1450 | 9,8 | 148 | 22.8 / 22.0 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.2ft PC 2200/840 | 45 | 2140 | 1990 | 13,2 | 151 | 23.9 / 23.1 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.4ft PC 2600/840 | 50 | 2600 | 2420 | 16,1 | 150 | 22.3 / 21.5 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft PC 3200/840 | 50 | 3100 | 2880 | 19,1 | 151 | 22.9 / 22.1 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft PC 4400/840 | 45 | 4300 | 4000 | 26,0 | 154 | 24.1 / 23.2 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft PC 6400/840 | 45 | 6120 | 5690 | 36,1 | 158 | 25.3 / 24.5 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft PC 8000/840 | 35 | 8050 | 7490 | 47,3 | 158 | 26.3 / 25.4 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.5ft PC 3250/840 | 50 | 3240 | 3010 | 19,5 | 154 | 22.4 / 21.5 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft PC 4000/840 | 50 | 3850 | 3580 | 23,3 | 154 | 23.0 / 22.1 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft PC 5500/840 | 45 | 5340 | 4970 | 31,9 | 156 | 24.1 / 23.3 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft PC 8000/840 | 45 | 7780 | 7240 | 44,3 | 163 | 25.4 / 24.6 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft PC 10000/840 | 35 | 9890 | 9200 | 58,6 | 157 | 26.2 / 25.4 | 2,0 | 1450 | 970 - 1230 |

PRIMA PC

Non-dimmable driver - plastic clips

| Code | Type |
|--------|--------------------------|
| 105245 | PRIMA 1.2ft PC 1300/840 |
| 105246 | PRIMA 1.2ft PC 1600/840 |
| 105247 | PRIMA 1.2ft PC 2200/840 |
| 105248 | PRIMA 1.4ft PC 2600/840 |
| 105249 | PRIMA 1.4ft PC 3200/840 |
| 105250 | PRIMA 1.4ft PC 4400/840 |
| 105251 | PRIMA 1.4ft PC 6400/840 |
| 106797 | PRIMA 1.4ft PC 8000/840 |
| 105252 | PRIMA 1.5ft PC 3250/840 |
| 105253 | PRIMA 1.5ft PC 4000/840 |
| 105254 | PRIMA 1.5ft PC 5500/840 |
| 105255 | PRIMA 1.5ft PC 8000/840 |
| 106798 | PRIMA 1.5ft PC 10000/840 |



| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 105256 | 105267 | x | x | x | x |
| 105257 | 105268 | x | x | x | x |
| 105258 | 105269 | x | x | x | x |
| 105259 | 105270 | 105278 | 105286 | 105294 | 105302 |
| 105260 | 105271 | 105279 | 105287 | 105295 | 105303 |
| 105261 | 105272 | 105280 | 105288 | 105296 | 105304 |
| 105262 | 105273 | 105281 | 105289 | 105297 | 105305 |
| 106799 | 106801 | x | x | x | x |
| 105263 | 105274 | 105282 | 105290 | 105298 | 105306 |
| 105264 | 105275 | 105283 | 105291 | 105299 | 105307 |
| 105265 | 105276 | 105284 | 105292 | 105300 | 105308 |
| 105266 | 105277 | 105285 | 105293 | 105301 | 105309 |
| 106800 | 106802 | x | x | x | x |

PRIMA PCc

Non-dimmable driver - stainless clips (c)

| Code | Type |
|--------|---------------------------|
| 105310 | PRIMA 1.2ft PCc 1300/840 |
| 105311 | PRIMA 1.2ft PCc 1600/840 |
| 105312 | PRIMA 1.2ft PCc 2200/840 |
| 105313 | PRIMA 1.4ft PCc 2600/840 |
| 105314 | PRIMA 1.4ft PCc 3200/840 |
| 105315 | PRIMA 1.4ft PCc 4400/840 |
| 105316 | PRIMA 1.4ft PCc 6400/840 |
| 106803 | PRIMA 1.4ft PCc 8000/840 |
| 105317 | PRIMA 1.5ft PCc 3250/840 |
| 105318 | PRIMA 1.5ft PCc 4000/840 |
| 105319 | PRIMA 1.5ft PCc 5500/840 |
| 105320 | PRIMA 1.5ft PCc 8000/840 |
| 106804 | PRIMA 1.5ft PCc 10000/840 |

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 105321 | 105332 | x | x | x | x |
| 105322 | 105333 | x | x | x | x |
| 105323 | 105334 | x | x | x | x |
| 105324 | 105335 | 105343 | 105351 | 105359 | 105367 |
| 105325 | 105336 | 105344 | 105352 | 105360 | 105368 |
| 105326 | 105337 | 105345 | 105353 | 105361 | 105369 |
| 105327 | 105338 | 105346 | 105354 | 105362 | 105370 |
| 106805 | 106807 | x | x | x | x |
| 105328 | 105339 | 105347 | 105355 | 105363 | 105371 |
| 105329 | 105340 | 105348 | 105356 | 105364 | 105372 |
| 105330 | 105341 | 105349 | 105357 | 105365 | 105373 |
| 105331 | 105342 | 105350 | 105358 | 105366 | 105374 |
| 106806 | 106808 | x | x | x | x |

PRIMA PC DALI

| Code | Type |
|--------|-------------------------------|
| 105375 | PRIMA 1.2ft PC 1300/840 DALI |
| 105376 | PRIMA 1.2ft PC 1600/840 DALI |
| 105377 | PRIMA 1.2ft PC 2200/840 DALI |
| 105378 | PRIMA 1.4ft PC 2600/840 DALI |
| 105379 | PRIMA 1.4ft PC 3200/840 DALI |
| 105380 | PRIMA 1.4ft PC 4400/840 DALI |
| 105381 | PRIMA 1.4ft PC 6400/840 DALI |
| 106809 | PRIMA 1.4ft PC 8000/840 DALI |
| 105382 | PRIMA 1.5ft PC 3250/840 DALI |
| 105383 | PRIMA 1.5ft PC 4000/840 DALI |
| 105384 | PRIMA 1.5ft PC 5500/840 DALI |
| 105385 | PRIMA 1.5ft PC 8000/840 DALI |
| 106810 | PRIMA 1.5ft PC 10000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 105386 | x | x | x | x | x |
| 105387 | x | x | x | x | x |
| 105388 | x | x | x | x | x |
| 105389 | 105400 | 105408 | 105416 | 105424 | 106653 |
| 105390 | 105401 | 105409 | 105417 | 105425 | 106654 |
| 105391 | 105402 | 105410 | 105418 | 105426 | 106655 |
| 105392 | 105403 | 105411 | 105419 | 105427 | 106656 |
| 106811 | 106813 | x | x | x | x |
| 105393 | 105404 | 105412 | 105420 | 105428 | 105432 |
| 105394 | 105405 | 105413 | 105421 | 105429 | 105433 |
| 105395 | 105406 | 105414 | 105422 | 105430 | 105434 |
| 105396 | 105407 | 105415 | 105423 | 105431 | 105435 |
| 106812 | 106814 | x | x | x | x |

PRIMA PCc DALI

| Code | Type |
|--------|--------------------------------|
| 105444 | PRIMA 1.2ft PCc 1300/840 DALI |
| 105445 | PRIMA 1.2ft PCc 1600/840 DALI |
| 105446 | PRIMA 1.2ft PCc 2200/840 DALI |
| 105447 | PRIMA 1.4ft PCc 2600/840 DALI |
| 105448 | PRIMA 1.4ft PCc 3200/840 DALI |
| 105449 | PRIMA 1.4ft PCc 4400/840 DALI |
| 105450 | PRIMA 1.4ft PCc 6400/840 DALI |
| 106815 | PRIMA 1.4ft PCc 8000/840 DALI |
| 105451 | PRIMA 1.5ft PCc 3250/840 DALI |
| 105452 | PRIMA 1.5ft PCc 4000/840 DALI |
| 105453 | PRIMA 1.5ft PCc 5500/840 DALI |
| 105454 | PRIMA 1.5ft PCc 8000/840 DALI |
| 106816 | PRIMA 1.5ft PCc 10000/840 DALI |

Digital dimmable driver DALI - stainless clips [c]

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 105455 | x | x | x | x | x |
| 105456 | x | x | x | x | x |
| 105457 | x | x | x | x | x |
| 105458 | 105469 | 105477 | 105485 | 105493 | 106657 |
| 105459 | 105470 | 105478 | 105486 | 105494 | 106658 |
| 105460 | 105471 | 105479 | 105487 | 105495 | 106659 |
| 105461 | 105472 | 105480 | 105488 | 105496 | 106660 |
| 106817 | 106819 | x | x | x | x |
| 105451 | 105473 | 105481 | 105489 | 105497 | 105501 |
| 105452 | 105474 | 105482 | 105490 | 105498 | 105502 |
| 105453 | 105475 | 105483 | 105491 | 105499 | 105503 |
| 105465 | 105476 | 105484 | 105492 | 105500 | 105504 |
| 106818 | 106820 | x | x | x | x |

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
 b) Suspension with the use of stainless hooks
 c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA PC



PRIMA VP

NEW



... for outdoor sheltered spaces, impact resistant.

USE

It is intended to be installed **in sheltered outdoor spaces**. It features a ventilation membrane that equalizes pressures while blocking water and contaminants that build up inside of the fitting as a result of temperature fluctuations.

The fixture is highly recommended for **industrial premises, warehouses, agricultural buildings, sports facilities as well as transport hubs, car parks and garages, workshops and laboratories** with no explosion hazard.

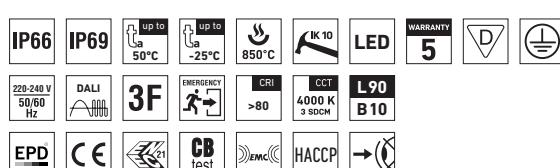
IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 50^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Certificates: **EPD, ENEC, CB, HACCP**



PRIMA VP PC, PCc



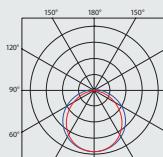
TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-25 °C** for version with emergency back-up M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **163 lm/W**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **translucent PC** (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)

- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|-------------------------|------------|
| | | | | | | | | variable mounting pitch | 98 |
| Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | |
| PRIMA 1.2ft VP PC 1300/840 | 50 | 1310 | 1220 | 8,2 | 149 | 22.2 / 21.4 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.2ft VP PC 1600/840 | 50 | 1560 | 1450 | 9,8 | 148 | 22.8 / 22.0 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.2ft VP PC 2200/840 | 45 | 2140 | 1990 | 13,2 | 151 | 23.9 / 23.1 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.4ft VP PC 2600/840 | 50 | 2600 | 2420 | 16,1 | 150 | 22.3 / 21.5 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft VP PC 3200/840 | 50 | 3100 | 2880 | 19,1 | 151 | 22.9 / 22.1 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft VP PC 4400/840 | 45 | 4300 | 4000 | 26,0 | 154 | 24.1 / 23.2 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft VP PC 6400/840 | 45 | 6120 | 5690 | 36,1 | 158 | 25.3 / 24.5 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft VP PC 8000/840 | 35 | 8050 | 7490 | 47,3 | 158 | 26.3 / 25.4 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.5ft VP PC 3250/840 | 50 | 3240 | 3010 | 19,5 | 154 | 22.4 / 21.5 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft VP PC 4000/840 | 50 | 3850 | 3580 | 23,3 | 154 | 23.0 / 22.1 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft VP PC 5500/840 | 45 | 5340 | 4970 | 31,9 | 156 | 24.1 / 23.3 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft VP PC 8000/840 | 45 | 7780 | 7240 | 44,3 | 163 | 25.4 / 24.6 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft VP PC 10000/840 | 35 | 9890 | 9200 | 58,6 | 157 | 26.2 / 25.4 | 2,0 | 1450 | 970 - 1230 |

PRIMA 1.5ft VP



PRIMA VP PC

Non-dimmable driver - plastic clips

| Code | Type |
|--------|-----------------------------|
| 105781 | PRIMA 1.2ft VP PC 1300/840 |
| 105782 | PRIMA 1.2ft VP PC 1600/840 |
| 105783 | PRIMA 1.2ft VP PC 2200/840 |
| 105784 | PRIMA 1.4ft VP PC 2600/840 |
| 105785 | PRIMA 1.4ft VP PC 3200/840 |
| 105786 | PRIMA 1.4ft VP PC 4400/840 |
| 105787 | PRIMA 1.4ft VP PC 6400/840 |
| 106845 | PRIMA 1.4ft VP PC 8000/840 |
| 105788 | PRIMA 1.5ft VP PC 3250/840 |
| 105789 | PRIMA 1.5ft VP PC 4000/840 |
| 105790 | PRIMA 1.5ft VP PC 5500/840 |
| 105791 | PRIMA 1.5ft VP PC 8000/840 |
| 106846 | PRIMA 1.5ft VP PC 10000/840 |

3F M3h 3F M3h

| | | |
|--------|--------|--------|
| 105792 | x | x |
| 105793 | x | x |
| 105794 | x | x |
| 105795 | 105803 | 106669 |
| 105796 | 105804 | 106670 |
| 105797 | 105805 | 106671 |
| 105798 | 105806 | 106672 |
| 106847 | x | x |
| 105799 | 105807 | 105811 |
| 105800 | 105808 | 105812 |
| 105801 | 105809 | 105813 |
| 105802 | 105810 | 105814 |
| 106848 | x | x |

PRIMA VP PCc

Non-dimmable driver - stainless clips (c)

| Code | Type |
|--------|------------------------------|
| 105823 | PRIMA 1.2ft VP PCc 1300/840 |
| 105824 | PRIMA 1.2ft VP PCc 1600/840 |
| 105825 | PRIMA 1.2ft VP PCc 2200/840 |
| 105826 | PRIMA 1.4ft VP PCc 2600/840 |
| 105827 | PRIMA 1.4ft VP PCc 3200/840 |
| 105828 | PRIMA 1.4ft VP PCc 4400/840 |
| 105829 | PRIMA 1.4ft VP PCc 6400/840 |
| 106849 | PRIMA 1.4ft VP PCc 8000/840 |
| 105830 | PRIMA 1.5ft VP PCc 3250/840 |
| 105831 | PRIMA 1.5ft VP PCc 4000/840 |
| 105832 | PRIMA 1.5ft VP PCc 5500/840 |
| 105833 | PRIMA 1.5ft VP PCc 8000/840 |
| 106850 | PRIMA 1.5ft VP PCc 10000/840 |

3F M3h 3F M3h

| | | |
|--------|--------|--------|
| 105834 | x | x |
| 105835 | x | x |
| 105836 | x | x |
| 105837 | 105845 | 106673 |
| 105838 | 105846 | 106674 |
| 105839 | 105847 | 106675 |
| 105840 | 105848 | 106676 |
| 106851 | x | x |
| 105841 | 105849 | 105853 |
| 105842 | 105850 | 105854 |
| 105843 | 105851 | 105855 |
| 105844 | 105852 | 105856 |
| 106852 | x | x |

PRIMA VP PC DALI

| Code | Type |
|--------|----------------------------------|
| 105865 | PRIMA 1.2ft VP PC 1300/840 DALI |
| 105866 | PRIMA 1.2ft VP PC 1600/840 DALI |
| 105867 | PRIMA 1.2ft VP PC 2200/840 DALI |
| 105868 | PRIMA 1.4ft VP PC 2600/840 DALI |
| 105869 | PRIMA 1.4ft VP PC 3200/840 DALI |
| 105870 | PRIMA 1.4ft VP PC 4400/840 DALI |
| 105871 | PRIMA 1.4ft VP PC 6400/840 DALI |
| 106853 | PRIMA 1.4ft VP PC 8000/840 DALI |
| 105872 | PRIMA 1.5ft VP PC 3250/840 DALI |
| 105873 | PRIMA 1.5ft VP PC 4000/840 DALI |
| 105874 | PRIMA 1.5ft VP PC 5500/840 DALI |
| 105875 | PRIMA 1.5ft VP PC 8000/840 DALI |
| 106854 | PRIMA 1.5ft VP PC 10000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| x | x | x |
| x | x | x |
| x | x | x |
| 105879 | 105887 | 106677 |
| 105880 | 105888 | 106678 |
| 105881 | 105889 | 106679 |
| 105882 | 105890 | 106680 |
| 106855 | x | x |
| 105883 | 105891 | 105895 |
| 105884 | 105892 | 105896 |
| 105885 | 105893 | 105897 |
| 105886 | 105894 | 105898 |
| 106856 | x | x |

PRIMA VP PCc DALI

| Code | Type |
|--------|-----------------------------------|
| 105907 | PRIMA 1.2ft VP PCc 1300/840 DALI |
| 105908 | PRIMA 1.2ft VP PCc 1600/840 DALI |
| 105909 | PRIMA 1.2ft VP PCc 2200/840 DALI |
| 105910 | PRIMA 1.4ft VP PCc 2600/840 DALI |
| 105911 | PRIMA 1.4ft VP PCc 3200/840 DALI |
| 105912 | PRIMA 1.4ft VP PCc 4400/840 DALI |
| 105913 | PRIMA 1.4ft VP PCc 6400/840 DALI |
| 106857 | PRIMA 1.4ft VP PCc 8000/840 DALI |
| 105914 | PRIMA 1.5ft VP PCc 3250/840 DALI |
| 105915 | PRIMA 1.5ft VP PCc 4000/840 DALI |
| 105916 | PRIMA 1.5ft VP PCc 5500/840 DALI |
| 105917 | PRIMA 1.5ft VP PCc 8000/840 DALI |
| 106858 | PRIMA 1.5ft VP PCc 10000/840 DALI |

Digital dimmable driver DALI - stainless clips [c]

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| x | x | x |
| x | x | x |
| x | x | x |
| 105921 | 105929 | 106681 |
| 105922 | 105930 | 106682 |
| 105923 | 105931 | 106683 |
| 105924 | 105932 | 106684 |
| 106859 | x | x |
| 105925 | 105933 | 105937 |
| 105926 | 105934 | 105938 |
| 105927 | 105935 | 105939 |
| 105928 | 105936 | 105940 |
| 106860 | x | x |

LEGEND

3F 3-phase 5 core through-wiring in the luminaire**M3h** emergency back-up source with 3 hour operating time for maintained emergency illumination**3F Mxh** 3-phase 5 core through-wiring in the luminaire

(L3 used for emergency unit unswitched power supply)

DALI version with digital dimmable driver DALI**DALI 3F** 3-phase 7 core through-wiring in the luminaire**DALI 3F Mxh** 3-phase 7 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA VP PC



PRIMA ABS

NEW



... dustproof, waterproof and chemically resistant.

USE

In addition to indoor spaces, it is designed for agricultural buildings and other spaces with chemically aggressive environments due to ammonia fumes, lye fumes, alkali and hot water (hydrolysis).

The fitting is primarily intended for large **agricultural premises and industrial halls such as farms, stables, production plants and warehouses, car washes and laboratories** with no explosion hazard.

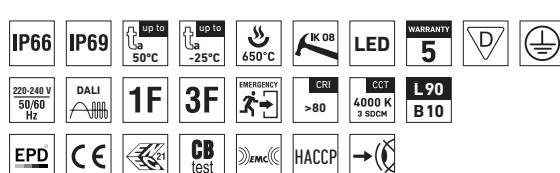
IP69-rated and HACCP-compliant, the fitting's design also makes it suitable for the food industry.

The fitting's base is made of ABS and diffuser of AC, resulting in their **exceptional chemical resistance**. Emissions in the environment of use may reduce the usability of the plastics.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 50^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Certificates: **EPD, ENEC, CB, HACCP**



PRIMA ABS, ABS*c*

TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-25 °C** for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **163 lm/W**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **translucent PC** (high mechanical resistance, UV stability)
- Body: dark grey ABS (high chemical resistance, UV stability)

- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 50 °C - body: dark grey ABS - diffuser: translucent polycarbonate | | | | | | | | | |
| PRIMA 1.2ft ABS 1300/840 | 50 | 1310 | 1220 | 8,2 | 149 | 22.0 / 21.6 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.2ft ABS 1600/840 | 50 | 1560 | 1450 | 9,8 | 148 | 22.6 / 22.2 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.2ft ABS 2200/840 | 45 | 2140 | 1990 | 13,2 | 151 | 23.7 / 23.3 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.4ft ABS 2600/840 | 50 | 2600 | 2420 | 16,1 | 150 | 22.2 / 21.7 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft ABS 3200/840 | 50 | 3100 | 2880 | 19,1 | 151 | 22.8 / 22.3 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft ABS 4400/840 | 45 | 4300 | 4000 | 26,0 | 154 | 23.9 / 23.4 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft ABS 6400/840 | 45 | 6120 | 5690 | 36,1 | 158 | 25.1 / 24.7 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft ABS 8000/840 | 35 | 8050 | 7490 | 47,3 | 158 | 26.1 / 25.6 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.5ft ABS 3250/840 | 50 | 3240 | 3010 | 19,5 | 154 | 22.2 / 21.7 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft ABS 4000/840 | 50 | 3850 | 3580 | 23,3 | 154 | 22.8 / 22.3 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft ABS 5500/840 | 45 | 5340 | 4970 | 31,9 | 156 | 23.9 / 23.4 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft ABS 8000/840 | 45 | 7780 | 7240 | 44,3 | 163 | 25.2 / 24.7 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft ABS 10000/840 | 35 | 9890 | 9200 | 58,6 | 157 | 26.1 / 25.6 | 2,0 | 1450 | 970 - 1230 |

PRIMA ABS

| Code | Type |
|--------|---------------------------|
| 105513 | PRIMA 1.2ft ABS 1300/840 |
| 105514 | PRIMA 1.2ft ABS 1600/840 |
| 105515 | PRIMA 1.2ft ABS 2200/840 |
| 105516 | PRIMA 1.4ft ABS 2600/840 |
| 105517 | PRIMA 1.4ft ABS 3200/840 |
| 105518 | PRIMA 1.4ft ABS 4400/840 |
| 105519 | PRIMA 1.4ft ABS 6400/840 |
| 106821 | PRIMA 1.4ft ABS 8000/840 |
| 105520 | PRIMA 1.5ft ABS 3250/840 |
| 105521 | PRIMA 1.5ft ABS 4000/840 |
| 105522 | PRIMA 1.5ft ABS 5500/840 |
| 105523 | PRIMA 1.5ft ABS 8000/840 |
| 106822 | PRIMA 1.5ft ABS 10000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 105524 | 105535 | x | x | x | x |
| 105525 | 105536 | x | x | x | x |
| 105526 | 105537 | x | x | x | x |
| 105527 | 105538 | 105546 | 105554 | 105562 | 105570 |
| 105528 | 105539 | 105547 | 105555 | 105563 | 105571 |
| 105529 | 105540 | 105548 | 105556 | 105564 | 105572 |
| 105530 | 105541 | 105549 | 105557 | 105565 | 105573 |
| 106823 | 106825 | x | x | x | x |
| 105531 | 105542 | 105550 | 105558 | 105566 | 105574 |
| 105532 | 105543 | 105551 | 105559 | 105567 | 105575 |
| 105533 | 105544 | 105552 | 105560 | 105568 | 105576 |
| 105534 | 105545 | 105553 | 105561 | 105569 | 105577 |
| 106824 | 106826 | x | x | x | x |

PRIMA ABS*c*

| Code | Type |
|--------|------------------------------------|
| 105578 | PRIMA 1.2ft ABS <i>c</i> 1300/840 |
| 105579 | PRIMA 1.2ft ABS <i>c</i> 1600/840 |
| 105580 | PRIMA 1.2ft ABS <i>c</i> 2200/840 |
| 105581 | PRIMA 1.4ft ABS <i>c</i> 2600/840 |
| 105582 | PRIMA 1.4ft ABS <i>c</i> 3200/840 |
| 105583 | PRIMA 1.4ft ABS <i>c</i> 4400/840 |
| 105584 | PRIMA 1.4ft ABS <i>c</i> 6400/840 |
| 106827 | PRIMA 1.4ft ABS <i>c</i> 8000/840 |
| 105585 | PRIMA 1.5ft ABS <i>c</i> 3250/840 |
| 105586 | PRIMA 1.5ft ABS <i>c</i> 4000/840 |
| 105587 | PRIMA 1.5ft ABS <i>c</i> 5500/840 |
| 105588 | PRIMA 1.5ft ABS <i>c</i> 8000/840 |
| 106828 | PRIMA 1.5ft ABS <i>c</i> 10000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 105589 | 105600 | x | x | x | x |
| 105590 | 105601 | x | x | x | x |
| 105591 | 105602 | x | x | x | x |
| 105592 | 105603 | 105611 | 105619 | 105627 | 105635 |
| 105593 | 105604 | 105612 | 105620 | 105628 | 105636 |
| 105594 | 105605 | 105613 | 105621 | 105629 | 105637 |
| 105595 | 105606 | 105614 | 105622 | 105630 | 105638 |
| 106829 | 106831 | x | x | x | x |
| 105596 | 105607 | 105615 | 105623 | 105631 | 105639 |
| 105597 | 105608 | 105616 | 105624 | 105632 | 105640 |
| 105598 | 105609 | 105617 | 105625 | 105633 | 105641 |
| 105599 | 105610 | 105618 | 105626 | 105634 | 105642 |
| 106830 | 106832 | x | x | x | x |

PRIMA ABS DALI

| Code | Type |
|--------|--------------------------------|
| 105643 | PRIMA 1.2ft ABS 1300/840 DALI |
| 105644 | PRIMA 1.2ft ABS 1600/840 DALI |
| 105645 | PRIMA 1.2ft ABS 2200/840 DALI |
| 105646 | PRIMA 1.4ft ABS 2600/840 DALI |
| 105647 | PRIMA 1.4ft ABS 3200/840 DALI |
| 105648 | PRIMA 1.4ft ABS 4400/840 DALI |
| 105649 | PRIMA 1.4ft ABS 6400/840 DALI |
| 106833 | PRIMA 1.4ft ABS 8000/840 DALI |
| 105650 | PRIMA 1.5ft ABS 3250/840 DALI |
| 105651 | PRIMA 1.5ft ABS 4000/840 DALI |
| 105652 | PRIMA 1.5ft ABS 5500/840 DALI |
| 105653 | PRIMA 1.5ft ABS 8000/840 DALI |
| 106834 | PRIMA 1.5ft ABS 10000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 105654 | x | x | x | x | x |
| 105655 | x | x | x | x | x |
| 105656 | x | x | x | x | x |
| 105657 | 105668 | 105676 | 105684 | 105692 | 106661 |
| 105658 | 105669 | 105677 | 105685 | 105693 | 106662 |
| 105659 | 105670 | 105678 | 105686 | 105694 | 106663 |
| 105660 | 105671 | 105679 | 105687 | 105695 | 106664 |
| 106835 | 106837 | x | x | x | x |
| 105661 | 105672 | 105680 | 105688 | 105696 | 105700 |
| 105662 | 105673 | 105681 | 105689 | 105697 | 105701 |
| 105663 | 105674 | 105682 | 105690 | 105698 | 105702 |
| 105664 | 105675 | 105683 | 105691 | 105699 | 105703 |
| 106836 | 106838 | x | x | x | x |

PRIMA ABS*c* DALI

| Code | Type |
|--------|---------------------------------|
| 105712 | PRIMA 1.2ft ABSc 1300/840 DALI |
| 105713 | PRIMA 1.2ft ABSc 1600/840 DALI |
| 105714 | PRIMA 1.2ft ABSc 2200/840 DALI |
| 105715 | PRIMA 1.4ft ABSc 2600/840 DALI |
| 105716 | PRIMA 1.4ft ABSc 3200/840 DALI |
| 105717 | PRIMA 1.4ft ABSc 4400/840 DALI |
| 105718 | PRIMA 1.4ft ABSc 6400/840 DALI |
| 106839 | PRIMA 1.4ft ABSc 8000/840 DALI |
| 105719 | PRIMA 1.5ft ABSc 3250/840 DALI |
| 105720 | PRIMA 1.5ft ABSc 4000/840 DALI |
| 105721 | PRIMA 1.5ft ABSc 5500/840 DALI |
| 105722 | PRIMA 1.5ft ABSc 8000/840 DALI |
| 106840 | PRIMA 1.5ft ABSc 10000/840 DALI |

Digital dimmable driver DALI - stainless clips [c]

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 105723 | x | x | x | x | x |
| 105724 | x | x | x | x | x |
| 105725 | x | x | x | x | x |
| 105726 | 105737 | 105745 | 105753 | 105761 | 106665 |
| 105727 | 105738 | 105746 | 105754 | 105762 | 106666 |
| 105728 | 105739 | 105747 | 105755 | 105763 | 106667 |
| 105729 | 105740 | 105748 | 105756 | 105764 | 106668 |
| 106841 | 106843 | x | x | x | x |
| 105730 | 105741 | 105749 | 105757 | 105765 | 105769 |
| 105731 | 105742 | 105750 | 105758 | 105766 | 105770 |
| 105732 | 105743 | 105751 | 105759 | 105767 | 105771 |
| 105733 | 105744 | 105752 | 105760 | 105768 | 105772 |
| 106842 | 106844 | x | x | x | x |

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
 b) Suspension with the use of stainless hooks
 c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA ABS



PRIMA VP ABS

NEW



... for outdoor sheltered spaces, chemically resistant.

USE

It is intended to be installed in **sheltered outdoor spaces**. It features a ventilation membrane that equalizes pressures while blocking water and contaminants that build up inside of the fitting as a result of temperature fluctuations.

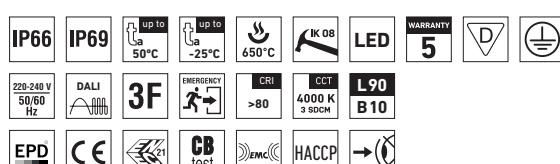
The fitting is highly recommended for agricultural buildings and other spaces with chemically aggressive environments due to ammonia fumes, lye fumes, alkali, hot water (hydrolysis) and oils. The product is primarily intended for **agricultural buildings and industrial halls such as farms, stables, production plants and warehouses, and spaces with permanently high humidity (such as car washes and tunnels)**. Additionally, it is a perfect choice for the tropical zone and coastal areas. IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

The fitting's base is made of ABS and diffuser of AC, resulting in their **exceptional chemical resistance**. Emissions in the environment of use may reduce the usability of the plastics.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 50^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Certificates: **EPD, ENEC, CB, HACCP**



PRIMA VP ABS, ABSc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-25 °C** for version with emergency back-up M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **163 lm/W**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **translucent PC** (high mechanical resistance, UV stability)
- Body: dark grey ABS (high chemical resistance, UV stability)

- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | |
| PRIMA 1.2ft VP ABS 1300/840 | 50 | 1310 | 1220 | 8,2 | 149 | 22.0 / 21.6 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.2ft VP ABS 1600/840 | 50 | 1560 | 1450 | 9,8 | 148 | 22.6 / 22.2 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.2ft VP ABS 2200/840 | 45 | 2140 | 1990 | 13,2 | 151 | 23.7 / 23.3 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.4ft VP ABS 2600/840 | 50 | 2600 | 2420 | 16,1 | 150 | 22.2 / 21.7 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft VP ABS 3200/840 | 50 | 3100 | 2880 | 19,1 | 151 | 22.8 / 22.3 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft VP ABS 4400/840 | 45 | 4300 | 4000 | 26,0 | 154 | 23.9 / 23.4 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft VP ABS 6400/840 | 45 | 6120 | 5690 | 36,1 | 158 | 25.1 / 24.7 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft VP ABS 8000/840 | 35 | 8050 | 7490 | 47,3 | 158 | 26.1 / 25.6 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.5ft VP ABS 3250/840 | 50 | 3240 | 3010 | 19,5 | 154 | 22.2 / 21.7 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft VP ABS 4000/840 | 50 | 3850 | 3580 | 23,3 | 154 | 22.8 / 22.3 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft VP ABS 5500/840 | 45 | 5340 | 4970 | 31,9 | 156 | 23.9 / 23.4 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft VP ABS 8000/840 | 45 | 7780 | 7240 | 44,3 | 163 | 25.2 / 24.7 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft VP ABS 10000/840 | 35 | 9890 | 9200 | 58,6 | 157 | 26.1 / 25.6 | 2,0 | 1450 | 970 - 1230 |

PRIMA VP ABS

Non-dimmable driver - plastic clips

| Code | Type |
|--------|------------------------------|
| 105949 | PRIMA 1.2ft VP ABS 1300/840 |
| 105950 | PRIMA 1.2ft VP ABS 1600/840 |
| 105951 | PRIMA 1.2ft VP ABS 2200/840 |
| 105952 | PRIMA 1.4ft VP ABS 2600/840 |
| 105953 | PRIMA 1.4ft VP ABS 3200/840 |
| 105954 | PRIMA 1.4ft VP ABS 4400/840 |
| 105955 | PRIMA 1.4ft VP ABS 6400/840 |
| 106861 | PRIMA 1.4ft VP ABS 8000/840 |
| 105956 | PRIMA 1.5ft VP ABS 3250/840 |
| 105957 | PRIMA 1.5ft VP ABS 4000/840 |
| 105958 | PRIMA 1.5ft VP ABS 5500/840 |
| 105959 | PRIMA 1.5ft VP ABS 8000/840 |
| 106862 | PRIMA 1.5ft VP ABS 10000/840 |

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| 105960 | x | x |
| 105961 | x | x |
| 105962 | x | x |
| 105963 | 105971 | 106685 |
| 105964 | 105972 | 106686 |
| 105965 | 105973 | 106687 |
| 105966 | 105974 | 106688 |
| 106863 | x | x |
| 105967 | 105975 | 105979 |
| 105968 | 105976 | 105980 |
| 105969 | 105977 | 105981 |
| 105970 | 105978 | 105982 |
| 106864 | x | x |

PRIMA VP ABSc

Non-dimmable driver - stainless clips (c)

| Code | Type |
|--------|-------------------------------|
| 105991 | PRIMA 1.2ft VP ABSc 1300/840 |
| 105992 | PRIMA 1.2ft VP ABSc 1600/840 |
| 105993 | PRIMA 1.2ft VP ABSc 2200/840 |
| 105994 | PRIMA 1.4ft VP ABSc 2600/840 |
| 105995 | PRIMA 1.4ft VP ABSc 3200/840 |
| 105996 | PRIMA 1.4ft VP ABSc 4400/840 |
| 105997 | PRIMA 1.4ft VP ABSc 6400/840 |
| 106865 | PRIMA 1.4ft VP ABSc 8000/840 |
| 105998 | PRIMA 1.5ft VP ABSc 3250/840 |
| 105999 | PRIMA 1.5ft VP ABSc 4000/840 |
| 106000 | PRIMA 1.5ft VP ABSc 5500/840 |
| 106001 | PRIMA 1.5ft VP ABSc 8000/840 |
| 106866 | PRIMA 1.5ft VP ABSc 10000/840 |

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| 106002 | x | x |
| 106003 | x | x |
| 106004 | x | x |
| 106005 | 106013 | 106689 |
| 106006 | 106014 | 106690 |
| 106007 | 106015 | 106691 |
| 106008 | 106016 | 106692 |
| 106867 | x | x |
| 106009 | 106017 | 106021 |
| 106010 | 106018 | 106022 |
| 106011 | 106019 | 106023 |
| 106012 | 106020 | 106024 |
| 106868 | x | x |

PRIMA VP ABS DALI

| Code | Type |
|--------|-----------------------------------|
| 106033 | PRIMA 1.2ft VP ABS 1300/840 DALI |
| 106034 | PRIMA 1.2ft VP ABS 1600/840 DALI |
| 106035 | PRIMA 1.2ft VP ABS 2200/840 DALI |
| 106036 | PRIMA 1.4ft VP ABS 2600/840 DALI |
| 106037 | PRIMA 1.4ft VP ABS 3200/840 DALI |
| 106038 | PRIMA 1.4ft VP ABS 4400/840 DALI |
| 106039 | PRIMA 1.4ft VP ABS 6400/840 DALI |
| 106869 | PRIMA 1.4ft VP ABS 8000/840 DALI |
| 106040 | PRIMA 1.5ft VP ABS 3250/840 DALI |
| 106041 | PRIMA 1.5ft VP ABS 4000/840 DALI |
| 106042 | PRIMA 1.5ft VP ABS 5500/840 DALI |
| 106043 | PRIMA 1.5ft VP ABS 8000/840 DALI |
| 106870 | PRIMA 1.5ft VP ABS 10000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| x | x | x |
| x | x | x |
| x | x | x |
| 106047 | 106055 | 106693 |
| 106048 | 106056 | 106694 |
| 106049 | 106057 | 106695 |
| 106050 | 106058 | 106696 |
| 106871 | x | x |
| 106051 | 106059 | 106063 |
| 106052 | 106060 | 106064 |
| 106053 | 106061 | 106065 |
| 106054 | 106062 | 106066 |
| 106872 | x | x |

PRIMA VP ABS*c* DALI

| Code | Type |
|--------|--|
| 106075 | PRIMA 1.2ft VP ABS <i>c</i> 1300/840 DALI |
| 106076 | PRIMA 1.2ft VP ABS <i>c</i> 1600/840 DALI |
| 106077 | PRIMA 1.2ft VP ABS <i>c</i> 2200/840 DALI |
| 106078 | PRIMA 1.4ft VP ABS <i>c</i> 2600/840 DALI |
| 106079 | PRIMA 1.4ft VP ABS <i>c</i> 3200/840 DALI |
| 106080 | PRIMA 1.4ft VP ABS <i>c</i> 4400/840 DALI |
| 106081 | PRIMA 1.4ft VP ABS <i>c</i> 6400/840 DALI |
| 106873 | PRIMA 1.4ft VP ABS <i>c</i> 8000/840 DALI |
| 106082 | PRIMA 1.5ft VP ABS <i>c</i> 3250/840 DALI |
| 106083 | PRIMA 1.5ft VP ABS <i>c</i> 4000/840 DALI |
| 106084 | PRIMA 1.5ft VP ABS <i>c</i> 5500/840 DALI |
| 106085 | PRIMA 1.5ft VP ABS <i>c</i> 8000/840 DALI |
| 106874 | PRIMA 1.5ft VP ABS <i>c</i> 10000/840 DALI |

Digital dimmable driver DALI - stainless clips [c]

| 3F | M3h | 3F M3h |
|--------|--------|--------|
| x | x | x |
| x | x | x |
| x | x | x |
| 106089 | 106097 | 106697 |
| 106090 | 106098 | 106698 |
| 106091 | 106099 | 106699 |
| 106092 | 106100 | 106700 |
| 106875 | x | x |
| 106093 | 106101 | 106105 |
| 106094 | 106102 | 106106 |
| 106095 | 106103 | 106107 |
| 106096 | 106104 | 106108 |
| 106876 | x | x |

LEGEND

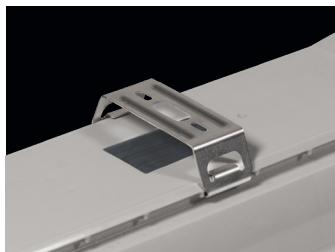
3F 3-phase 5 core through-wiring in the luminaire**M3h** emergency back-up source with 3 hour operating time for maintained emergency illumination**3F Mxh** 3-phase 5 core through-wiring in the luminaire

(L3 used for emergency unit unswitched power supply)

DALI version with digital dimmable driver DALI**DALI 3F** 3-phase 7 core through-wiring in the luminaire**DALI 3F Mxh** 3-phase 7 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA VP ABS



PRIMA VALUE

NEW



... dustproof, waterproof and impact resistant.

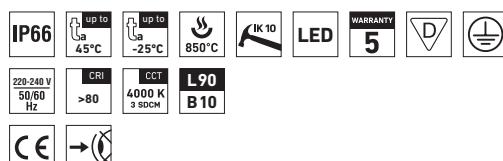
USE

It is designed for indoor spaces, **industrial premises, agricultural buildings, warehouses as well as sports facilities, transport hubs, car parks and garages, workshops and laboratories** with no explosion hazard.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics.

ADVANTAGES

- Light fitting protection **IP66**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 45^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- Standard model CRI > 80: 4000 K
- Certificates: CE (only)



PRIMA VALUE PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: **ta = 45 °C**
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **140 lm/W**
- **CRI > 80: 4000 K** – standard
- MacAdam = 3 SDCM
- Diffuser: **translucent PC** (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included

- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

PRIMA 1.5ft VALUE

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 45 °C - body: grey polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | |
| PRIMA VALUE 1.2ft PC 1300/840 | 45 | 1440 | 1340 | 9,8 | 137 | 22,5 / 21,7 | 0,9 | 610 | 110 - 370 |
| PRIMA VALUE 1.2ft PC 1600/840 | 45 | 1690 | 1570 | 11,5 | 137 | 23,1 / 22,2 | 0,9 | 610 | 110 - 370 |
| PRIMA VALUE 1.2ft PC 2200/840 | 40 | 2360 | 2190 | 15,7 | 139 | 24,2 / 23,4 | 0,9 | 610 | 110 - 370 |
| PRIMA VALUE 1.4ft PC 2600/840 | 45 | 2910 | 2710 | 19,7 | 138 | 22,7 / 21,9 | 1,7 | 1170 | 700 - 960 |
| PRIMA VALUE 1.4ft PC 3200/840 | 45 | 3350 | 3120 | 22,8 | 137 | 23,2 / 22,4 | 1,7 | 1170 | 700 - 960 |
| PRIMA VALUE 1.4ft PC 4400/840 | 40 | 4720 | 4390 | 31,4 | 140 | 24,4 / 23,6 | 1,7 | 1170 | 700 - 960 |
| PRIMA VALUE 1.4ft PC 6400/840 | 40 | 6580 | 6120 | 43,8 | 140 | 25,6 / 24,7 | 1,7 | 1170 | 700 - 960 |
| PRIMA VALUE 1.5ft PC 3250/840 | 45 | 3620 | 3370 | 24,0 | 140 | 22,7 / 21,9 | 2,0 | 1450 | 970 - 1230 |
| PRIMA VALUE 1.5ft PC 4000/840 | 45 | 4140 | 3850 | 28,0 | 138 | 23,2 / 22,4 | 2,0 | 1450 | 970 - 1230 |
| PRIMA VALUE 1.5ft PC 5500/840 | 40 | 5740 | 5340 | 38,3 | 139 | 24,3 / 23,5 | 2,0 | 1450 | 970 - 1230 |
| PRIMA VALUE 1.5ft PC 8000/840 | 40 | 8030 | 7470 | 54,3 | 138 | 25,5 / 24,7 | 2,0 | 1450 | 970 - 1230 |

PRIMA VALUE PC

| Code | Type |
|--------|-------------------------------|
| 106729 | PRIMA VALUE 1.2ft PC 1300/840 |
| 106730 | PRIMA VALUE 1.2ft PC 1600/840 |
| 106731 | PRIMA VALUE 1.2ft PC 2200/840 |
| 106732 | PRIMA VALUE 1.4ft PC 2600/840 |
| 106733 | PRIMA VALUE 1.4ft PC 3200/840 |
| 106734 | PRIMA VALUE 1.4ft PC 4400/840 |
| 106735 | PRIMA VALUE 1.4ft PC 6400/840 |
| 106736 | PRIMA VALUE 1.5ft PC 3250/840 |
| 106737 | PRIMA VALUE 1.5ft PC 4000/840 |
| 106738 | PRIMA VALUE 1.5ft PC 5500/840 |
| 106739 | PRIMA VALUE 1.5ft PC 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|----|----|-----|-----|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |

PRIMA VALUE PCc

| Code | Type |
|--------|--------------------------------|
| 106740 | PRIMA VALUE 1.2ft PCc 1300/840 |
| 106741 | PRIMA VALUE 1.2ft PCc 1600/840 |
| 106742 | PRIMA VALUE 1.2ft PCc 2200/840 |
| 106743 | PRIMA VALUE 1.4ft PCc 2600/840 |
| 106744 | PRIMA VALUE 1.4ft PCc 3200/840 |
| 106745 | PRIMA VALUE 1.4ft PCc 4400/840 |
| 106746 | PRIMA VALUE 1.4ft PCc 6400/840 |
| 106747 | PRIMA VALUE 1.5ft PCc 3250/840 |
| 106748 | PRIMA VALUE 1.5ft PCc 4000/840 |
| 106749 | PRIMA VALUE 1.5ft PCc 5500/840 |
| 106750 | PRIMA VALUE 1.5ft PCc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|----|----|-----|-----|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |

LEGEND

1F 1-phase 3 core through-wiring in the luminaire**3F** 3-phase 5 core through-wiring in the luminaire**M1h** emergency back-up source with 1 hour operating time for maintained emergency illumination**M3h** emergency back-up source with 3 hour operating time for maintained emergency illumination**3F Mxh** 3-phase 5 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

a) Directly to a ceiling or a wall with the use of screws and stainless brackets

b) Suspension with the use of stainless hooks

c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA VALUE PC



PRIMA VALUE ABS

NEW



... dustproof, waterproof and chemically resistant.

USE

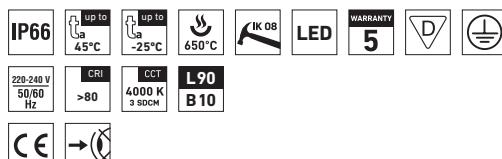
In addition to indoor spaces, it is designed for agricultural buildings and other spaces with chemically aggressive environments due to ammonia fumes, lye fumes, alkali and hot water (hydrolysis).

The fitting is primarily intended for large **agricultural premises and industrial halls such as farms, stables, production plants and warehouses, car washes and laboratories** with no explosion hazard.

The fitting's base is made of ABS and diffuser of AC, resulting in their **exceptional chemical resistance**. Emissions in the environment of use may reduce the usability of the plastics.

ADVANTAGES

- Light fitting protection **IP66**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 45^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- Standard model CRI > 80: 4000 K
- Certificates: CE (only)



PRIMA VALUE ABS, ABSc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: **ta = 45 °C**
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **140 lm/W**
- **CRI > 80: 4000 K** – standard
- MacAdam = 3 SDCM
- Diffuser: **translucent PC** (high mechanical resistance, UV stability)
- Body: dark grey ABS (high chemical resistance, UV stability)
- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included

- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

PRIMA 1.5ft VALUE ABS

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 45 °C - body: dark grey ABS - diffuser: translucent polycarbonate | | | | | | | | | |
| PRIMA VALUE 1.2ft ABS 1300/840 | 45 | 1440 | 1340 | 9,8 | 137 | 22,4 / 21,9 | 0,9 | 610 | 110 - 370 |
| PRIMA VALUE 1.2ft ABS 1600/840 | 45 | 1690 | 1570 | 11,5 | 137 | 22,9 / 22,4 | 0,9 | 610 | 110 - 370 |
| PRIMA VALUE 1.2ft ABS 2200/840 | 40 | 2360 | 2190 | 15,7 | 139 | 24,1 / 23,6 | 0,9 | 610 | 110 - 370 |
| PRIMA VALUE 1.4ft ABS 2600/840 | 45 | 2910 | 2710 | 19,7 | 138 | 22,6 / 22,1 | 1,7 | 1170 | 700 - 960 |
| PRIMA VALUE 1.4ft ABS 3200/840 | 45 | 3350 | 3120 | 22,8 | 137 | 23,0 / 22,6 | 1,7 | 1170 | 700 - 960 |
| PRIMA VALUE 1.4ft ABS 4400/840 | 40 | 4720 | 4390 | 31,4 | 140 | 24,2 / 23,8 | 1,7 | 1170 | 700 - 960 |
| PRIMA VALUE 1.4ft ABS 6400/840 | 40 | 6580 | 6120 | 43,8 | 140 | 25,4 / 24,9 | 1,7 | 1170 | 700 - 960 |
| PRIMA VALUE 1.5ft ABS 3250/840 | 45 | 3620 | 3370 | 24,0 | 140 | 22,6 / 22,1 | 2,0 | 1450 | 970 - 1230 |
| PRIMA VALUE 1.5ft ABS 4000/840 | 45 | 4140 | 3850 | 28,0 | 138 | 23,0 / 22,6 | 2,0 | 1450 | 970 - 1230 |
| PRIMA VALUE 1.5ft ABS 5500/840 | 40 | 5740 | 5340 | 38,3 | 139 | 24,2 / 23,7 | 2,0 | 1450 | 970 - 1230 |
| PRIMA VALUE 1.5ft ABS 8000/840 | 40 | 8030 | 7470 | 54,3 | 138 | 25,3 / 24,9 | 2,0 | 1450 | 970 - 1230 |

PRIMA VALUE ABS

| Code | Type |
|--------|--------------------------------|
| 106751 | PRIMA VALUE 1.2ft ABS 1300/840 |
| 106752 | PRIMA VALUE 1.2ft ABS 1600/840 |
| 106753 | PRIMA VALUE 1.2ft ABS 2200/840 |
| 106754 | PRIMA VALUE 1.4ft ABS 2600/840 |
| 106755 | PRIMA VALUE 1.4ft ABS 3200/840 |
| 106756 | PRIMA VALUE 1.4ft ABS 4400/840 |
| 106757 | PRIMA VALUE 1.4ft ABS 6400/840 |
| 106758 | PRIMA VALUE 1.5ft ABS 3250/840 |
| 106759 | PRIMA VALUE 1.5ft ABS 4000/840 |
| 106760 | PRIMA VALUE 1.5ft ABS 5500/840 |
| 106761 | PRIMA VALUE 1.5ft ABS 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|----|----|-----|-----|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |

PRIMA VALUE ABSc

| Code | Type |
|--------|---------------------------------|
| 106762 | PRIMA VALUE 1.2ft ABSc 1300/840 |
| 106763 | PRIMA VALUE 1.2ft ABSc 1600/840 |
| 106764 | PRIMA VALUE 1.2ft ABSc 2200/840 |
| 106765 | PRIMA VALUE 1.4ft ABSc 2600/840 |
| 106766 | PRIMA VALUE 1.4ft ABSc 3200/840 |
| 106767 | PRIMA VALUE 1.4ft ABSc 4400/840 |
| 106768 | PRIMA VALUE 1.4ft ABSc 6400/840 |
| 106769 | PRIMA VALUE 1.5ft ABSc 3250/840 |
| 106770 | PRIMA VALUE 1.5ft ABSc 4000/840 |
| 106771 | PRIMA VALUE 1.5ft ABSc 5500/840 |
| 106772 | PRIMA VALUE 1.5ft ABSc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|----|----|-----|-----|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |

LEGEND

1F 1-phase 3 core through-wiring in the luminaire**3F** 3-phase 5 core through-wiring in the luminaire**M1h** emergency back-up source with 1 hour operating time for maintained emergency illumination**M3h** emergency back-up source with 3 hour operating time for maintained emergency illumination**3F Mxh** 3-phase 5 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA VALUE ABS



PRIMA CLASS II

NEW



... class II insulation, impact resistant.

USE

The fixture is intended for indoor spaces, **industrial and agricultural buildings, warehouses, rail vehicle maintenance facilities, platforms, substations, depots, car parks, garages, workshops and laboratories** with no explosion hazard.

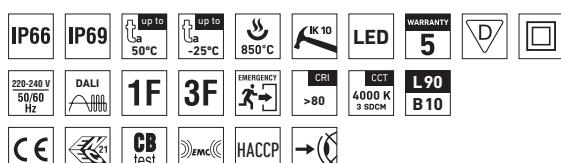
IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 50^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 6 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Certificates: **ENEC, CB, HACCP**



PRIMA CLASS II PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **163 lm/W**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **translucent PC** (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)

- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | |
| PRIMA 1.2ft CLASS II PC 1300/840 | 50 | 1310 | 1220 | 8,2 | 149 | 22.2 / 21.4 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.2ft CLASS II PC 1600/840 | 50 | 1560 | 1450 | 9,8 | 148 | 22.8 / 22.0 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.2ft CLASS II PC 2200/840 | 45 | 2140 | 1990 | 13,2 | 151 | 23.9 / 23.1 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.4ft CLASS II PC 2600/840 | 50 | 2600 | 2420 | 16,1 | 150 | 22.3 / 21.5 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft CLASS II PC 3200/840 | 50 | 3100 | 2880 | 19,1 | 151 | 22.9 / 22.1 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft CLASS II PC 4400/840 | 45 | 4300 | 4000 | 26,0 | 154 | 24.1 / 23.2 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft CLASS II PC 6400/840 | 45 | 6120 | 5690 | 36,1 | 158 | 25.3 / 24.5 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.5ft CLASS II PC 3250/840 | 50 | 3240 | 3010 | 19,5 | 154 | 22.4 / 21.5 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft CLASS II PC 4000/840 | 50 | 3850 | 3580 | 23,3 | 154 | 23.0 / 22.1 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft CLASS II PC 5500/840 | 45 | 5340 | 4970 | 31,9 | 156 | 24.1 / 23.3 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft CLASS II PC 8000/840 | 45 | 7780 | 7240 | 44,3 | 163 | 25.4 / 24.6 | 2,0 | 1450 | 970 - 1230 |

PRIMA CLASS II PC

| Code | Type |
|--------|----------------------------------|
| 106117 | PRIMA 1.2ft CLASS II PC 1300/840 |
| 106118 | PRIMA 1.2ft CLASS II PC 1600/840 |
| 106119 | PRIMA 1.2ft CLASS II PC 2200/840 |
| 106120 | PRIMA 1.4ft CLASS II PC 2600/840 |
| 106121 | PRIMA 1.4ft CLASS II PC 3200/840 |
| 106122 | PRIMA 1.4ft CLASS II PC 4400/840 |
| 106123 | PRIMA 1.4ft CLASS II PC 6400/840 |
| 106124 | PRIMA 1.5ft CLASS II PC 3250/840 |
| 106125 | PRIMA 1.5ft CLASS II PC 4000/840 |
| 106126 | PRIMA 1.5ft CLASS II PC 5500/840 |
| 106127 | PRIMA 1.5ft CLASS II PC 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 106128 | 106139 | x | x | x | x |
| 106129 | 106140 | x | x | x | x |
| 106130 | 106141 | x | x | x | x |
| 106131 | 106142 | 106150 | 106158 | 106166 | 106174 |
| 106132 | 106143 | 106151 | 106159 | 106167 | 106175 |
| 106133 | 106144 | 106152 | 106160 | 106168 | 106176 |
| 106134 | 106145 | 106153 | 106161 | 106169 | 106177 |
| 106135 | 106146 | 106154 | 106162 | 106170 | 106178 |
| 106136 | 106147 | 106155 | 106163 | 106171 | 106179 |
| 106137 | 106148 | 106156 | 106164 | 106172 | 106180 |
| 106138 | 106149 | 106157 | 106165 | 106173 | 106181 |

PRIMA CLASS II PCc

| Code | Type |
|--------|-----------------------------------|
| 106182 | PRIMA 1.2ft CLASS II PCc 1300/840 |
| 106183 | PRIMA 1.2ft CLASS II PCc 1600/840 |
| 106184 | PRIMA 1.2ft CLASS II PCc 2200/840 |
| 106185 | PRIMA 1.4ft CLASS II PCc 2600/840 |
| 106186 | PRIMA 1.4ft CLASS II PCc 3200/840 |
| 106187 | PRIMA 1.4ft CLASS II PCc 4400/840 |
| 106188 | PRIMA 1.4ft CLASS II PCc 6400/840 |
| 106189 | PRIMA 1.5ft CLASS II PCc 3250/840 |
| 106190 | PRIMA 1.5ft CLASS II PCc 4000/840 |
| 106191 | PRIMA 1.5ft CLASS II PCc 5500/840 |
| 106192 | PRIMA 1.5ft CLASS II PCc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 106193 | 106204 | x | x | x | x |
| 106194 | 106205 | x | x | x | x |
| 106195 | 106206 | x | x | x | x |
| 106196 | 106207 | 106215 | 106223 | 106231 | 106239 |
| 106197 | 106208 | 106216 | 106224 | 106232 | 106240 |
| 106198 | 106209 | 106217 | 106225 | 106233 | 106241 |
| 106199 | 106210 | 106218 | 106226 | 106234 | 106242 |
| 106200 | 106211 | 106219 | 106227 | 106235 | 106243 |
| 106201 | 106212 | 106220 | 106228 | 106236 | 106244 |
| 106202 | 106213 | 106221 | 106229 | 106237 | 106245 |
| 106203 | 106214 | 106222 | 106230 | 106238 | 106246 |

PRIMA CLASS II PC DALI

| Code | Type |
|--------|---------------------------------------|
| 106247 | PRIMA 1.2ft CLASS II PC 1300/840 DALI |
| 106248 | PRIMA 1.2ft CLASS II PC 1600/840 DALI |
| 106249 | PRIMA 1.2ft CLASS II PC 2200/840 DALI |
| 106250 | PRIMA 1.4ft CLASS II PC 2600/840 DALI |
| 106251 | PRIMA 1.4ft CLASS II PC 3200/840 DALI |
| 106252 | PRIMA 1.4ft CLASS II PC 4400/840 DALI |
| 106253 | PRIMA 1.4ft CLASS II PC 6400/840 DALI |
| 106254 | PRIMA 1.5ft CLASS II PC 3250/840 DALI |
| 106255 | PRIMA 1.5ft CLASS II PC 4000/840 DALI |
| 106256 | PRIMA 1.5ft CLASS II PC 5500/840 DALI |
| 106257 | PRIMA 1.5ft CLASS II PC 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 106258 | x | x | x | x | x |
| 106259 | x | x | x | x | x |
| 106260 | x | x | x | x | x |
| 106261 | 106272 | 106280 | 106288 | 106296 | 106701 |
| 106262 | 106273 | 106281 | 106289 | 106297 | 106702 |
| 106263 | 106274 | 106282 | 106290 | 106298 | 106703 |
| 106264 | 106275 | 106283 | 106291 | 106299 | 106704 |
| 106265 | 106276 | 106284 | 106292 | 106300 | 106304 |
| 106266 | 106277 | 106285 | 106293 | 106301 | 106305 |
| 106267 | 106278 | 106286 | 106294 | 106302 | 106306 |
| 106268 | 106279 | 106287 | 106295 | 106303 | 106307 |

PRIMA CLASS II PCc DALI

| Code | Type |
|--------|--|
| 106316 | PRIMA 1.2ft CLASS II PCc 1300/840 DALI |
| 106317 | PRIMA 1.2ft CLASS II PCc 1600/840 DALI |
| 106318 | PRIMA 1.2ft CLASS II PCc 2200/840 DALI |
| 106319 | PRIMA 1.4ft CLASS II PCc 2600/840 DALI |
| 106320 | PRIMA 1.4ft CLASS II PCc 3200/840 DALI |
| 106321 | PRIMA 1.4ft CLASS II PCc 4400/840 DALI |
| 106322 | PRIMA 1.4ft CLASS II PCc 6400/840 DALI |
| 106323 | PRIMA 1.5ft CLASS II PCc 3250/840 DALI |
| 106324 | PRIMA 1.5ft CLASS II PCc 4000/840 DALI |
| 106325 | PRIMA 1.5ft CLASS II PCc 5500/840 DALI |
| 106326 | PRIMA 1.5ft CLASS II PCc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 106327 | x | x | x | x | x |
| 106328 | x | x | x | x | x |
| 106329 | x | x | x | x | x |
| 106330 | 106341 | 106349 | 106357 | 106365 | 106705 |
| 106331 | 106342 | 106350 | 106358 | 106366 | 106706 |
| 106332 | 106343 | 106351 | 106359 | 106367 | 106707 |
| 106333 | 106344 | 106352 | 106360 | 106368 | 106708 |
| 106334 | 106345 | 106353 | 106361 | 106369 | 106373 |
| 106335 | 106346 | 106354 | 106362 | 106370 | 106374 |
| 106336 | 106347 | 106355 | 106363 | 106371 | 106375 |
| 106337 | 106348 | 106356 | 106364 | 106372 | 106376 |

LEGEND

1F 1-phase 2 core through-wiring in the luminaire
3F 3-phase 4 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 4 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

DALI version with digital dimmable driver DALI
DALI 1F 1-phase 4 core through-wiring in the luminaire
DALI 3F 3-phase 6 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 6 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA CLASS II PC



PRIMA TRS

NEW



... exceptionally low UGR, impact resistant.

USE

Compared to its basic version, **fully transparent** PRIMA TRS boasts considerably **lower UGR values**.

It is designed for indoor spaces, **industrial premises, agricultural buildings, warehouses as well as sports facilities, transport hubs, car parks and garages, workshops and laboratories** with no explosion hazard.

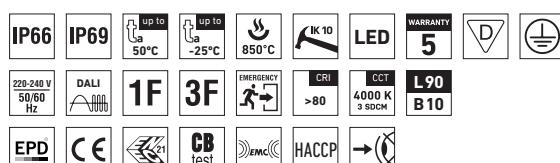
IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 50^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 7 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Certificates: **EPD, ENEC, CB, HACCP**



PRIMA TRS PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-25 °C** for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **165 lm/W**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **translucent PC** (high mechanical resistance, UV stability)
- Body: **transparent PC** (high mechanical resistance, UV stability)

- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 50 °C - body: transparent polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | |
| PRIMA 1.2ft TRS PC 1300/840 | 50 | 1310 | 1230 | 8,2 | 150 | 22.1 / 21.2 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.2ft TRS PC 1600/840 | 50 | 1560 | 1470 | 9,8 | 150 | 22.7 / 21.9 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.2ft TRS PC 2200/840 | 45 | 2140 | 2010 | 13,2 | 152 | 23.8 / 22.9 | 0,9 | 610 | 110 - 370 |
| PRIMA 1.4ft TRS PC 2600/840 | 50 | 2600 | 2440 | 16,1 | 152 | 22.2 / 21.4 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft TRS PC 3200/840 | 50 | 3100 | 2910 | 19,1 | 152 | 22.8 / 22.0 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft TRS PC 4400/840 | 45 | 4300 | 4040 | 26,0 | 155 | 23.9 / 23.1 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft TRS PC 6400/840 | 45 | 6120 | 5750 | 36,1 | 159 | 25.2 / 24.3 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.4ft TRS PC 8000/840 | 35 | 8050 | 7570 | 47,3 | 160 | 26.1 / 25.3 | 1,7 | 1170 | 700 - 960 |
| PRIMA 1.5ft TRS PC 3250/840 | 50 | 3240 | 3050 | 19,5 | 156 | 22.2 / 21.4 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft TRS PC 4000/840 | 50 | 3850 | 3620 | 23,3 | 155 | 22.8 / 22.0 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft TRS PC 5500/840 | 45 | 5340 | 5020 | 31,9 | 157 | 23.9 / 23.1 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft TRS PC 8000/840 | 45 | 7780 | 7310 | 44,3 | 165 | 25.3 / 24.4 | 2,0 | 1450 | 970 - 1230 |
| PRIMA 1.5ft TRS PC 10000/840 | 35 | 9890 | 9300 | 58,6 | 159 | 26.1 / 25.3 | 2,0 | 1450 | 970 - 1230 |

PRIMA TRS PC

| Code | Type |
|--------|------------------------------|
| 104977 | PRIMA 1.2ft TRS PC 1300/840 |
| 104978 | PRIMA 1.2ft TRS PC 1600/840 |
| 104979 | PRIMA 1.2ft TRS PC 2200/840 |
| 104980 | PRIMA 1.4ft TRS PC 2600/840 |
| 104981 | PRIMA 1.4ft TRS PC 3200/840 |
| 104982 | PRIMA 1.4ft TRS PC 4400/840 |
| 104983 | PRIMA 1.4ft TRS PC 6400/840 |
| 106773 | PRIMA 1.4ft TRS PC 8000/840 |
| 104984 | PRIMA 1.5ft TRS PC 3250/840 |
| 104985 | PRIMA 1.5ft TRS PC 4000/840 |
| 104986 | PRIMA 1.5ft TRS PC 5500/840 |
| 104987 | PRIMA 1.5ft TRS PC 8000/840 |
| 106774 | PRIMA 1.5ft TRS PC 10000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 104988 | 104999 | x | x | x | x |
| 104989 | 105000 | x | x | x | x |
| 104990 | 105001 | x | x | x | x |
| 104991 | 105002 | 105010 | 105018 | 105026 | 105034 |
| 104992 | 105003 | 105011 | 105019 | 105027 | 105035 |
| 104993 | 105004 | 105012 | 105020 | 105028 | 105036 |
| 104994 | 105005 | 105013 | 105021 | 105029 | 105037 |
| 106775 | 106777 | x | x | x | x |
| 104995 | 105006 | 105014 | 105022 | 105030 | 105038 |
| 104996 | 105007 | 105015 | 105023 | 105031 | 105039 |
| 104997 | 105008 | 105016 | 105024 | 105032 | 105040 |
| 104998 | 105009 | 105017 | 105025 | 105033 | 105041 |
| 106776 | 106778 | x | x | x | x |

PRIMA TRS PCc

| Code | Type |
|--------|-------------------------------|
| 105042 | PRIMA 1.2ft TRS PCc 1300/840 |
| 105043 | PRIMA 1.2ft TRS PCc 1600/840 |
| 105044 | PRIMA 1.2ft TRS PCc 2200/840 |
| 105045 | PRIMA 1.4ft TRS PCc 2600/840 |
| 105046 | PRIMA 1.4ft TRS PCc 3200/840 |
| 105047 | PRIMA 1.4ft TRS PCc 4400/840 |
| 105048 | PRIMA 1.4ft TRS PCc 6400/840 |
| 106779 | PRIMA 1.4ft TRS PCc 8000/840 |
| 105049 | PRIMA 1.5ft TRS PCc 3250/840 |
| 105050 | PRIMA 1.5ft TRS PCc 4000/840 |
| 105051 | PRIMA 1.5ft TRS PCc 5500/840 |
| 105052 | PRIMA 1.5ft TRS PCc 8000/840 |
| 106780 | PRIMA 1.5ft TRS PCc 10000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 105053 | 105064 | x | x | x | x |
| 105054 | 105065 | x | x | x | x |
| 105055 | 105066 | x | x | x | x |
| 105056 | 105067 | 105075 | 105083 | 105091 | 105099 |
| 105057 | 105068 | 105076 | 105084 | 105092 | 105100 |
| 105058 | 105069 | 105077 | 105085 | 105093 | 105101 |
| 105059 | 105070 | 105078 | 105086 | 105094 | 105102 |
| 106781 | 106783 | x | x | x | x |
| 105060 | 105071 | 105079 | 105087 | 105095 | 105103 |
| 105061 | 105072 | 105080 | 105088 | 105096 | 105104 |
| 105062 | 105073 | 105081 | 105089 | 105097 | 105105 |
| 105063 | 105074 | 105082 | 105090 | 105098 | 105106 |
| 106782 | 106784 | x | x | x | x |

PRIMA TRS PC DALI

| Code | Type |
|--------|-----------------------------------|
| 105107 | PRIMA 1.2ft TRS PC 1300/840 DALI |
| 105108 | PRIMA 1.2ft TRS PC 1600/840 DALI |
| 105109 | PRIMA 1.2ft TRS PC 2200/840 DALI |
| 105110 | PRIMA 1.4ft TRS PC 2600/840 DALI |
| 105111 | PRIMA 1.4ft TRS PC 3200/840 DALI |
| 105112 | PRIMA 1.4ft TRS PC 4400/840 DALI |
| 105113 | PRIMA 1.4ft TRS PC 6400/840 DALI |
| 106785 | PRIMA 1.4ft TRS PC 8000/840 DALI |
| 105114 | PRIMA 1.5ft TRS PC 3250/840 DALI |
| 105115 | PRIMA 1.5ft TRS PC 4000/840 DALI |
| 105116 | PRIMA 1.5ft TRS PC 5500/840 DALI |
| 105117 | PRIMA 1.5ft TRS PC 8000/840 DALI |
| 106786 | PRIMA 1.5ft TRS PC 10000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 105118 | x | x | x | x | x |
| 105119 | x | x | x | x | x |
| 105120 | x | x | x | x | x |
| 105121 | 105132 | 105140 | 105148 | 105156 | 106645 |
| 105122 | 105133 | 105141 | 105149 | 105157 | 106646 |
| 105123 | 105134 | 105142 | 105150 | 105158 | 106647 |
| 105124 | 105135 | 105143 | 105151 | 105159 | 106648 |
| 106787 | 106789 | x | x | x | x |
| 105125 | 105136 | 105144 | 105152 | 105160 | 105164 |
| 105126 | 105137 | 105145 | 105153 | 105161 | 105165 |
| 105127 | 105138 | 105146 | 105154 | 105162 | 105166 |
| 105128 | 105139 | 105147 | 105155 | 105163 | 105167 |
| 106788 | 106790 | x | x | x | x |

PRIMA TRS PCc DALI

| Code | Type |
|--------|------------------------------------|
| 105176 | PRIMA 1.2ft TRS PCc 1300/840 DALI |
| 105177 | PRIMA 1.2ft TRS PCc 1600/840 DALI |
| 105178 | PRIMA 1.2ft TRS PCc 2200/840 DALI |
| 105179 | PRIMA 1.4ft TRS PCc 2600/840 DALI |
| 105180 | PRIMA 1.4ft TRS PCc 3200/840 DALI |
| 105181 | PRIMA 1.4ft TRS PCc 4400/840 DALI |
| 105182 | PRIMA 1.4ft TRS PCc 6400/840 DALI |
| 106791 | PRIMA 1.4ft TRS PCc 8000/840 DALI |
| 105183 | PRIMA 1.5ft TRS PCc 3250/840 DALI |
| 105184 | PRIMA 1.5ft TRS PCc 4000/840 DALI |
| 105185 | PRIMA 1.5ft TRS PCc 5500/840 DALI |
| 105186 | PRIMA 1.5ft TRS PCc 8000/840 DALI |
| 106792 | PRIMA 1.5ft TRS PCc 10000/840 DALI |

Digital dimmable driver DALI - stainless clips [c]

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 105187 | x | x | x | x | x |
| 105188 | x | x | x | x | x |
| 105189 | x | x | x | x | x |
| 105190 | 105201 | 105209 | 105217 | 105225 | 106649 |
| 105191 | 105202 | 105210 | 105218 | 105226 | 106650 |
| 105192 | 105203 | 105211 | 105219 | 105227 | 106651 |
| 105193 | 105204 | 105212 | 105220 | 105228 | 106652 |
| 106793 | 106795 | x | x | x | x |
| 105194 | 105205 | 105213 | 105221 | 105229 | 105233 |
| 105195 | 105206 | 105214 | 105222 | 105230 | 105234 |
| 105196 | 105207 | 105215 | 105223 | 105231 | 105235 |
| 105197 | 105208 | 105216 | 105224 | 105232 | 105236 |
| 106794 | 106796 | x | x | x | x |

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
 b) Suspension with the use of stainless hooks
 c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA TRS PC



PRIMA SNS

NEW



... with movement detector, impact resistant.

USE

It is designed for indoor spaces, **industrial premises, agricultural buildings, warehouses as well as sports facilities, transport hubs, car parks and garages, workshops and laboratories** with no explosion hazard.

IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

Made of clear polycarbonate, the base and the diffuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 50^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended

- Optional throughwiring (up to 5 wires inside the light fitting)
- Standard model CRI > 80: 4000 K
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Certificates: **ENEC, CB, HACCP**



PRIMA SNS PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-25 °C for version with emergency back-up M1h, M3h
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: **164 lm/W**
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: **translucent PC** (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)

- Reflector: steel sheet, white colour (RAL 9003)
- **Mounting clips:** stainless steel, stainless steel hooks included
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5 (standard), or rubber (SBS)
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|------------|
| Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | |
| PRIMA 1.4ft SNS PC 2600/840 | 50 | 2340 | 2180 | 14,4 | 151 | 22.0 / 21.1 | 1,8 | 1170 | 700 - 960 |
| PRIMA 1.4ft SNS PC 3200/840 | 50 | 2790 | 2590 | 17,1 | 151 | 22.6 / 21.7 | 1,8 | 1170 | 700 - 960 |
| PRIMA 1.4ft SNS PC 4400/840 | 45 | 3840 | 3570 | 23,2 | 154 | 23.7 / 22.9 | 1,8 | 1170 | 700 - 960 |
| PRIMA 1.4ft SNS PC 6400/840 | 45 | 5510 | 5120 | 32,4 | 158 | 24.9 / 24.1 | 1,8 | 1170 | 700 - 960 |
| PRIMA 1.4ft SNS PC 8000/840 | 35 | 7250 | 6740 | 42,5 | 159 | 25.9 / 25.1 | 1,8 | 1170 | 700 - 960 |
| PRIMA 1.5ft SNS PC 3250/840 | 50 | 2980 | 2770 | 17,9 | 155 | 22.1 / 21.2 | 2,1 | 1450 | 970 - 1230 |
| PRIMA 1.5ft SNS PC 4000/840 | 50 | 3540 | 3290 | 21,4 | 154 | 22.7 / 21.8 | 2,1 | 1450 | 970 - 1230 |
| PRIMA 1.5ft SNS PC 5500/840 | 45 | 4880 | 4540 | 29,1 | 156 | 23.8 / 22.9 | 2,1 | 1450 | 970 - 1230 |
| PRIMA 1.5ft SNS PC 8000/840 | 45 | 7160 | 6660 | 40,7 | 164 | 25.1 / 24.3 | 2,1 | 1450 | 970 - 1230 |
| PRIMA 1.5ft SNS PC 10000/840 | 35 | 9100 | 8460 | 53,9 | 157 | 25.9 / 25.1 | 2,1 | 1450 | 970 - 1230 |

PRIMA SNS PC

| Code | Type |
|--------|------------------------------|
| 106385 | PRIMA 1.4ft SNS PC 2600/840 |
| 106386 | PRIMA 1.4ft SNS PC 3200/840 |
| 106387 | PRIMA 1.4ft SNS PC 4400/840 |
| 106388 | PRIMA 1.4ft SNS PC 6400/840 |
| 106877 | PRIMA 1.4ft SNS PC 8000/840 |
| 106389 | PRIMA 1.5ft SNS PC 3250/840 |
| 106390 | PRIMA 1.5ft SNS PC 4000/840 |
| 106391 | PRIMA 1.5ft SNS PC 5500/840 |
| 106392 | PRIMA 1.5ft SNS PC 8000/840 |
| 106878 | PRIMA 1.5ft SNS PC 10000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 106393 | 106401 | 106409 | 106417 | 106425 | 106433 |
| 106394 | 106402 | 106410 | 106418 | 106426 | 106434 |
| 106395 | 106403 | 106411 | 106419 | 106427 | 106435 |
| 106396 | 106404 | 106412 | 106420 | 106428 | 106436 |
| 106879 | 106881 | x | x | x | x |
| 106397 | 106405 | 106413 | 106421 | 106429 | 106437 |
| 106398 | 106406 | 106414 | 106422 | 106430 | 106438 |
| 106399 | 106407 | 106415 | 106423 | 106431 | 106439 |
| 106400 | 106408 | 106416 | 106424 | 106432 | 106440 |
| 106880 | 106882 | x | x | x | x |

PRIMA SNS PCc

| Code | Type |
|--------|-------------------------------|
| 106441 | PRIMA 1.4ft SNS PCc 2600/840 |
| 106442 | PRIMA 1.4ft SNS PCc 3200/840 |
| 106443 | PRIMA 1.4ft SNS PCc 4400/840 |
| 106444 | PRIMA 1.4ft SNS PCc 6400/840 |
| 106883 | PRIMA 1.4ft SNS PCc 8000/840 |
| 106445 | PRIMA 1.5ft SNS PCc 3250/840 |
| 106446 | PRIMA 1.5ft SNS PCc 4000/840 |
| 106447 | PRIMA 1.5ft SNS PCc 5500/840 |
| 106448 | PRIMA 1.5ft SNS PCc 8000/840 |
| 106884 | PRIMA 1.5ft SNS PCc 10000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 106449 | 106457 | 106465 | 106473 | 106481 | 106489 |
| 106450 | 106458 | 106466 | 106474 | 106482 | 106490 |
| 106451 | 106459 | 106467 | 106475 | 106483 | 106491 |
| 106452 | 106460 | 106468 | 106476 | 106484 | 106492 |
| 106885 | 106887 | x | x | x | x |
| 106453 | 106461 | 106469 | 106477 | 106485 | 106493 |
| 106454 | 106462 | 106470 | 106478 | 106486 | 106494 |
| 106455 | 106463 | 106471 | 106479 | 106487 | 106495 |
| 106456 | 106464 | 106472 | 106480 | 106488 | 106496 |
| 106886 | 106888 | x | x | x | x |

PRIMA SNS PC CORRIDOR

| Code | Type |
|--------|---------------------------------------|
| 106497 | PRIMA 1.4ft SNS PC 2600/840 CORRIDOR |
| 106498 | PRIMA 1.4ft SNS PC 3200/840 CORRIDOR |
| 106499 | PRIMA 1.4ft SNS PC 4400/840 CORRIDOR |
| 106500 | PRIMA 1.4ft SNS PC 6400/840 CORRIDOR |
| 106889 | PRIMA 1.4ft SNS PC 8000/840 CORRIDOR |
| 106501 | PRIMA 1.5ft SNS PC 3250/840 CORRIDOR |
| 106502 | PRIMA 1.5ft SNS PC 4000/840 CORRIDOR |
| 106503 | PRIMA 1.5ft SNS PC 5500/840 CORRIDOR |
| 106504 | PRIMA 1.5ft SNS PC 8000/840 CORRIDOR |
| 106890 | PRIMA 1.5ft SNS PC 10000/840 CORRIDOR |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 106505 | 106513 | 106521 | 106529 | 106537 | 106709 |
| 106506 | 106514 | 106522 | 106530 | 106538 | 106710 |
| 106507 | 106515 | 106523 | 106531 | 106539 | 106711 |
| 106508 | 106516 | 106524 | 106532 | 106540 | 106712 |
| 106891 | 106893 | x | x | x | x |
| 106509 | 106517 | 106525 | 106533 | 106541 | 106545 |
| 106510 | 106518 | 106526 | 106534 | 106542 | 106546 |
| 106511 | 106519 | 106527 | 106535 | 106543 | 106547 |
| 106512 | 106520 | 106528 | 106536 | 106544 | 106548 |
| 106892 | 106894 | x | x | x | x |

PRIMA SNS PCc CORRIDOR

| Code | Type |
|--------|--|
| 106557 | PRIMA 1.4ft SNS PCc 2600/840 CORRIDOR |
| 106558 | PRIMA 1.4ft SNS PCc 3200/840 CORRIDOR |
| 106559 | PRIMA 1.4ft SNS PCc 4400/840 CORRIDOR |
| 106560 | PRIMA 1.4ft SNS PCc 6400/840 CORRIDOR |
| 106895 | PRIMA 1.4ft SNS PCc 8000/840 CORRIDOR |
| 106561 | PRIMA 1.5ft SNS PCc 3250/840 CORRIDOR |
| 106562 | PRIMA 1.5ft SNS PCc 4000/840 CORRIDOR |
| 106563 | PRIMA 1.5ft SNS PCc 5500/840 CORRIDOR |
| 106564 | PRIMA 1.5ft SNS PCc 8000/840 CORRIDOR |
| 106896 | PRIMA 1.5ft SNS PCc 10000/840 CORRIDOR |

Digital dimmable driver DALI - stainless clips [c]

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|--------|--------|--------|--------|
| 106565 | 106573 | 106581 | 106589 | 106597 | 106713 |
| 106566 | 106574 | 106582 | 106590 | 106598 | 106714 |
| 106567 | 106575 | 106583 | 106591 | 106599 | 106715 |
| 106568 | 106576 | 106584 | 106592 | 106600 | 106716 |
| 106897 | 106899 | x | x | x | x |
| 106569 | 106577 | 106585 | 106593 | 106601 | 106605 |
| 106570 | 106578 | 106586 | 106594 | 106602 | 106606 |
| 106571 | 106579 | 106587 | 106595 | 106603 | 106607 |
| 106572 | 106580 | 106588 | 106596 | 106604 | 106608 |
| 106898 | 106900 | x | x | x | x |

LEGEND

| | |
|------------------------|---|
| 1F | 1-phase 3 core through-wiring in the luminaire |
| 3F | 3-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |
| CORRIDOR | version with digital dimmable driver DALI and set corridor function |
| CORRIDOR 1F | 1-phase 5 core through-wiring in the luminaire |
| CORRIDOR 3F | 3-phase 7 core through-wiring in the luminaire |
| CORRIDOR 3F Mxh | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



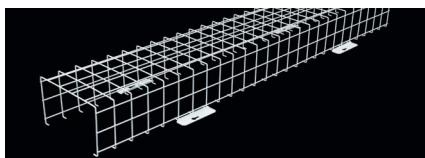
LIGHT FITTING DETAILED VIEW

PRIMA SNS PC



OM – protective grid

The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws. The surface is treated with the RAL 9003 powder-coated colour.



| Code | Type | Description | Weight [kg] |
|-------|--------|---|-------------|
| 11941 | OM 218 | protective grid for types 218, 214/224, 2.2ft (700×220×130 mm) | 1,0 |
| 11942 | OM 236 | protective grid for types 236, 228/254, 2.4ft (1300×220×130 mm) | 1,7 |
| 11943 | OM 258 | protective grid for types 258, 235/249/280, 2.5ft (1600×220×130 mm) | 2,0 |

BZ – side hanger

It serves to attach the light fitting to the wall with the possibility of its positioning.



| Code | Type | Description | Weight [kg] |
|-------|------|---|-------------|
| 90002 | BZ | side hanger with blocking (set for 1 light fitting) | 0,4 |

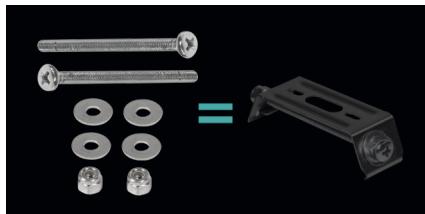
Canalis busbar system connector

The connector enables a quick 1 phase or 3 phase interconnection of light fittings without their opening.



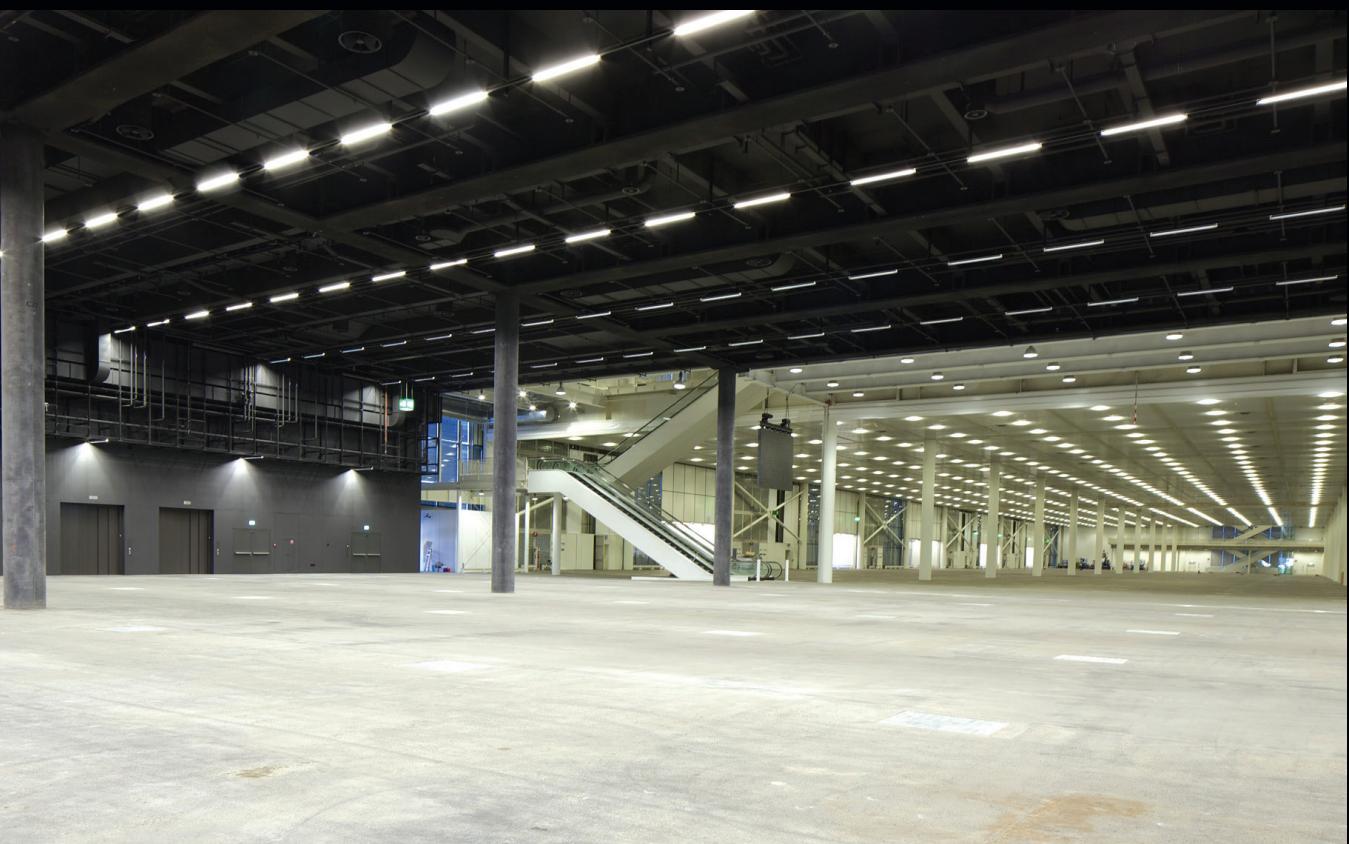
| Code | Type | Description | Weight [kg] |
|-------|--------------|---|-------------|
| 79001 | KBA 40 ZU | light fitting suspended holder - Canalis KBA system | 0,1 |
| 70002 | KBC 10 CC211 | connector with 1 m cable - Canalis KBA system | 0,2 |

Locking set for bracket G3



| Code | Type | Description | Weight [kg] |
|-------|--------|---|-------------|
| 11553 | G3 SET | a locking set for G3 stainless steel bracket (bolts, nuts, washers) | 0,2 |

INNOVA



INDUSTRIAL
PLASTIC
IP66 / IP69
PLUG AND PLAY



INNOVA – industrial plastic LED light fitting



IP66 | IP69



IP66 | IP69



IP66 | IP69



IP66 | IP69



IP66 | IP69



IP66 | IP69



IP66 | IP69



INNOVA



... dustproof, waterproof and impact-resistant.

USE

Closed and non-dismountable light fitting according to the standard ČSN EN 60598-1 part 4 suitable for indoor and outdoor space (even without shelter), **industrial, warehouse and agricultural buildings, sports premises, transport terminals, parking lots and garages, workshops and laboratories** without explosion hazard. The structural design of the light fitting (IP69) allows even placement in food-processing industry - HACCP.

The light fitting resists dust, humidity and washing with spouting water up to 80°C. The body and the diffuser made of PC material have high mechanical resistance against impact and deformation.

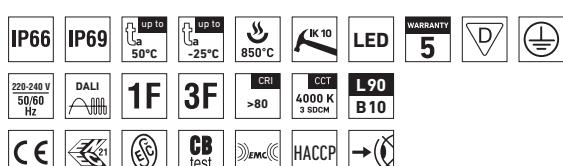
An external terminal strip makes it easy and quick to connect the supply cable with no need to open the **fitting (PLUG and PLAY system)**.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^\circ\text{C}$ to $t_a = 50^\circ\text{C}$
- Lifetime: 50 000 hours / L90B10
- High mechanical resistance IK10
- Variable suspension pitch; optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- **External terminal strip makes it easy to connect the supply cable – PLUG and PLAY system**
- Optional arrangement of light fittings in line without gaps

- Fully automatic 100% control of functionality and tightness (leak test) during production
- Easy cleaning and maintenance without need of replacing the light sources
- Eliminated risk of mechanical and electrostatic damage to LED chips
- Optional throughwiring (up to 5 wires inside the light fitting)
- Optional delivery in dimmable version
- Certificates: **ESČ, ENEC, CB, HACCP**



INNOVA PC



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **$t_a = 50^\circ\text{C}$**
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: 165 lm/W
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: translucent PC (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)
- Snap-in mounting clips: stainless steel
- Ventilation membrane in the base eliminating vacuum and condensate build-up

- 3 or 5-pole **external terminal strip**, conductor cross-sectional area: 1.5 or 2.5 mm²
- Fittings may be **lined with zero distance** between them
- Optional constant luminous flux (CLO) in DALI version
- Electric equipment: LED modules, fixed output driver or DALI driver
- The package includes: stainless hooks and stainless brackets
- The values stated for power consumption and luminous flux are in a tolerance of $\pm 7,5\%$

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|-----------|
| Up to ambient temperature $t_a = 50^\circ\text{C}$ - body: grey polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | |
| INNOVA 1.4ft PC 2600/840 | 50 | 2600 | 2440 | 16,1 | 152 | 22.1 / 20.4 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft PC 3200/840 | 50 | 3100 | 2910 | 19,1 | 152 | 22.7 / 21.0 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft PC 4400/840 | 45 | 4300 | 4040 | 26,0 | 155 | 23.9 / 22.2 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft PC 6400/840 | 45 | 6120 | 5750 | 36,1 | 159 | 25.1 / 23.4 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft PC 8800/840 | 40 | 8690 | 8170 | 49,7 | 164 | 26.3 / 24.6 | 1,6 | 1170 | 420 - 700 |
| INNOVA 1.5ft PC 3250/840 | 50 | 3240 | 3050 | 19,5 | 156 | 22.1 / 20.5 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft PC 4000/840 | 50 | 3850 | 3620 | 23,3 | 155 | 22.7 / 21.1 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft PC 5500/840 | 45 | 5340 | 5020 | 31,9 | 157 | 23.9 / 22.2 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft PC 8000/840 | 45 | 7780 | 7310 | 44,3 | 165 | 25.2 / 23.5 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft PC 11000/840 | 40 | 12310 | 11570 | 71,1 | 163 | 26.8 / 25.1 | 1,9 | 1450 | 700 - 980 |

INNOVA 1.4ft PC 3200/840 = suitable replacement for tube light fitting PRIMA 136 PC – 1 × 36 W
 INNOVA 1.4ft PC 6400/840 = suitable replacement for tube light fitting PRIMA 236 PC – 2 × 36 W
 INNOVA 1.5ft PC 4000/840 = suitable replacement for tube light fitting PRIMA 158 PC – 1 × 58 W
 INNOVA 1.5ft PC 8000/840 = suitable replacement for tube light fitting PRIMA 258 PC – 2 × 58 W

INNOVA PC

| Type |
|------------------------------|
| INNOVA 1.4ft PC 2600/840... |
| INNOVA 1.4ft PC 3200/840... |
| INNOVA 1.4ft PC 4400/840... |
| INNOVA 1.4ft PC 6400/840... |
| INNOVA 1.4ft PC 8800/840... |
| INNOVA 1.5ft PC 3250/840... |
| INNOVA 1.5ft PC 4000/840... |
| INNOVA 1.5ft PC 5500/840... |
| INNOVA 1.5ft PC 8000/840... |
| INNOVA 1.5ft PC 11000/840... |

Diffuser made of translucent polycarbonate

| 1x3P | 1x5P | DALI 1x5P | 2x3P | 2x5P | DALI 2x5P |
|-------|-------|-----------|-------|-------|-----------|
| 72111 | 72112 | 72113 | 72115 | 72116 | 72117 |
| 72121 | 72122 | 72123 | 72125 | 72126 | 72127 |
| 72131 | 72132 | 72133 | 72135 | 72136 | 72137 |
| 72141 | 72142 | 72143 | 72145 | 72146 | 72147 |
| 72101 | 72102 | 72103 | 72105 | 72106 | 72107 |
| 72151 | 72152 | 72153 | 72155 | 72156 | 72157 |
| 72161 | 72162 | 72163 | 72165 | 72166 | 72167 |
| 72171 | 72172 | 72173 | 72175 | 72176 | 72177 |
| 72181 | 72182 | 72183 | 72185 | 72186 | 72187 |
| 72191 | 72192 | 72193 | 72195 | 72196 | 72197 |

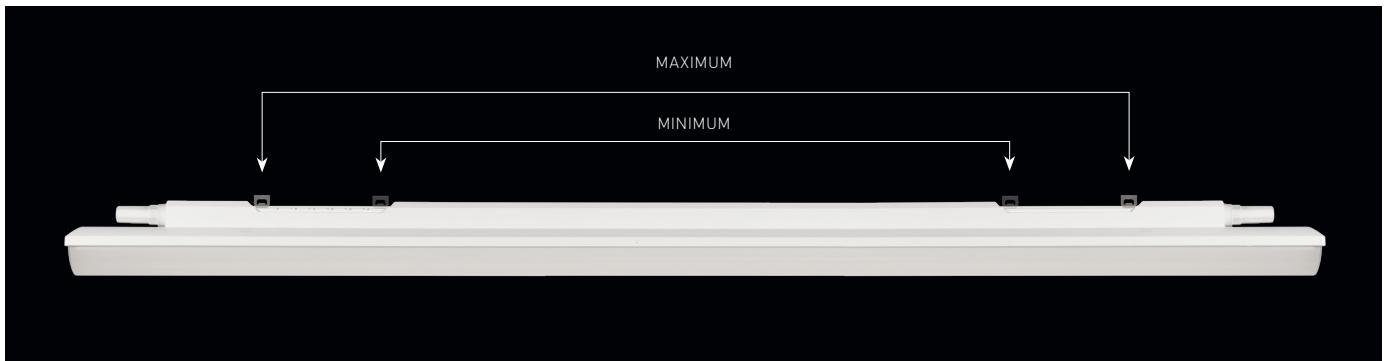
LEGEND

1x3P - a version featuring a non-dimmable ballast and a single 3-pole external terminal strip
1x5P - a version featuring a non-dimmable ballast and a single 5-pole external terminal strip
DALI 1x5P - a version featuring a digitally dimmable ballast and a single 5-pole external terminal strip

2x3P - a version featuring a non-dimmable ballast, two 3-pole external terminal strips and 3-wire connecting cables (1F), for continuous row installation
2x5P - a version featuring a non-dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (3F), for continuous row installation
DALI 2x5P - a version featuring a digitally dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (DALI 1F), for continuous row installation

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**VARIABLE INSTALLATION PITCH****LIGHT FITTING INTERCONNECTION**

An external terminal strip is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture (PLUG and PLAY system)

Interconnection of light fittings without spacing

**LIGHT FITTING DETAILED VIEW**

INNOVA PC



INNOVA NB



... impact-resistant, for areas with high ceilings of 8 – 12 m.

USE

Closed and non-dismountable light fitting according to the standard ČSN EN 60598-1 part 4 **with Narrow Beam** optics suitable for inside and outside spaces (even without shelter) intended for suspension height from 8 to 12 m, e.g. **inside or outside walls and corridors of high industrial, agricultural, warehouse or sports buildings, rack aisles in warehouses, outdoor playgrounds, covered sports arenas**. The structural design of the light fitting (IP69) allows even placement in food-processing industry - HACCP.

The light fitting resists dust, humidity and washing with spouting water up to 80°C. The body and the diffuser made of PC material have high mechanical resistance against impact and deformation.

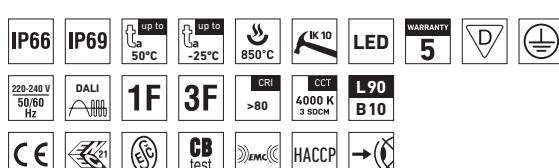
An external terminal strip makes it easy and quick to connect the supply cable with no need to open the **fitting (PLUG and PLAY system)**.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^\circ\text{C}$ to $t_a = 45^\circ\text{C}$
- Lifetime: 50 000 hours / L90B10
- High mechanical resistance IK10
- **Narrow Beam (NB)**, ceiling height 8 to 12 m
- **Variable suspension pitch**; optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- **External terminal strip makes it easy to connect the supply cable – PLUG and PLAY system**
- Optional arrangement of light fittings in line without gaps

- **Fully automatic 100% control of functionality and tightness (leak test) during production**
- Easy cleaning and maintenance without need of replacing the light sources
- Eliminated risk of mechanical and electrostatic damage to LED chips
- Optional throughwiring (up to 5 wires inside the light fitting)
- Optional delivery in dimmable version
- Certificates: **ESČ, ENEC, CB, HACCP**



INNOVA NB PC



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **$t_a = 45^\circ\text{C}$**
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: 153 lm/W
- CRI > 80: 4000 K – standard
- CRI > 80: 3000 K, 5000 K, 6500 K – on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K – on request
- MacAdam = 3 SDCM
- Diffuser: transparent PC with Fresnel lenses, **Narrow Beam** (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)
- Snap-in mounting clips: stainless steel
- Ventilation membrane in the base eliminating vacuum and condensate build-up

- 3 or 5-pole **external terminal strip**, conductor cross-sectional area: 1.5 or 2.5 mm²
- Fittings may be **lined with zero distance** between them
- Optional constant luminous flux (CLO) in DALI version
- Electric equipment: LED modules, fixed output driver or DALI driver
- The package includes: stainless hooks and stainless brackets
- The values stated for power consumption and luminous flux are in a tolerance of $\pm 7.5\%$

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|-----------|
| Up to ambient temperature $t_a = 45^\circ\text{C}$ - body: grey polycarbonate - diffuser with Fresnel lenses, NB (Narrow Beam), transparent polycarbonate | | | | | | | | | |
| INNOVA 1.4ft NB PC 4400/840 | 45 | 4300 | 3740 | 26,0 | 144 | 25.1 / 19.8 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft NB PC 6400/840 | 45 | 6120 | 5320 | 36,1 | 147 | 26.4 / 21.1 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.5ft NB PC 5500/840 | 45 | 5340 | 4650 | 31,9 | 146 | 25.2 / 19.9 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft NB PC 8000/840 | 45 | 7780 | 6770 | 44,3 | 153 | 26.5 / 21.2 | 1,8 | 1450 | 700 - 980 |

INNOVA NB

Diffuser with Fresnel lenses, Narrow Beam, transparent polycarbonate

| Type | 1x3P | 1x5P | DALI 1x5P | 2x3P | 2x5P | DALI 2x5P |
|--------------------------------|-------|-------|-----------|-------|-------|-----------|
| INNOVA 1.4ft NB PC 4400/840... | 72211 | 72212 | 72213 | 72215 | 72216 | 72217 |
| INNOVA 1.4ft NB PC 6400/840... | 72221 | 72222 | 72223 | 72225 | 72226 | 72227 |
| INNOVA 1.5ft NB PC 5500/840... | 72231 | 72232 | 72233 | 72235 | 72236 | 72237 |
| INNOVA 1.5ft NB PC 8000/840... | 72241 | 72242 | 72243 | 72245 | 72246 | 72247 |

Example of type marking: 72223 = INNOVA 1.4ft NB PC 6400/840 **DALI 1x5P**

LEGEND

- 1x3P** - a version featuring a non-dimmable ballast and a single 3-pole external terminal strip
- 1x5P** - a version featuring a non-dimmable ballast and a single 5-pole external terminal strip
- DALI 1x5P** - a version featuring a digitally dimmable ballast and a single 5-pole external terminal strip
- 2x3P** - a version featuring a non-dimmable ballast, two 3-pole external terminal strips and 3-wire connecting cables (1F), for continuous row installation
- 2x5P** - a version featuring a non-dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (3F), for continuous row installation
- DALI 2x5P** - a version featuring a digitally dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (DALI 1F), for continuous row installation

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



VARIABLE INSTALLATION PITCH



LIGHT FITTING INTERCONNECTION

An external terminal strip is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture (PLUG and PLAY system)

Interconnection of light fittings without spacing



LIGHT FITTING DETAILED VIEW

INNOVA NB



INNOVA WB



... impact-resistant, for areas with low ceilings of 2.5 – 5 m.

USE

Closed and non-dismountable light fitting according to the standard ČSN EN 60598-1 part 4 **with Wide Beam** optics, suitable for inside and outside spaces (even without shelter), intended for suspension height from 2.5 to 5m, e.g.: **production premises, parking buildings and garages, workshops, cellars, pedestrian underpasses and underground rooms with low ceilings**. The structural design of the light fitting (IP69) allows even placement in food-processing industry - HACCP.

The light fitting resists dust, humidity and washing with spouting water up to 80°C. The body and the diffuser made of PC material have high mechanical resistance against impact and deformation.

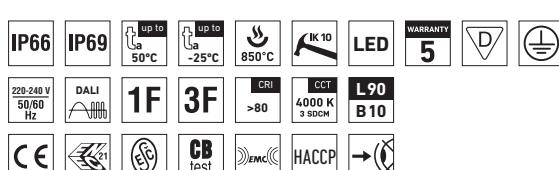
An external terminal strip makes it easy and quick to connect the supply cable with no need to open the **fitting (PLUG and PLAY system)**.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^\circ\text{C}$ to $t_a = 50^\circ\text{C}$
- Lifetime: 50 000 hours / L90B10
- High mechanical resistance IK10
- **Wide Beam (WB)**, ceiling height 2.5 to 5 m
- **Variable suspension pitch**; optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- **External terminal strip makes it easy to connect the supply cable – PLUG and PLAY system**
- Optional arrangement of light fittings in line without gaps

- **Fully automatic 100% control of functionality and tightness (leak test) during production**
- Easy cleaning and maintenance without need of replacing the light sources
- Eliminated risk of mechanical and electrostatic damage to LED chips
- Optional throughwiring (up to 5 wires inside the light fitting)
- Optional delivery in dimmable version
- Certificates: **ESČ, ENEC, CB, HACCP**



INNOVA WB PC



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **$t_a = 50^\circ\text{C}$**
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: 153 lm/W
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: transparent PC with Fresnel lenses, **Wide Beam** (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)
- Snap-in mounting clips: stainless steel
- Ventilation membrane in the base eliminating vacuum and condensate build-up

- 3 or 5-pole **external terminal strip**, conductor cross-sectional area: 1.5 or 2.5 mm²
- Fittings may be **lined with zero distance** between them
- Optional constant luminous flux (CLO) in DALI version
- Electric equipment: LED modules, fixed output driver or DALI driver
- The package includes: stainless hooks and stainless brackets
- The values stated for power consumption and luminous flux are in a tolerance of $\pm 7,5\%$

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|-----------|
| Up to ambient temperature $t_a = 50^\circ\text{C}$ - body: grey polycarbonate - diffuser with Fresnel lenses, WB (Wide Beam), transparent polycarbonate | | | | | | | | | |
| INNOVA 1.4ft WB PC 2600/840 | 50 | 2600 | 2260 | 16,1 | 140 | 22.8 / 19.0 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft WB PC 3200/840 | 50 | 3100 | 2700 | 19,1 | 141 | 23.4 / 19.7 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft WB PC 4400/840 | 45 | 4300 | 3740 | 26,0 | 144 | 24.5 / 20.8 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft WB PC 6400/840 | 45 | 6120 | 5320 | 36,1 | 147 | 25.8 / 22.0 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.5ft WB PC 3250/840 | 50 | 3240 | 2820 | 19,5 | 145 | 22.8 / 19.1 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft WB PC 4000/840 | 50 | 3850 | 3350 | 23,3 | 144 | 23.4 / 19.7 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft WB PC 5500/840 | 45 | 5340 | 4650 | 31,9 | 146 | 24.5 / 20.8 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft WB PC 8000/840 | 45 | 7780 | 6770 | 44,3 | 153 | 25.9 / 22.1 | 1,8 | 1450 | 700 - 980 |

INNOVA WB

| Type |
|--------------------------------|
| INNOVA 1.4ft WB PC 2600/840... |
| INNOVA 1.4ft WB PC 3200/840... |
| INNOVA 1.4ft WB PC 4400/840... |
| INNOVA 1.4ft WB PC 6400/840... |
| INNOVA 1.5ft WB PC 3250/840... |
| INNOVA 1.5ft WB PC 4000/840... |
| INNOVA 1.5ft WB PC 5500/840... |
| INNOVA 1.5ft WB PC 8000/840... |

Diffuser with Fresnel lenses, Wide Beam, transparent polycarbonate

| 1x3P | 1x5P | DALI 1x5P | 2x3P | 2x5P | DALI 2x5P |
|-------|-------|-----------|-------|-------|-----------|
| 72311 | 72312 | 72313 | 72315 | 72316 | 72317 |
| 72321 | 72322 | 72323 | 72325 | 72326 | 72327 |
| 72331 | 72332 | 72333 | 72335 | 72336 | 72337 |
| 72341 | 72342 | 72343 | 72345 | 72346 | 72347 |
| 72351 | 72352 | 72353 | 72355 | 72356 | 72357 |
| 72361 | 72362 | 72363 | 72365 | 72366 | 72367 |
| 72371 | 72372 | 72373 | 72375 | 72376 | 72377 |
| 72381 | 72382 | 72383 | 72385 | 72386 | 72387 |

Example of type marking: 72343 = INNOVA 1.4ft WB PC 6400/840 **DALI 1x5P**

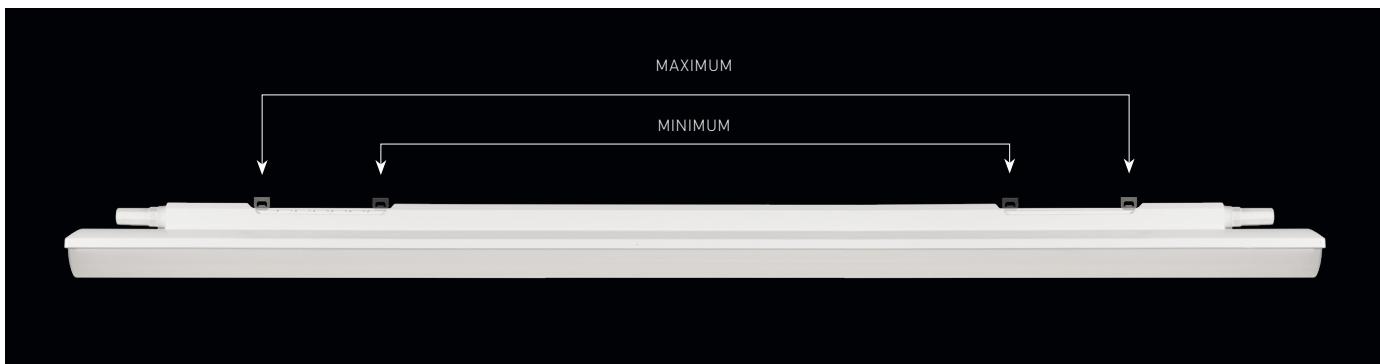
LEGEND

1x3P - a version featuring a non-dimmable ballast and a single 3-pole external terminal strip
1x5P - a version featuring a non-dimmable ballast and a single 5-pole external terminal strip
DALI 1x5P - a version featuring a digitally dimmable ballast and a single 5-pole external terminal strip

2x3P - a version featuring a non-dimmable ballast, two 3-pole external terminal strips and 3-wire connecting cables (1F), for continuous row installation
2x5P - a version featuring a non-dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (3F), for continuous row installation
DALI 2x5P - a version featuring a digitally dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (DALI 1F), for continuous row installation

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**VARIABLE INSTALLATION PITCH****LIGHT FITTING INTERCONNECTION**

An external terminal strip is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture (PLUG and PLAY system)

Interconnection of light fittings without spacing

**LIGHT FITTING DETAILED VIEW**

INNOVA WB



INNOVA ABS



... dustproof, waterproof and chemically resistant.

USE

Closed and non-dismountable light fitting according to the standard ČSN EN 60598-1 part 4 intended for chemically challenging or agricultural premises with incidence of vapours like ammonia, lye, alkaline compounds and hot water (hydrolysis). The light fitting is suitable particularly for **agricultural and industrial buildings like farms, stables, production and warehouse premises, car wash units and laboratories** without explosion hazard. The structural design of the light fitting (IP69) allows even placement in food-processing industry - HACCP.

The light fitting resists dust, humidity and washing with spouting water up to 80°C. The body and the diffuser made of ABS material have high chemical resistance.

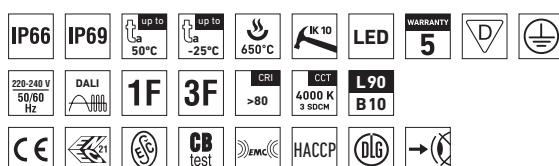
An external terminal strip makes it easy and quick to connect the supply cable with no need to open the **fitting (PLUG and PLAY system)**.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page č. 367.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^{\circ}\text{C}$ to $t_a = 50^{\circ}\text{C}$
- Lifetime: 50 000 hours / L90B10
- High chemical resistance
- **Variable suspension pitch:** optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- **External terminal strip makes it easy to connect the supply cable – PLUG and PLAY system**
- Optional arrangement of light fittings in line without gaps

- **Fully automatic 100% control of functionality and tightness (leak test) during production**
- Easy cleaning and maintenance without need of replacing the light sources
- Eliminated risk of mechanical and electrostatic damage to LED chips
- Optional throughwiring (up to 5 wires inside the light fitting)
- Optional delivery in dimmable version
- Certificates: **ESČ, ENEC, CB, DLG, HACCP**



INNOVA ABS



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **$t_a = 50^\circ\text{C}$**
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: 163 lm/W
- CRI > 80: 4000 K – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: translucent ABS (high chemical resistance, UV stability)
- Body: dark grey ABS (high chemical resistance, UV stability)
- Snap-in mounting clips: stainless steel
- Ventilation membrane in the base eliminating vacuum and condensate build-up

- 3 or 5-pole **external terminal strip**, conductor cross-sectional area: 1.5 or 2.5 mm²
- Fittings may be **lined with zero distance** between them
- Optional constant luminous flux (CLO) in DALI version
- Electric equipment: LED modules, fixed output driver or DALI driver
- The package includes: stainless hooks and stainless brackets
- The values stated for power consumption and luminous flux are in a tolerance of $\pm 7,5\%$

The technical drawing illustrates the physical dimensions of the INNOVA ABS 1.5ft model. The fixture is 118 mm long (A), 90 mm wide (D), and 32 mm high (height). The drawing shows two mounting points with a 'variable mounting pitch' indicated by a double-headed arrow. To the right, a circular polar plot shows the light distribution pattern, with concentric circles representing intensity levels and radial lines indicating angles from 0° to 180°.

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|-----------|
| Up to ambient temperature $t_a = 50^\circ\text{C}$ - body: dark grey ABS - diffuser: translucent ABS | | | | | | | | | |
| INNOVA 1.4ft ABS 2600/840 | 50 | 2600 | 2420 | 16,1 | 150 | 22.1 / 20.4 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft ABS 3200/840 | 50 | 3100 | 2880 | 19,1 | 151 | 22.7 / 21.0 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft ABS 4400/840 | 45 | 4300 | 4000 | 26,0 | 154 | 23.8 / 22.1 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft ABS 6400/840 | 45 | 6120 | 5690 | 36,1 | 158 | 25.0 / 23.4 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft ABS 8800/840 | 40 | 8690 | 8080 | 49,7 | 163 | 26.3 / 24.6 | 1,6 | 1170 | 420 - 700 |
| INNOVA 1.5ft ABS 3250/840 | 50 | 3240 | 3010 | 19,5 | 154 | 22.1 / 20.4 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft ABS 4000/840 | 50 | 3850 | 3580 | 23,3 | 154 | 22.7 / 21.1 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft ABS 5500/840 | 45 | 5340 | 4970 | 31,9 | 156 | 23.8 / 22.2 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft ABS 8000/840 | 45 | 7780 | 7240 | 44,3 | 163 | 25.1 / 23.5 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft ABS 11000/840 | 40 | 12310 | 11450 | 71,1 | 161 | 26.7 / 25.1 | 1,9 | 1450 | 700 - 980 |

INNOVA 1.4ft ABS 3200/840 = suitable replacement for tube light fitting PRIMA 136 ABS – 1 × 36 W
 INNOVA 1.4ft ABS 6400/840 = suitable replacement for tube light fitting PRIMA 236 ABS – 2 × 36 W
 INNOVA 1.5ft ABS 4000/840 = suitable replacement for tube light fitting PRIMA 158 ABS – 1 × 58 W
 INNOVA 1.5ft ABS 8000/840 = suitable replacement for tube light fitting PRIMA 258 ABS – 2 × 58 W

INNOVA ABS

Diffuser from translucent ABS

| Type | 1x3P | 1x5P | DALI 1x5P | 2x3P | 2x5P | DALI 2x5P |
|-------------------------------|-------|-------|-----------|-------|-------|-----------|
| INNOVA 1.4ft ABS 2600/840... | 72411 | 72412 | 72413 | 72415 | 72416 | 72417 |
| INNOVA 1.4ft ABS 3200/840... | 72421 | 72422 | 72423 | 72425 | 72426 | 72427 |
| INNOVA 1.4ft ABS 4400/840... | 72431 | 72432 | 72433 | 72435 | 72436 | 72437 |
| INNOVA 1.4ft ABS 6400/840... | 72441 | 72442 | 72443 | 72445 | 72446 | 72447 |
| INNOVA 1.4ft ABS 8800/840... | 72401 | 72402 | 72403 | 72405 | 72406 | 72407 |
| INNOVA 1.5ft ABS 3250/840... | 72451 | 72452 | 72453 | 72455 | 72456 | 72457 |
| INNOVA 1.5ft ABS 4000/840... | 72461 | 72462 | 72463 | 72465 | 72466 | 72467 |
| INNOVA 1.5ft ABS 5500/840... | 72471 | 72472 | 72473 | 72475 | 72476 | 72477 |
| INNOVA 1.5ft ABS 8000/840... | 72481 | 72482 | 72483 | 72485 | 72486 | 72487 |
| INNOVA 1.5ft ABS 11000/840... | 72491 | 72492 | 72493 | 72495 | 72496 | 72497 |

LEGEND

1x3P - a version featuring a non-dimmable ballast and a single 3-pole external terminal strip
1x5P - a version featuring a non-dimmable ballast and a single 5-pole external terminal strip
DALI 1x5P - a version featuring a digitally dimmable ballast and a single 5-pole external terminal strip

2x3P - a version featuring a non-dimmable ballast, two 3-pole external terminal strips and 3-wire connecting cables (1F), for continuous row installation
2x5P - a version featuring a non-dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (3F), for continuous row installation
DALI 2x5P - a version featuring a digitally dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (DALI 1F), for continuous row installation

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



VARIABLE INSTALLATION PITCH



LIGHT FITTING INTERCONNECTION

An external terminal strip is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture (PLUG and PLAY system)

Interconnection of light fittings without spacing



LIGHT FITTING DETAILED VIEW

INNOVA ABS



INNOVA NB ABS



... chemically resistant, for areas with high ceilings of 8 – 12 m.

USE

Closed and non-dismountable light fitting according to the standard ČSN EN 60598-1 part 4 intended for chemically challenging or agricultural premises with incidence of vapours like ammonia, lye, alkaline compounds and hot water (hydrolysis). Thanks to the **Narrow Beam** optics, it is suitable for inside spaces with high ceilings, intended for suspension height from 8 to 12 m, e.g. **inside walls and corridors of high agricultural and industrial buildings, rack aisles in production and storage spaces, farms, stables and laboratories** without explosion hazard. The structural design of the light fitting (IP69) allows even placement in food-processing industry - HACCP.

The light fitting resists dust, humidity and washing with spouting water up to 80 °C. The body and the diffuser made of ABS material have high chemical resistance.

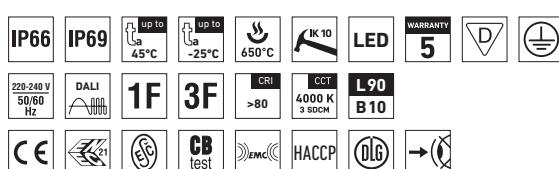
An external terminal strip makes it easy and quick to connect the supply cable with no need to open the **fitting (PLUG and PLAY system)**.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^\circ\text{C}$ to $t_a = 45^\circ\text{C}$
- Lifetime: 50 000 hours / L90B10
- High chemical resistance
- **Narrow Beam (NB)**, ceiling height 8 to 12 m
- **Variable suspension pitch**; optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- **External terminal strip makes it easy to connect the supply cable – PLUG and PLAY system**
- Optional arrangement of light fittings in line without gaps

- **Fully automatic 100% control of functionality and tightness (leak test) during production**
- Easy cleaning and maintenance without need of replacing the light sources
- Eliminated risk of mechanical and electrostatic damage to LED chips
- Optional throughwiring (up to 5 wires inside the light fitting)
- Optional delivery in dimmable version
- Certificates: **ESČ, ENEC, CB, DLG, HACCP**



INNOVA NB ABS



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **$t_a = 45^\circ\text{C}$**
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: 155 lm/W
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: transparent ABS with Fresnel lenses, **Narrow Beam** (high chemical resistance, UV stability)
- Body: dark grey ABS (high chemical resistance, UV stability)
- Snap-in mounting clips: stainless steel
- Ventilation membrane in the base eliminating vacuum and condensate build-up

- 3 or 5-pole **external terminal strip**, conductor cross-sectional area: 1.5 or 2.5 mm²
- Fittings may be **lined with zero distance** between them
- Optional constant luminous flux (CLO) in DALI version
- Electric equipment: LED modules, fixed output driver or DALI driver
- The package includes: stainless hooks and stainless brackets
- The values stated for power consumption and luminous flux are in a tolerance of $\pm 7,5\%$

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|-----------|
| Up to ambient temperature $t_a = 45^\circ\text{C}$ - body: dark grey ABS - diffuser with Fresnel lenses, NB (Narrow Beam), transparent ABS | | | | | | | | | |
| INNOVA 1.4ft NB ABS 4400/840 | 45 | 4300 | 3780 | 26,0 | 145 | 25,2 / 19,9 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft NB ABS 6400/840 | 45 | 6120 | 5390 | 36,1 | 149 | 26,4 / 21,1 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.5ft NB ABS 5500/840 | 45 | 5340 | 4700 | 31,9 | 147 | 25,2 / 19,9 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft NB ABS 8000/840 | 45 | 7780 | 6850 | 44,3 | 155 | 26,5 / 21,2 | 1,8 | 1450 | 700 - 980 |

INNOVA NB ABS

Diffuser with Fresnel lenses, Narrow Beam, transparent ABS

| Type | 1x3P | 1x5P | DALI 1x5P | 2x3P | 2x5P | DALI 2x5P |
|---------------------------------|-------|-------|-----------|-------|-------|-----------|
| INNOVA 1.4ft NB ABS 4400/840... | 72511 | 72512 | 72513 | 72515 | 72516 | 72517 |
| INNOVA 1.4ft NB ABS 6400/840... | 72521 | 72522 | 72523 | 72525 | 72526 | 72527 |
| INNOVA 1.5ft NB ABS 5500/840... | 72531 | 72532 | 72533 | 72535 | 72536 | 72537 |
| INNOVA 1.5ft NB ABS 8000/840... | 72541 | 72542 | 72543 | 72545 | 72546 | 72547 |

Example of type marking: 72523 = INNOVA 1.4ft NB ABS 6400/840 **DALI 1x5P**

LEGEND

- 1x3P** - a version featuring a non-dimmable ballast and a single 3-pole external terminal strip
- 1x5P** - a version featuring a non-dimmable ballast and a single 5-pole external terminal strip
- DALI 1x5P** - a version featuring a digitally dimmable ballast and a single 5-pole external terminal strip
- 2x3P** - a version featuring a non-dimmable ballast, two 3-pole external terminal strips and 3-wire connecting cables (1F), for continuous row installation
- 2x5P** - a version featuring a non-dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (3F), for continuous row installation
- DALI 2x5P** - a version featuring a digitally dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (DALI 1F), for continuous row installation

Light fitting attachment

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



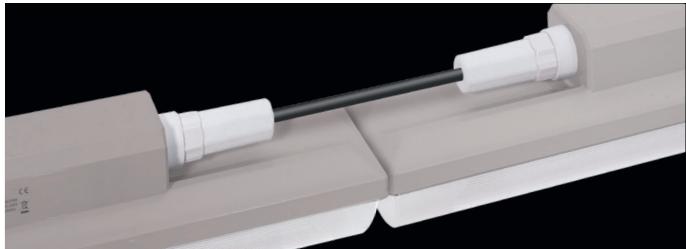
VARIABLE INSTALLATION PITCH



LIGHT FITTING INTERCONNECTION

An external terminal strip is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture (PLUG and PLAY system)

Interconnection of light fittings without spacing



LIGHT FITTING DETAILED VIEW

INNOVA NB ABS



INNOVA WB ABS



... chemically resistant, for areas with low ceilings of 2.5 – 5 m.

USE

Closed and non-dismountable light fitting according to the standard ČSN EN 60598-1 part 4 intended for chemically challenging or agricultural premises with incidence of vapours like ammonia, lye, alkaline compounds and hot water [hydrolysis]. Thanks to the **Wide Beam** optics it is suitable for inside spaces with low ceilings, intended for suspension height from 2.5 to 5 m, e.g. **inside walls and corridors of low agricultural and industrial buildings, workshops, corridors, cellars, farms, stables and laboratories** without explosion hazard. The structural design of the light fitting (IP69) allows even placement in food-processing industry - HACCP.

The light fitting resists dust, humidity and washing with spouting water up to 80°C. The body and the diffuser made of ABS material have high chemical resistance.

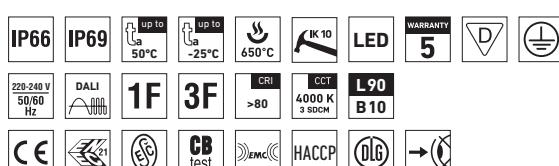
An external terminal strip makes it easy and quick to connect the supply cable with no need to open the **fitting (PLUG and PLAY system)**.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 367.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^\circ\text{C}$ to $t_a = 50^\circ\text{C}$
- Lifetime: 50 000 hours / L90B10
- High chemical resistance
- **Wide Beam (WB)**, ceiling height 2.5 to 5 m
- **Variable suspension pitch**; optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- **External terminal strip makes it easy to connect the supply cable – PLUG and PLAY system**
- Optional arrangement of light fittings in line without gaps

- **Fully automatic 100% control of functionality and tightness (leak test) during production**
- Easy cleaning and maintenance without need of replacing the light sources
- Eliminated risk of mechanical and electrostatic damage to LED chips
- Optional throughwiring (up to 5 wires inside the light fitting)
- Optional delivery in dimmable version
- Certificates: **ESČ, ENEC, CB, DLG, HACCP**



INNOVA WB ABS



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **$t_a = 50^\circ\text{C}$**
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: 155 lm/W
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: transparent ABS with Fresnel lenses, **Wide Beam** (high chemical resistance, UV stability)
- Body: dark grey ABS (high chemical resistance, UV stability)
- Snap-in mounting clips: stainless steel
- Ventilation membrane in the base eliminating vacuum and condensate build-up

- 3 or 5-pole **external terminal strip**, conductor cross-sectional area: 1.5 or 2.5 mm²
- Fittings may be **lined with zero distance** between them
- Optional constant luminous flux (CLO) in DALI version
- Electric equipment: LED modules, fixed output driver or DALI driver
- The package includes: stainless hooks and stainless brackets
- The values stated for power consumption and luminous flux are in a tolerance of $\pm 7.5\%$

The table provides detailed technical specifications for various models of the INNOVA WB ABS fixture. Key columns include Type, Max. ambient temperature [°C], Luminous flux of LED modules [lm], Luminous flux of light fitting [lm], Power consumption [W], System efficacy [lm/W], UGR Longitudinal/transverse, Net weight [kg], A [mm], and D [mm].

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|-----------|
| Up to ambient temperature $t_a = 50^\circ\text{C}$ - body: dark grey ABS - diffuser with Fresnel lenses, WB (Wide Beam), transparent ABS | | | | | | | | | |
| INNOVA 1.4ft WB ABS 2600/840 | 50 | 2600 | 2290 | 16,1 | 142 | 22.8 / 19.1 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft WB ABS 3200/840 | 50 | 3100 | 2730 | 19,1 | 143 | 23.4 / 19.7 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft WB ABS 4400/840 | 45 | 4300 | 3780 | 26,0 | 145 | 24.6 / 20.8 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft WB ABS 6400/840 | 45 | 6120 | 5390 | 36,1 | 149 | 25.8 / 22.1 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.5ft WB ABS 3250/840 | 50 | 3240 | 2850 | 19,5 | 146 | 22.8 / 19.1 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft WB ABS 4000/840 | 50 | 3850 | 3390 | 23,3 | 145 | 23.4 / 19.7 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft WB ABS 5500/840 | 45 | 5340 | 4700 | 31,9 | 147 | 24.6 / 20.9 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft WB ABS 8000/840 | 45 | 7780 | 6850 | 44,3 | 155 | 25.9 / 22.2 | 1,8 | 1450 | 700 - 980 |

INNOVA WB ABS

Diffuser with Fresnel lenses, Wide Beam, transparent ABS

| Type | 1x3P | 1x5P | DALI 1x5P | 2x3P | 2x5P | DALI 2x5P |
|---------------------------------|-------|-------|-----------|-------|-------|-----------|
| INNOVA 1.4ft WB ABS 2600/840... | 72611 | 72612 | 72613 | 72615 | 72616 | 72617 |
| INNOVA 1.4ft WB ABS 3200/840... | 72621 | 72622 | 72623 | 72625 | 72626 | 72627 |
| INNOVA 1.4ft WB ABS 4400/840... | 72631 | 72632 | 72633 | 72635 | 72636 | 72637 |
| INNOVA 1.4ft WB ABS 6400/840... | 72641 | 72642 | 72643 | 72645 | 72646 | 72647 |
| INNOVA 1.5ft WB ABS 3250/840... | 72651 | 72652 | 72653 | 72655 | 72656 | 72657 |
| INNOVA 1.5ft WB ABS 4000/840... | 72661 | 72662 | 72663 | 72665 | 72666 | 72667 |
| INNOVA 1.5ft WB ABS 5500/840... | 72671 | 72672 | 72673 | 72675 | 72676 | 72677 |
| INNOVA 1.5ft WB ABS 8000/840... | 72681 | 72682 | 72683 | 72685 | 72686 | 72687 |

Example of type marking: 72643 = INNOVA 1.4ft WB ABS 6400/840 **DALI 1x5P**

LEGEND

- 1x3P** - a version featuring a non-dimmable ballast and a single 3-pole external terminal strip
- 1x5P** - a version featuring a non-dimmable ballast and a single 5-pole external terminal strip
- DALI 1x5P** - a version featuring a digitally dimmable ballast and a single 5-pole external terminal strip
- 2x3P** - a version featuring a non-dimmable ballast, two 3-pole external terminal strips and 3-wire connecting cables (1F), for continuous row installation
- 2x5P** - a version featuring a non-dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (3F), for continuous row installation
- DALI 2x5P** - a version featuring a digitally dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (DALI 1F), for continuous row installation

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



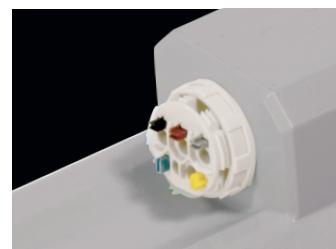
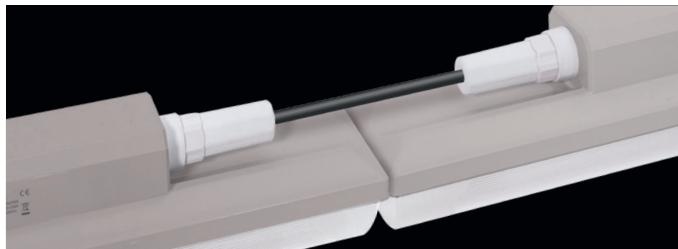
VARIABLE INSTALLATION PITCH



LIGHT FITTING INTERCONNECTION

An external terminal strip is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture (PLUG and PLAY system)

Interconnection of light fittings without spacing



LIGHT FITTING DETAILED VIEW

INNOVA WB ABS



INNOVA TRS



... for direct and indirect illumination.

USE

An enclosed, non-dismantable and **fully transparent** luminaire featuring a user non-replaceable light source in accordance with ČSN EN 60598-1[4]. The fixture is a perfect choice for inside as well as outside spaces (roof and unroofed) with luminaire installation height ranging from 2.5 m to 5 m such as: **production plants, (multistorey) car parks and garages, workshops, corridors, cellars, pedestrian underpasses and underground spaces with low ceilings**. The structural design of the light fitting (IP69) allows even placement in food-processing industry - HACCP.

The light fitting resists dust, humidity and washing with spouting water up to 80 °C. The body and the diffuser made of PC material have high mechanical resistance against impact and deformation.

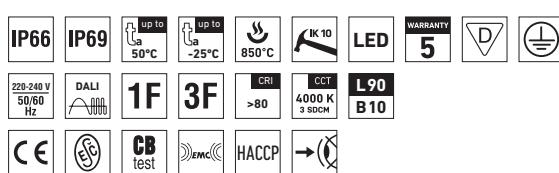
An external terminal strip makes it easy and quick to connect the supply cable with no need to open the **fitting (PLUG and PLAY system)**.

Emissions in the environment of use may reduce the usability of the plastics see page č. 367.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^\circ\text{C}$ to $t_a = 50^\circ\text{C}$
- Lifetime: 50 000 hours / L90B10
- High mechanical resistance IK10
- **For direct and indirect lighting**, ceiling height 2.5 to 5 m
- **Variable suspension pitch**; optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- **External terminal strip makes it easy to connect the supply cable – PLUG and PLAY system**
- Optional arrangement of light fittings in line without gaps

- **Fully automatic 100% control of functionality and tightness (leak test) during production**
- Easy cleaning and maintenance without need of replacing the light sources
- Eliminated risk of mechanical and electrostatic damage to LED chips
- Optional throughwiring (up to 5 wires inside the light fitting)
- Optional delivery in dimmable version
- Certificates: **ESČ, CB, HACCP**



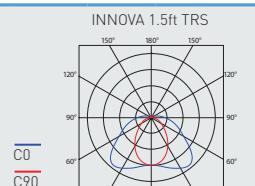
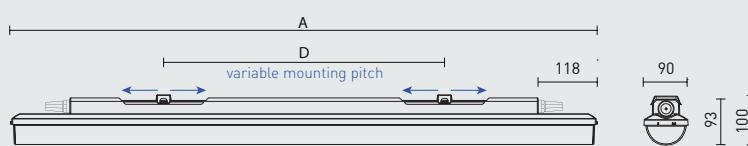
INNOVA TRS PC



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **$t_a = 50^\circ\text{C}$**
- Lifetime: 50 000 hours / L90B10
- Maximum light fitting efficiency: 153 lm/W
- **CRI > 80: 4000 K** – standard
- CRI > 80: 3000 K, 5000 K, 6500 K - on request
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K - on request
- MacAdam = 3 SDCM
- Diffuser: transparent PC (high mechanical resistance, UV stability)
- Body: transparent PC (high mechanical resistance, UV stability)
- Reflector: modified for **indirect illumination**
- Snap-in mounting clips: stainless steel
- Ventilation membrane in the base eliminating vacuum and condensate build-up

- 3 or 5-pole **external terminal strip**, conductor cross-sectional area: 1.5 or 2.5 mm²
- Fittings may be **lined with zero distance** between them
- Optional constant luminous flux (CLO) in DALI version
- Electric equipment: LED modules, fixed output driver or DALI driver
- The package includes: stainless hooks and stainless brackets, a connector's counterpart (if no cables are ordered)
- The values stated for power consumption and luminous flux are in a tolerance of $\pm 7,5\%$



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|-----------|
| Up to ambient temperature $t_a = 50^\circ\text{C}$ - body: transparent polycarbonate - diffuser: transparent polycarbonate | | | | | | | | | |
| INNOVA 1.4ft TRS PC 2600/840 | 50 | 2600 | 2260 | 16,1 | 140 | 22.9 / 18.6 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft TRS PC 3200/840 | 50 | 3100 | 2700 | 19,1 | 141 | 23.5 / 19.2 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft TRS PC 4400/840 | 45 | 4300 | 3740 | 26,0 | 144 | 24.6 / 20.3 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.4ft TRS PC 6400/840 | 45 | 6120 | 5320 | 36,1 | 147 | 25.8 / 21.6 | 1,5 | 1170 | 420 - 700 |
| INNOVA 1.5ft TRS PC 3250/840 | 50 | 3240 | 2820 | 19,5 | 145 | 22.9 / 18.6 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft TRS PC 4000/840 | 50 | 3850 | 3350 | 23,3 | 144 | 23.5 / 19.2 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft TRS PC 5500/840 | 45 | 5340 | 4650 | 31,9 | 146 | 24.6 / 20.4 | 1,8 | 1450 | 700 - 980 |
| INNOVA 1.5ft TRS PC 8000/840 | 45 | 7780 | 6770 | 44,3 | 153 | 25.9 / 21.7 | 1,8 | 1450 | 700 - 980 |

INNOVA TRS

Diffuser: transparent polycarbonate

| Type | 1x3P | 1x5P | DALI 1x5P | 2x3P | 2x5P | DALI 2x5P |
|---------------------------------|-------|-------|-----------|-------|-------|-----------|
| INNOVA 1.4ft TRS PC 2600/840... | 16280 | 16281 | 16203 | 16205 | 16206 | 16207 |
| INNOVA 1.4ft TRS PC 3200/840... | 16211 | 16212 | 16213 | 16215 | 16216 | 16217 |
| INNOVA 1.4ft TRS PC 4400/840... | 16221 | 16222 | 16223 | 16225 | 16226 | 16227 |
| INNOVA 1.4ft TRS PC 6400/840... | 16231 | 16232 | 16233 | 16235 | 16236 | 16237 |
| INNOVA 1.5ft TRS PC 3250/840... | 16241 | 16242 | 16243 | 16245 | 16246 | 16247 |
| INNOVA 1.5ft TRS PC 4000/840... | 16251 | 16252 | 16253 | 16255 | 16256 | 16257 |
| INNOVA 1.5ft TRS PC 5500/840... | 16261 | 16262 | 16263 | 16265 | 16266 | 16267 |
| INNOVA 1.5ft TRS PC 8000/840... | 16271 | 16272 | 16273 | 16275 | 16276 | 16277 |

Example of type marking: 16233 = INNOVA 1.4ft TRS PC 6400/840 **DALI 1x5P**

LEGEND

- | | |
|------------------|---|
| 1x3P | - a version featuring a non-dimmable ballast and a single 3-pole external terminal strip |
| 1x5P | - a version featuring a non-dimmable ballast and a single 5-pole external terminal strip |
| DALI 1x5P | - a version featuring a digitally dimmable ballast and a single 5-pole external terminal strip |
| 2x3P | - a version featuring a non-dimmable ballast, two 3-pole external terminal strips and 3-wire connecting cables (1F), for continuous row installation |
| 2x5P | - a version featuring a non-dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (3F), for continuous row installation |
| DALI 2x5P | - a version featuring a digitally dimmable ballast, two 5-pole external terminal strips and 5-wire connecting cables (DALI 1F), for continuous row installation |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

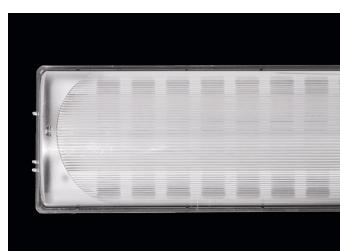
**VARIABLE INSTALLATION PITCH****LIGHT FITTING INTERCONNECTION**

An external terminal strip is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture (PLUG and PLAY system)

Interconnection of light fittings without spacing

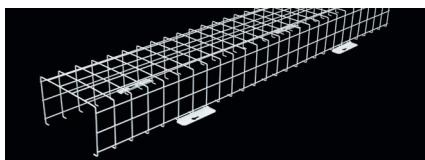
**LIGHT FITTING DETAILED VIEW**

INNOVA TRS



OM – protective grid

The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws. The surface is treated with the RAL 9003 powder-coated colour.



| Code | Type | Description | Weight [kg] |
|-------|--------|---|-------------|
| 11942 | OM 236 | protective grid for Types 236, 228/254, x.4ft [1300 x 220 x 130 mm] | 1,7 |
| 11943 | OM 258 | protective grid for Types 258, 235/249/280, x.5ft [1600 x 220 x 130 mm] | 2,0 |

BZ – side hanger

It serves to attach the light fitting to the wall with the possibility of its positioning.



| Code | Type | Description | Weight [kg] |
|-------|------|---|-------------|
| 90002 | BZ | side hanger with blocking (set for 1 light fitting) | 0,4 |

Canalis busbar system connector

The connector enables a quick 1 phase or 3 phase interconnection of light fittings without their opening.



| Code | Type | Description | Weight [kg] |
|-------|--------------|--|-------------|
| 79001 | KBA 40 ZU | light fitting suspension holder - Canalis KBA system | 0,1 |
| 72971 | KBC 10 CC212 | three-pole connector with 1 m cable - Canalis KBA system | 0,2 |
| 72972 | KBC 10 CC213 | five-pole connector with 1 m cable - Canalis KBA system | 0,3 |

Locking set for bracket G3



| Code | Type | Description | Weight [kg] |
|-------|--------|---|-------------|
| 11553 | G3 SET | a locking set for G3 stainless steel bracket (bolts, nuts, washers) | 0,2 |

FUTURA



INDUSTRIAL
PLASTIC
DUSTPROOF
WATERPROOF
IMPACT-RESISTANT



FUTURA – industrial plastic LED light fitting

| | | | |
|--|---|---|---|
| FUTURA page 132 |  |  |  |
| IP66 | FUTURA PC Al, PCc Al page 132 | FUTURA ES PC Al, PCc Al page 136 | FUTURA HE PC Al, PCc Al page 140 |
| FUTURA FOR OUTDOOR SPACES page 143 |  | | |
| IP66 | FUTURA VP PC Al, VP PCc Al page 143 | | |
| FUTURA FOR HIGH CEILINGS page 147 |  | | |
| IP66 | FUTURA NB PC Al, PCc Al page 147 | | |
| FUTURA - CHEMICALLY RESISTANT VERSION page 150 |  |  |  |
| IP66 | FUTURA ABS Al, ABSc Al page 150 | FUTURA ES ABS Al, ABSc Al page 154 | FUTURA HE ABS Al, ABSc Al page 157 |
| FUTURA CLASS II INSULATION S. 160 |  | | |
| IP66 | FUTURA CLASS II S. 160 | | |
| FUTURA FOR EXTREME TEMPERATURES page 164 |  | | |
| IP66 | FUTURA MAX PCc Al page 164 | | |
| FUTURA WITH MOTION DETECTOR page 167 |  | | |
| IP66 | FUTURA SNS PC Al, PCc Al page 167 | | |
| FUTURA ACCESSORIES page 170 |  | | |
| | FUTURA ACCESSORIES page 170 | | |



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FUTURA



... dustproof, waterproof and impact-resistant.

USE

The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

(It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 367).

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate with Al coolers (PC Al) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime [CLO]
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80: 4000 K

- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- Certification: EPD, ENEC, CB, HACCP

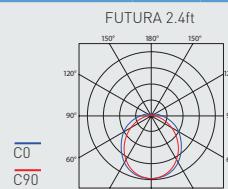
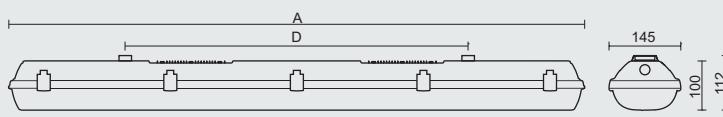


FUTURA PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$
- Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 165 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate with Al coolers (PC Al), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 50^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate | | | | | | | | | |
| FUTURA 2.2ft PC Al 2600/840 | 50 | 2600 | 2440 | 16,1 | 152 | 23.1 / 21.1 | 1,45 | 612 | 475 |
| FUTURA 2.2ft PC Al 3200/840 | 50 | 3100 | 2910 | 19,1 | 152 | 23.8 / 21.8 | 1,45 | 612 | 475 |
| FUTURA 2.2ft PC Al 4400/840 | 45 | 4300 | 4040 | 26,0 | 155 | 24.8 / 23.0 | 1,45 | 612 | 475 |
| FUTURA 2.4ft PC Al 5200/840 | 50 | 5230 | 4920 | 30,3 | 162 | 23.3 / 21.6 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft PC Al 6400/840 | 50 | 6240 | 5870 | 36,3 | 162 | 24.0 / 22.2 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft PC Al 8800/840 | 45 | 8690 | 8170 | 49,7 | 164 | 25.1 / 23.4 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft PC Al 12800/840 | 35 | 13920 | 13080 | 82,5 | 159 | 26.7 / 24.9 | 2,65 | 1172 | 700 |
| FUTURA 2.5ft PC Al 6500/840 | 50 | 6500 | 6110 | 37,1 | 165 | 23.3 / 21.6 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft PC Al 8000/840 | 50 | 7770 | 7300 | 44,4 | 164 | 24.0 / 22.2 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft PC Al 11000/840 | 45 | 12310 | 11570 | 71,1 | 163 | 25.6 / 23.9 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft PC Al 16000/840 | 35 | 17440 | 16390 | 102,2 | 160 | 26.7 / 25.0 | 3,25 | 1452 | 940 |

75020 FUTURA 2.2ft PC Al 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 - 2x18W

75050 FUTURA 2.4ft PC Al 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2x36W

75080 FUTURA 2.5ft PC Al 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2x58W

FUTURA PC Al

| Code | Type |
|-------|------------------------------|
| 75010 | FUTURA 2.2ft PC Al 2600/840 |
| 75020 | FUTURA 2.2ft PC Al 3200/840 |
| 75030 | FUTURA 2.2ft PC Al 4400/840 |
| 75040 | FUTURA 2.4ft PC Al 5200/840 |
| 75050 | FUTURA 2.4ft PC Al 6400/840 |
| 75060 | FUTURA 2.4ft PC Al 8800/840 |
| 75410 | FUTURA 2.4ft PC Al 12800/840 |
| 75070 | FUTURA 2.5ft PC Al 6500/840 |
| 75080 | FUTURA 2.5ft PC Al 8000/840 |
| 75090 | FUTURA 2.5ft PC Al 11000/840 |
| 75420 | FUTURA 2.5ft PC Al 16000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | 75014 | 75015 | x | x |
| x | x | 75024 | 75025 | x | x |
| x | x | 75034 | 75035 | x | x |
| 75140 | 75340 | 75044 | 75045 | 75344 | 75345 |
| 75150 | 75350 | 75054 | 75055 | 75354 | 75355 |
| 75160 | 75360 | 75064 | 75065 | 75364 | 75365 |
| 75411 | 75412 | x | x | x | x |
| 75170 | 75370 | 75074 | 75075 | 75374 | 75375 |
| 75180 | 75380 | 75084 | 75085 | 75384 | 75385 |
| 75190 | 75390 | 75094 | 75095 | 75394 | 75395 |
| 75421 | 75422 | x | x | x | x |

FUTURA PCc Al

| Code | Type |
|-------|-------------------------------|
| 75210 | FUTURA 2.2ft PCc Al 2600/840 |
| 75220 | FUTURA 2.2ft PCc Al 3200/840 |
| 75230 | FUTURA 2.2ft PCc Al 4400/840 |
| 75240 | FUTURA 2.4ft PCc Al 5200/840 |
| 75250 | FUTURA 2.4ft PCc Al 6400/840 |
| 75260 | FUTURA 2.4ft PCc Al 8800/840 |
| 75430 | FUTURA 2.4ft PCc Al 12800/840 |
| 75270 | FUTURA 2.5ft PCc Al 6500/840 |
| 75280 | FUTURA 2.5ft PCc Al 8000/840 |
| 75290 | FUTURA 2.5ft PCc Al 11000/840 |
| 75440 | FUTURA 2.5ft PCc Al 16000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | 75214 | 75215 | x | x |
| x | x | 75224 | 75225 | x | x |
| x | x | 75234 | 75235 | x | x |
| 75540 | 75640 | 75244 | 75245 | 75644 | 75645 |
| 75550 | 75650 | 75254 | 75255 | 75654 | 75655 |
| 75560 | 75660 | 75264 | 75265 | 75664 | 75665 |
| 75431 | 75432 | x | x | x | x |
| 75570 | 75670 | 75274 | 75275 | 75674 | 75675 |
| 75580 | 75680 | 75284 | 75285 | 75684 | 75685 |
| 75590 | 75690 | 75294 | 75295 | 75694 | 75695 |
| 75441 | 75442 | x | x | x | x |

Example of type marking: 75665 = FUTURA 2.4ft PCc Al 8800/840 3F M3h

FUTURA PC AI DALI

| Code | Type |
|-------------|-----------------------------------|
| 75013 | FUTURA 2.2ft PC AI 2600/840 DALI |
| 75023 | FUTURA 2.2ft PC AI 3200/840 DALI |
| 75033 | FUTURA 2.2ft PC AI 4400/840 DALI |
| 75043 | FUTURA 2.4ft PC AI 5200/840 DALI |
| 75053 | FUTURA 2.4ft PC AI 6400/840 DALI |
| 75063 | FUTURA 2.4ft PC AI 8800/840 DALI |
| 75450 | FUTURA 2.4ft PC AI 12800/840 DALI |
| 75073 | FUTURA 2.5ft PC AI 6500/840 DALI |
| 75083 | FUTURA 2.5ft PC AI 8000/840 DALI |
| 75093 | FUTURA 2.5ft PC AI 11000/840 DALI |
| 75460 | FUTURA 2.5ft PC AI 16000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| x | x | 75017 | 75019 | x | x |
| x | x | 75027 | 75029 | x | x |
| x | x | 75037 | 75039 | x | x |
| 75143 | 75343 | 75047 | 75049 | 75347 | 75349 |
| 75153 | 75353 | 75057 | 75059 | 75357 | 75359 |
| 75163 | 75363 | 75067 | 75069 | 75367 | 75369 |
| 75451 | 75452 | x | x | x | x |
| 75173 | 75373 | 75077 | 75079 | 75377 | 75379 |
| 75183 | 75383 | 75087 | 75089 | 75387 | 75389 |
| 75193 | 75393 | 75097 | 75099 | 75397 | 75399 |
| 75461 | 75462 | x | x | x | x |

FUTURA PCc AI DALI

| Code | Type |
|-------------|------------------------------------|
| 75213 | FUTURA 2.2ft PCc AI 2600/840 DALI |
| 75223 | FUTURA 2.2ft PCc AI 3200/840 DALI |
| 75233 | FUTURA 2.2ft PCc AI 4400/840 DALI |
| 75243 | FUTURA 2.4ft PCc AI 5200/840 DALI |
| 75253 | FUTURA 2.4ft PCc AI 6400/840 DALI |
| 75263 | FUTURA 2.4ft PCc AI 8800/840 DALI |
| 75470 | FUTURA 2.4ft PCc AI 12800/840 DALI |
| 75273 | FUTURA 2.5ft PCc AI 6500/840 DALI |
| 75283 | FUTURA 2.5ft PCc AI 8000/840 DALI |
| 75293 | FUTURA 2.5ft PCc AI 11000/840 DALI |
| 75480 | FUTURA 2.5ft PCc AI 16000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| x | x | 75217 | 75219 | x | x |
| x | x | 75227 | 75229 | x | x |
| x | x | 75237 | 75239 | x | x |
| 75543 | 75643 | 75247 | 75249 | 75647 | 75649 |
| 75553 | 75653 | 75257 | 75259 | 75657 | 75659 |
| 75563 | 75663 | 75267 | 75269 | 75667 | 75669 |
| 75471 | 75472 | x | x | x | x |
| 75573 | 75673 | 75277 | 75279 | 75677 | 75679 |
| 75583 | 75683 | 75287 | 75289 | 75687 | 75689 |
| 75593 | 75693 | 75297 | 75299 | 75697 | 75699 |
| 75481 | 75482 | x | x | x | x |

Example of type marking: 75687 = FUTURA 2.5ft PCc AI 8000/840 DALI **3F M1h****LEGEND**

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**LIGHT FITTING DETAILED VIEW**

FUTURA



FUTURA ES



... Energy Saver.

USE

The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

(It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 367).

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate with Al coolers (PC Al) = high mechanical resistance
- Up to 50 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C

- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- Certification: EPD, ENEC, CB, HACCP

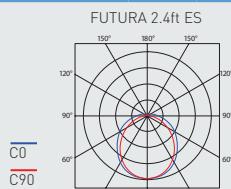
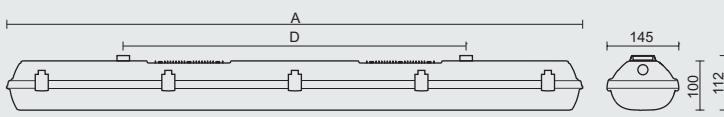


FUTURA ES PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$
Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$
(version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 172 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate with Al coolers (PC Al), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 50^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate | | | | | | | | | |
| FUTURA 2.2ft ES PC Al 2600/840 | 50 | 2690 | 2530 | 15,3 | 165 | 23,2 / 21,3 | 1,45 | 612 | 475 |
| FUTURA 2.2ft ES PC Al 3200/840 | 50 | 3190 | 3000 | 18,2 | 165 | 23,9 / 21,9 | 1,45 | 612 | 475 |
| FUTURA 2.2ft ES PC Al 4400/840 | 45 | 4380 | 4120 | 24,6 | 167 | 24,9 / 23,1 | 1,45 | 612 | 475 |
| FUTURA 2.4ft ES PC Al 5200/840 | 50 | 5300 | 4980 | 28,9 | 172 | 23,4 / 21,7 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft ES PC Al 6400/840 | 50 | 6410 | 6030 | 35,2 | 171 | 24,1 / 22,3 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft ES PC Al 8800/840 | 45 | 9110 | 8560 | 50,4 | 170 | 25,3 / 23,5 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft ES PC Al 12800/840 | 35 | 14490 | 13620 | 80,1 | 170 | 26,8 / 25,1 | 2,65 | 1172 | 700 |
| FUTURA 2.5ft ES PC Al 6500/840 | 50 | 6920 | 6500 | 37,7 | 172 | 23,5 / 21,8 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft ES PC Al 8000/840 | 50 | 8150 | 7660 | 45,1 | 170 | 24,1 / 22,4 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft ES PC Al 11000/840 | 45 | 12560 | 11810 | 68,9 | 171 | 25,7 / 24,0 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft ES PC Al 16000/840 | 35 | 17980 | 16900 | 99,3 | 170 | 26,8 / 25,1 | 3,25 | 1452 | 940 |

10020 FUTURA 2.2ft ES PC Al 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 - 2 × 18W

10050 FUTURA 2.4ft ES PC Al 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2 × 36W

10090 FUTURA 2.5ft ES PC Al 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2 × 58W

FUTURA ES PC Al

Non-dimmable driver - plastic clips

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|---------------------------------|-------|-------|-------|-------|--------|--------|
| 10010 | FUTURA 2.2ft ES PC Al 2600/840 | x | x | 10014 | 10015 | x | x |
| 10020 | FUTURA 2.2ft ES PC Al 3200/840 | x | x | 10024 | 10025 | x | x |
| 10030 | FUTURA 2.2ft ES PC Al 4400/840 | x | x | 10034 | 10035 | x | x |
| 10040 | FUTURA 2.4ft ES PC Al 5200/840 | 10041 | 10043 | 10044 | 10045 | 10046 | 10047 |
| 10050 | FUTURA 2.4ft ES PC Al 6400/840 | 10051 | 10053 | 10054 | 10055 | 10056 | 10057 |
| 10060 | FUTURA 2.4ft ES PC Al 8800/840 | 10061 | 10063 | 10064 | 10065 | 10066 | 10067 |
| 10070 | FUTURA 2.4ft ES PC Al 12800/840 | 10071 | 10073 | x | x | x | x |
| 10080 | FUTURA 2.5ft ES PC Al 6500/840 | 10081 | 10083 | 10084 | 10085 | 10086 | 10087 |
| 10090 | FUTURA 2.5ft ES PC Al 8000/840 | 10091 | 10093 | 10094 | 10095 | 10096 | 10097 |
| 10100 | FUTURA 2.5ft ES PC Al 11000/840 | 10101 | 10103 | 10104 | 10105 | 10106 | 10107 |
| 10110 | FUTURA 2.5ft ES PC Al 16000/840 | 10111 | 10113 | x | x | x | x |

FUTURA ES PCc Al

Non-dimmable driver - stainless clips (c)

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|----------------------------------|-------|-------|-------|-------|--------|--------|
| 10120 | FUTURA 2.2ft ES PCc Al 2600/840 | x | x | 10124 | 10125 | x | x |
| 10130 | FUTURA 2.2ft ES PCc Al 3200/840 | x | x | 10134 | 10135 | x | x |
| 10140 | FUTURA 2.2ft ES PCc Al 4400/840 | x | x | 10144 | 10145 | x | x |
| 10150 | FUTURA 2.4ft ES PCc Al 5200/840 | 10151 | 10153 | 10154 | 10155 | 10156 | 10157 |
| 10160 | FUTURA 2.4ft ES PCc Al 6400/840 | 10161 | 10163 | 10164 | 10165 | 10166 | 10167 |
| 10170 | FUTURA 2.4ft ES PCc Al 8800/840 | 10171 | 10173 | 10174 | 10175 | 10176 | 10177 |
| 10180 | FUTURA 2.4ft ES PCc Al 12800/840 | 10181 | 10183 | x | x | x | x |
| 10190 | FUTURA 2.5ft ES PCc Al 6500/840 | 10191 | 10193 | 10194 | 10195 | 10196 | 10197 |
| 10200 | FUTURA 2.5ft ES PCc Al 8000/840 | 10201 | 10203 | 10204 | 10205 | 10206 | 10207 |
| 10210 | FUTURA 2.5ft ES PCc Al 11000/840 | 10211 | 10213 | 10214 | 10215 | 10216 | 10217 |
| 10220 | FUTURA 2.5ft ES PCc Al 16000/840 | 10221 | 10223 | x | x | x | x |

Example of type marking: 10177 = FUTURA 2.4ft ES PCc Al 8800/840 3F M3h

FUTURA ES PC AI DALI

| Code | Type |
|-------|--------------------------------------|
| 10230 | FUTURA 2.2ft ES PC AI 2600/840 DALI |
| 10240 | FUTURA 2.2ft ES PC AI 3200/840 DALI |
| 10250 | FUTURA 2.2ft ES PC AI 4400/840 DALI |
| 10260 | FUTURA 2.4ft ES PC AI 5200/840 DALI |
| 10270 | FUTURA 2.4ft ES PC AI 6400/840 DALI |
| 10280 | FUTURA 2.4ft ES PC AI 8800/840 DALI |
| 10290 | FUTURA 2.4ft ES PC AI 12800/840 DALI |
| 10300 | FUTURA 2.5ft ES PC AI 6500/840 DALI |
| 10310 | FUTURA 2.5ft ES PC AI 8000/840 DALI |
| 10320 | FUTURA 2.5ft ES PC AI 11000/840 DALI |
| 10330 | FUTURA 2.5ft ES PC AI 16000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | 10234 | 10235 | x | x |
| x | x | 10244 | 10245 | x | x |
| x | x | 10254 | 10255 | x | x |
| 10261 | 10263 | 10264 | 10265 | 10266 | 10267 |
| 10271 | 10273 | 10274 | 10275 | 10276 | 10277 |
| 10281 | 10283 | 10284 | 10285 | 10286 | 10287 |
| 10291 | 10293 | x | x | x | x |
| 10301 | 10303 | 10304 | 10305 | 10306 | 10307 |
| 10311 | 10313 | 10314 | 10315 | 10316 | 10317 |
| 10321 | 10323 | 10324 | 10325 | 10326 | 10327 |
| 10331 | 10333 | x | x | x | x |

FUTURA ES PCc AI DALI

| Code | Type |
|-------|---------------------------------------|
| 10340 | FUTURA 2.2ft ES PCc AI 2600/840 DALI |
| 10350 | FUTURA 2.2ft ES PCc AI 3200/840 DALI |
| 10360 | FUTURA 2.2ft ES PCc AI 4400/840 DALI |
| 10370 | FUTURA 2.4ft ES PCc AI 5200/840 DALI |
| 10380 | FUTURA 2.4ft ES PCc AI 6400/840 DALI |
| 10390 | FUTURA 2.4ft ES PCc AI 8800/840 DALI |
| 10400 | FUTURA 2.4ft ES PCc AI 12800/840 DALI |
| 10410 | FUTURA 2.5ft ES PCc AI 6500/840 DALI |
| 10420 | FUTURA 2.5ft ES PCc AI 8000/840 DALI |
| 10430 | FUTURA 2.5ft ES PCc AI 11000/840 DALI |
| 10440 | FUTURA 2.5ft ES PCc AI 16000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | 10344 | 10345 | x | x |
| x | x | 10354 | 10355 | x | x |
| x | x | 10364 | 10365 | x | x |
| 10371 | 10373 | 10374 | 10375 | 10376 | 10377 |
| 10381 | 10383 | 10384 | 10385 | 10386 | 10387 |
| 10391 | 10393 | 10394 | 10395 | 10396 | 10397 |
| 10401 | 10403 | x | x | x | x |
| 10411 | 10413 | 10414 | 10415 | 10416 | 10417 |
| 10421 | 10423 | 10424 | 10425 | 10426 | 10427 |
| 10431 | 10433 | 10434 | 10435 | 10436 | 10437 |
| 10441 | 10443 | x | x | x | x |

Example of type marking: 10426 = FUTURA 2.5ft ES PCc AI 8000/840 DALI **3F M1h**

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**LIGHT FITTING DETAILED VIEW**

FUTURA ES



FUTURA HE



... high efficiency, with sulphur-resistant LED chips.

USE

The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

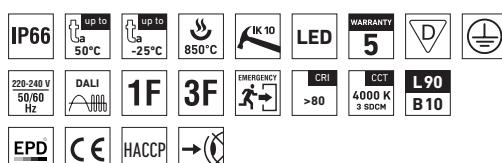
The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

(It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 367).

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate with Al coolers (PC Al) = high mechanical resistance
- Up to 55 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C

- Standard model - CRI > 80: 4000 K
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- **Chips with high sulphur resistance**
- Long lifetime due to low thermal resistance

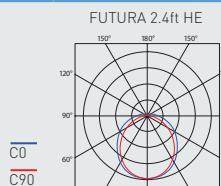
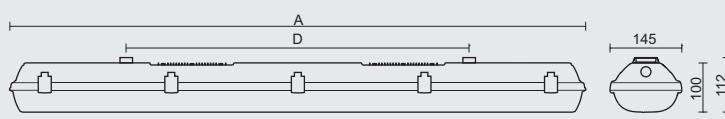


FUTURA HE PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 180 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate with Al coolers (PC Al), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED sulphur-resistant modules, current driver or current driver DALI



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 50^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate | | | | | | | | | |
| FUTURA 2.2ft HE PC Al 3200/840 | 50 | 3335 | 3130 | 18,6 | 168 | 24.1 / 22.0 | 1,45 | 612 | 475 |
| FUTURA 2.2ft HE PC Al 4400/840 | 45 | 4520 | 4250 | 25,2 | 169 | 25.0 / 23.2 | 1,45 | 612 | 475 |
| FUTURA 2.2ft HE PC Al 6400/840 | 35 | 6650 | 6250 | 35,9 | 174 | 26.5 / 24.4 | 1,45 | 612 | 475 |
| FUTURA 2.4ft HE PC Al 6400/840 | 50 | 6690 | 6290 | 36,0 | 175 | 24.3 / 22.4 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft HE PC Al 8800/840 | 45 | 9140 | 8590 | 48,6 | 177 | 25.3 / 23.5 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft HE PC Al 12800/840 | 35 | 15610 | 14670 | 81,7 | 180 | 27.2 / 25.4 | 2,65 | 1172 | 700 |
| FUTURA 2.5ft HE PC Al 8000/840 | 50 | 8330 | 7830 | 44,1 | 178 | 24.2 / 22.5 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft HE PC Al 11000/840 | 45 | 13200 | 12410 | 69,8 | 178 | 25.8 / 24.1 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft HE PC Al 16000/840 | 35 | 19400 | 18240 | 101,2 | 180 | 27.2 / 25.4 | 3,25 | 1452 | 940 |
| FUTURA 2.5ft HE PC Al 22000/840 | 35 | 23220 | 21830 | 127,2 | 172 | 27.8 / 26.1 | 3,25 | 1452 | 940 |

FUTURA HE PC Al

| Code | Type |
|--------|---------------------------------|
| 11000 | FUTURA 2.2ft HE PC Al 3200/840 |
| 11010 | FUTURA 2.2ft HE PC Al 4400/840 |
| 11003 | FUTURA 2.2ft HE PC Al 6400/840 |
| 11006 | FUTURA 2.4ft HE PC Al 6400/840 |
| 11020 | FUTURA 2.4ft HE PC Al 8800/840 |
| 11016 | FUTURA 2.4ft HE PC Al 12800/840 |
| 11019 | FUTURA 2.5ft HE PC Al 8000/840 |
| 11030 | FUTURA 2.5ft HE PC Al 11000/840 |
| 11041 | FUTURA 2.5ft HE PC Al 16000/840 |
| 103406 | FUTURA 2.5ft HE PC Al 22000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|-------|-------|--------|--------|
| x | x | 11001 | 11002 | x | x |
| x | x | 11014 | 11015 | x | x |
| x | x | 11004 | 11005 | x | x |
| 11007 | 11008 | 11009 | 11011 | 11012 | 11013 |
| 11021 | 11023 | 11024 | 11025 | 11026 | 11027 |
| 11017 | 11018 | x | x | x | x |
| 11022 | 11028 | 11029 | 11032 | 11038 | 11039 |
| 11031 | 11033 | 11034 | 11035 | 11036 | 11037 |
| 11042 | 11043 | x | x | x | x |
| 103407 | 103408 | x | x | x | x |

FUTURA HE PCc Al

| Code | Type |
|--------|----------------------------------|
| 11046 | FUTURA 2.2ft HE PCc Al 3200/840 |
| 11040 | FUTURA 2.2ft HE PCc Al 4400/840 |
| 11049 | FUTURA 2.2ft HE PCc Al 6400/840 |
| 11059 | FUTURA 2.4ft HE PCc Al 6400/840 |
| 11050 | FUTURA 2.4ft HE PCc Al 8800/840 |
| 11076 | FUTURA 2.4ft HE PCc Al 12800/840 |
| 11079 | FUTURA 2.5ft HE PCc Al 8000/840 |
| 11060 | FUTURA 2.5ft HE PCc Al 11000/840 |
| 11101 | FUTURA 2.5ft HE PCc Al 16000/840 |
| 103412 | FUTURA 2.5ft HE PCc Al 22000/840 |

Non-dimmable driver - stainless clips [c]

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|-------|-------|--------|--------|
| x | x | 11047 | 11048 | x | x |
| x | x | 11044 | 11045 | x | x |
| x | x | 11052 | 11058 | x | x |
| 11062 | 11068 | 11069 | 11071 | 11072 | 11073 |
| 11051 | 11053 | 11054 | 11055 | 11056 | 11057 |
| 11077 | 11078 | x | x | x | x |
| 11082 | 11088 | 11089 | 11092 | 11098 | 11099 |
| 11061 | 11063 | 11064 | 11065 | 11066 | 11067 |
| 11102 | 11103 | x | x | x | x |
| 103413 | 103414 | x | x | x | x |

FUTURA HE PC AL DALI

| Code | Type |
|-------------|--------------------------------------|
| 11106 | FUTURA 2.2ft HE PC AL 3200/840 DALI |
| 11070 | FUTURA 2.2ft HE PC AL 4400/840 DALI |
| 11109 | FUTURA 2.2ft HE PC AL 6400/840 DALI |
| 11119 | FUTURA 2.4ft HE PC AL 8800/840 DALI |
| 11080 | FUTURA 2.4ft HE PC AL 18000/840 DALI |
| 11133 | FUTURA 2.4ft HE PC AL 12800/840 DALI |
| 11136 | FUTURA 2.5ft HE PC AL 8000/840 DALI |
| 11090 | FUTURA 2.5ft HE PC AL 11000/840 DALI |
| 11143 | FUTURA 2.5ft HE PC AL 16000/840 DALI |
| 103411 | FUTURA 2.5ft HE PC AL 22000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| x | x | 11107 | 11108 | x | x |
| x | x | 11074 | 11075 | x | x |
| x | x | 11112 | 11118 | x | x |
| 11122 | 11128 | 11129 | 11130 | 11131 | 11132 |
| 11081 | 11083 | 11084 | 11085 | 11086 | 11087 |
| 11134 | 11135 | x | x | x | x |
| 11137 | 11138 | 11139 | 11140 | 11141 | 11142 |
| 11091 | 11093 | 11094 | 11095 | 11096 | 11097 |
| 11144 | 11145 | x | x | x | x |
| 103409 | 103410 | x | x | x | x |

FUTURA HE PCc AL DALI

| Code | Type |
|-------------|---------------------------------------|
| 11146 | FUTURA 2.2ft HE PCc AL 3200/840 DALI |
| 11100 | FUTURA 2.2ft HE PCc AL 4400/840 DALI |
| 11149 | FUTURA 2.2ft HE PCc AL 6400/840 DALI |
| 11152 | FUTURA 2.4ft HE PCc AL 6400/840 DALI |
| 11110 | FUTURA 2.4ft HE PCc AL 8800/840 DALI |
| 11159 | FUTURA 2.4ft HE PCc AL 12800/840 DALI |
| 11162 | FUTURA 2.5ft HE PCc AL 8000/840 DALI |
| 11120 | FUTURA 2.5ft HE PCc AL 11000/840 DALI |
| 11169 | FUTURA 2.5ft HE PCc AL 16000/840 DALI |
| 103415 | FUTURA 2.5ft HE PCc AL 22000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| x | x | 11147 | 11148 | x | x |
| x | x | 11104 | 11105 | x | x |
| x | x | 11150 | 11151 | x | x |
| 11153 | 11154 | 11155 | 11156 | 11157 | 11158 |
| 11111 | 11113 | 11114 | 11115 | 11116 | 11117 |
| 11160 | 11161 | x | x | x | x |
| 11163 | 11164 | 11165 | 11166 | 11167 | 11168 |
| 11121 | 11123 | 11124 | 11125 | 11126 | 11127 |
| 11170 | 11171 | x | x | x | x |
| 103416 | 103417 | x | x | x | x |

Example of type marking: 11116 = FUTURA 2.4ft HE PCc AL 8800/840 DALI **3F M1h****LEGEND**

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
b) Suspension with the use of stainless hooks
c) Attachment with the use of side hangers to the wall - is not included in accessories

**LIGHT FITTING DETAILED VIEW****FUTURA HE**

FUTURA VP



... for outdoor spaces.

USE

The light fitting is suitable for the installation in outdoor spaces with shelter. It is equipped with a ventilation plug made of polyamide which eliminates the presence of condensation fumes and underpressure in the light fitting caused by ambient temperature fluctuations.

The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

(It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 367).

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate with Al coolers (PC Al) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime [CLO]
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80: 4000 K

- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- Certification: EPD, ENEC, CB, HACCP



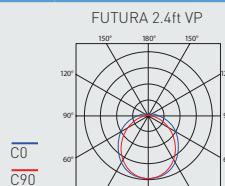
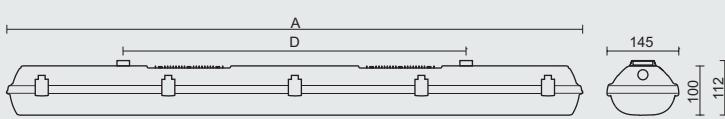
FUTURA VP PC AL, VP PCc AL



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
 - Maximum ambient temperature: $t_a = 50^\circ\text{C}$,
Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$
(version with emergency back-up source for
1 or 3 hours; M1h, M3h)
 - Maximum system efficacy: 165 lm/W
 - The watt and lumen values can vary by $\pm 7.5\%$
 - Standard model - CRI > 80: 4000 K
 - MacAdam = 3 SDCM
 - Lifetime: 50,000 hours / L90B10
 - Diffuser: translucent polycarbonate (PC), UV
stable, impact-resistant
 - Body: grey polycarbonate with Al coolers, UV
stable, impact-resistant
 - Reflector: steel sheet, white colour [RAL 9003]

- Ventilation plug: type BVPB-01 made of polyamide, size M12 x 1.5
 - Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
 - Sealing: polyurethane (PUR), foamed body groove
 - Cable glands: screwed PG 13.5
 - Distance part: polyamide + 10 % glass fibre
 - Terminal block: screwless, three-pole (basic version)
 - Installation: package contains stainless hooks and stainless brackets
 - Electric equipment: LED modules, current driver or current driver DALI



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 50^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate | | | | | | | | | |
| FUTURA 2.2ft VP PC Al 2600/840 | 50 | 2600 | 2440 | 16,1 | 152 | 23,1 / 21,1 | 1,45 | 612 | 475 |
| FUTURA 2.2ft VP PC Al 3200/840 | 50 | 3100 | 2910 | 19,1 | 152 | 23,8 / 21,8 | 1,45 | 612 | 475 |
| FUTURA 2.2ft VP PC Al 4400/840 | 45 | 4300 | 4040 | 26,0 | 155 | 24,8 / 23,0 | 1,45 | 612 | 475 |
| FUTURA 2.4ft VP PC Al 5200/840 | 50 | 5230 | 4920 | 30,3 | 162 | 23,3 / 21,6 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft VP PC Al 6400/840 | 50 | 6240 | 5870 | 36,3 | 162 | 24,0 / 22,2 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft VP PC Al 8800/840 | 45 | 8690 | 8170 | 49,7 | 164 | 25,1 / 23,4 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft VP PC Al 12800/840 | 35 | 13920 | 13080 | 82,5 | 159 | 26,7 / 24,9 | 2,65 | 1172 | 700 |
| FUTURA 2.5ft VP PC Al 6500/840 | 50 | 6500 | 6110 | 37,1 | 165 | 23,3 / 21,6 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft VP PC Al 8000/840 | 50 | 7770 | 7300 | 44,4 | 164 | 24,0 / 22,2 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft VP PC Al 11000/840 | 45 | 12310 | 11570 | 71,1 | 163 | 25,6 / 23,9 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft VP PC Al 16000/840 | 35 | 17440 | 16390 | 102,2 | 160 | 26,7 / 25,0 | 3,25 | 1452 | 940 |

76020 FUTURA 2.2ft VP PC AL 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 - 2 x 18W

76050 FUTURA 2.4ft VP PC AL 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2 x 36W

76080 FUTURA 2.5ft VP PC AL 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 – 2 x 58W

FUTURA VP PC AL

Non-dimmable driver - plastic clips

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|---------------------------------|-------|-------|-------|-------|--------|--------|
| 76010 | FUTURA 2.2ft VP PC AL 2600/840 | x | x | 76014 | 76015 | x | x |
| 76020 | FUTURA 2.2ft VP PC AL 3200/840 | x | x | 76024 | 76025 | x | x |
| 76030 | FUTURA 2.2ft VP PC AL 4400/840 | x | x | 76034 | 76035 | x | x |
| 76040 | FUTURA 2.4ft VP PC AL 5200/840 | 76140 | 76340 | 76044 | 76045 | 76344 | 76345 |
| 76050 | FUTURA 2.4ft VP PC AL 6400/840 | 76150 | 76350 | 76054 | 76055 | 76354 | 76355 |
| 76060 | FUTURA 2.4ft VP PC AL 8800/840 | 76160 | 76360 | 76064 | 76065 | 76364 | 76365 |
| 76410 | FUTURA 2.4ft VP PC AL 12800/840 | 76411 | 76412 | x | x | x | x |
| 76070 | FUTURA 2.5ft VP PC AL 6500/840 | 76170 | 76370 | 76074 | 76075 | 76374 | 76375 |
| 76080 | FUTURA 2.5ft VP PC AL 8000/840 | 76180 | 76380 | 76084 | 76085 | 76384 | 76385 |
| 76090 | FUTURA 2.5ft VP PC AL 11000/840 | 76190 | 76390 | 76094 | 76095 | 76394 | 76395 |
| 76420 | FUTURA 2.5ft VP PC AL 16000/840 | 76421 | 76422 | x | x | x | x |

FUTURA VP PCc AU

Non-dimmable driver - stainless clips (c)

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------------|----------------------------------|-----------|-----------|------------|------------|---------------|---------------|
| 76210 | FUTURA 2.2ft VP PCc AL 2600/840 | x | x | 76214 | 76215 | x | x |
| 76220 | FUTURA 2.2ft VP PCc AL 3200/840 | x | x | 76224 | 76225 | x | x |
| 76230 | FUTURA 2.2ft VP PCc AL 4400/840 | x | x | 76234 | 76235 | x | x |
| 76240 | FUTURA 2.4ft VP PCc AL 5200/840 | 76540 | 76640 | 76244 | 76245 | 76644 | 76645 |
| 76250 | FUTURA 2.4ft VP PCc AL 6400/840 | 76550 | 76650 | 76254 | 76255 | 76654 | 76655 |
| 76260 | FUTURA 2.4ft VP PCc AL 8800/840 | 76560 | 76660 | 76264 | 76265 | 76664 | 76665 |
| 76430 | FUTURA 2.4ft VP PCc AL 12800/840 | 76431 | 76432 | x | x | x | x |
| 76270 | FUTURA 2.5ft VP PCc AL 6500/840 | 76570 | 76670 | 76274 | 76275 | 76674 | 76675 |
| 76280 | FUTURA 2.5ft VP PCc AL 8000/840 | 76580 | 76680 | 76284 | 76285 | 76684 | 76685 |
| 76290 | FUTURA 2.5ft VP PCc AL 11000/840 | 76590 | 76690 | 76294 | 76295 | 76694 | 76695 |
| 76440 | FUTURA 2.5ft VP PCc AL 16000/840 | 76441 | 76442 | x | x | x | x |

Example of type marking: 76664 = FUTURA 2.4ft VP PCc Al 8800/840 **3F M1h**

FUTURA VP PC AL DALI

| Code | Type |
|-------------|--------------------------------------|
| 76013 | FUTURA 2.2ft VP PC AL 2600/840 DALI |
| 76023 | FUTURA 2.2ft VP PC AL 3200/840 DALI |
| 76033 | FUTURA 2.2ft VP PC AL 4400/840 DALI |
| 76043 | FUTURA 2.4ft VP PC AL 5200/840 DALI |
| 76053 | FUTURA 2.4ft VP PC AL 6400/840 DALI |
| 76063 | FUTURA 2.4ft VP PC AL 8800/840 DALI |
| 76450 | FUTURA 2.4ft VP PC AL 12800/840 DALI |
| 76073 | FUTURA 2.5ft VP PC AL 6500/840 DALI |
| 76083 | FUTURA 2.5ft VP PC AL 8000/840 DALI |
| 76093 | FUTURA 2.5ft VP PC AL 11000/840 DALI |
| 76460 | FUTURA 2.5ft VP PC AL 16000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| x | x | 76017 | 76019 | x | x |
| x | x | 76027 | 76029 | x | x |
| x | x | 76037 | 76039 | x | x |
| 76143 | 76343 | 76047 | 76049 | 76347 | 76349 |
| 76153 | 76353 | 76057 | 76059 | 76357 | 76359 |
| 76163 | 76363 | 76067 | 76069 | 76367 | 76369 |
| 76451 | 76452 | x | x | x | x |
| 76173 | 76373 | 76077 | 76079 | 76377 | 76379 |
| 76183 | 76383 | 76087 | 76089 | 76387 | 76389 |
| 76193 | 76393 | 76097 | 76099 | 76397 | 76399 |
| 76461 | 76462 | x | x | x | x |

FUTURA VP PCc AL DALI

| Code | Type |
|-------------|---------------------------------------|
| 76213 | FUTURA 2.2ft VP PCc AL 2600/840 DALI |
| 76223 | FUTURA 2.2ft VP PCc AL 3200/840 DALI |
| 76233 | FUTURA 2.2ft VP PCc AL 4400/840 DALI |
| 76243 | FUTURA 2.4ft VP PCc AL 5200/840 DALI |
| 76253 | FUTURA 2.4ft VP PCc AL 6400/840 DALI |
| 76263 | FUTURA 2.4ft VP PCc AL 8800/840 DALI |
| 76470 | FUTURA 2.4ft VP PCc AL 12800/840 DALI |
| 76273 | FUTURA 2.5ft VP PCc AL 6500/840 DALI |
| 76283 | FUTURA 2.5ft VP PCc AL 8000/840 DALI |
| 76293 | FUTURA 2.5ft VP PCc AL 11000/840 DALI |
| 76480 | FUTURA 2.5ft VP PCc AL 16000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| x | x | 76217 | 76219 | x | x |
| x | x | 76227 | 76229 | x | x |
| x | x | 76237 | 76239 | x | x |
| 76543 | 76643 | 76247 | 76249 | 76647 | 76649 |
| 76553 | 76653 | 76257 | 76259 | 76657 | 76659 |
| 76563 | 76663 | 76267 | 76269 | 76667 | 76669 |
| 76471 | 76472 | x | x | x | x |
| 76573 | 76673 | 76277 | 76279 | 76677 | 76679 |
| 76583 | 76683 | 76287 | 76289 | 76687 | 76689 |
| 76593 | 76693 | 76297 | 76299 | 76697 | 76699 |
| 76481 | 76482 | x | x | x | x |

Example of type marking: 76667 = FUTURA 2.4ft VP PCc AL 8800/840 DALI **3F M1h****LEGEND**

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

FUTURA VP



FUTURA NB



BIM
ready

... for storage rack lanes with high ceilings 10-15 m.

USE

The light fitting with narrow emitting characteristics is suitable to illuminate storage rack lanes and narrow spaces with high ceilings. Its assembly height is 10-15 m.

The light fitting is resistant to dust, moisture and splashing water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 367.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 40°C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: transparent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate with Al coolers (PC Al) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime [CLO]
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80: 4000 K

- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- It can be delivered with a grille to reduce the longitudinal UGR
- Through-wiring of up to 10 wires at body
- Certification: HACCP



FUTURA NB PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 147 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: transparent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate with Al coolers (PC Al), UV stable, impact-resistant
- Reflector: parabolic polished aluminium with narrow emitting characteristics (NB - narrow beam)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] D [mm] | |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|---------------|-----|
| | | | | | | | | A | D |
| For ambient temperature $t_a = 40^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: transparent polycarbonate | | | | | | | | | |
| FUTURA 2.4ft NB PC Al 8800/840 | 40 | 8690 | 7300 | 49,7 | 147 | 20.8 / 23.8 | 3,3 | 1172 | 700 |
| FUTURA 2.4ft NB PC Al 12800/840 | 30 | 13920 | 11690 | 82,5 | 142 | 22.4 / 25.3 | 3,3 | 1172 | 700 |
| FUTURA 2.5ft NB PC Al 11000/840 | 40 | 12310 | 10340 | 71,1 | 145 | 21.3 / 24.3 | 3,9 | 1452 | 940 |
| FUTURA 2.5ft NB PC Al 16000/840 | 30 | 17440 | 14650 | 102,2 | 143 | 22.5 / 25.4 | 3,9 | 1452 | 940 |

FUTURA NB PC Al

| Code | Type |
|-------|---------------------------------|
| 78060 | FUTURA 2.4ft NB PC Al 8800/840 |
| 78070 | FUTURA 2.4ft NB PC Al 12800/840 |
| 78090 | FUTURA 2.5ft NB PC Al 11000/840 |
| 78080 | FUTURA 2.5ft NB PC Al 16000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 78160 | 78360 | 78064 | 78065 | 78364 | 78365 |
| 78170 | 78370 | x | x | x | x |
| 78190 | 78390 | 78094 | 78095 | 78394 | 78395 |
| 78180 | 78380 | x | x | x | x |

FUTURA NB PCc Al

| Code | Type |
|-------|----------------------------------|
| 78260 | FUTURA 2.4ft NB PCc Al 8800/840 |
| 78270 | FUTURA 2.4ft NB PCc Al 12800/840 |
| 78290 | FUTURA 2.5ft NB PCc Al 11000/840 |
| 78280 | FUTURA 2.5ft NB PCc Al 16000/840 |

Non-dimmable driver - stainless clips [c]

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 78560 | 78660 | 78264 | 78265 | 78664 | 78665 |
| 78570 | 78670 | x | x | x | x |
| 78590 | 78690 | 78294 | 78295 | 78694 | 78695 |
| 78580 | 78680 | x | x | x | x |

FUTURA NB PC Al DALI

| Code | Type |
|-------|--------------------------------------|
| 78063 | FUTURA 2.4ft NB PC Al 8800/840 DALI |
| 78073 | FUTURA 2.4ft NB PC Al 12800/840 DALI |
| 78093 | FUTURA 2.5ft NB PC Al 11000/840 DALI |
| 78083 | FUTURA 2.5ft NB PC Al 16000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 78163 | 78363 | 78067 | 78069 | 78367 | 78369 |
| 78173 | 78373 | x | x | x | x |
| 78193 | 78393 | 78097 | 78099 | 78397 | 78399 |
| 78183 | 78383 | x | x | x | x |

FUTURA NB PCc Al DALI

| Code | Type |
|-------|---------------------------------------|
| 78263 | FUTURA 2.4ft NB PCc Al 8800/840 DALI |
| 78273 | FUTURA 2.4ft NB PCc Al 12800/840 DALI |
| 78293 | FUTURA 2.5ft NB PCc Al 11000/840 DALI |
| 78283 | FUTURA 2.5ft NB PCc Al 16000/840 DALI |

Digital dimmable driver DALI - stainless clips [c]

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 78563 | 78663 | 78267 | 78269 | 78667 | 78669 |
| 78573 | 78673 | x | x | x | x |
| 78593 | 78693 | 78297 | 78299 | 78697 | 78699 |
| 78583 | 78683 | x | x | x | x |

Example of type marking: 78669 = FUTURA 2.4ft NB PCc Al 8800/840 DALI 3F M3h

LEGEND

| | | | |
|---------------|--|--------------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire | DALI | version with digital dimmable driver DALI |
| 3F | 3-phase 5 core through-wiring in the luminaire | DALI 1F | 1-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination | DALI 3F | 3-phase 7 core through-wiring in the luminaire |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination | DALI 3F Mxh | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) | | |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks



LIGHT FITTING DETAILED VIEW

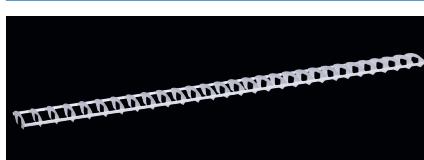
FUTURA NB



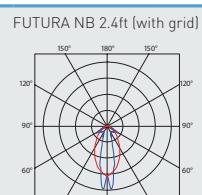
ACCESSORIES

Grid FUTURA NB

Additional grid for reducing the longitudinal UGR for FUTURA NB lamps.
The grid reduces the glare value in the longitudinal direction to below 19 (see the luminance curve below).



| Code | Type | Description | Weight [kg] |
|-------|---------|----------------------|-------------|
| 11989 | MNB 2.4 | grid FUTURA 2.4ft NB | 0,36 |
| 11990 | MNB 2.5 | grid FUTURA 2.5ft NB | 0,45 |



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| Change of the values for lamp variants with grid | | | | | | | | | |
| FUTURA 2.4ft NB PC Al 8800/840 | 40 | 8690 | 5650 | 49,7 | 114 | 20.8 / 19.5 | 3,3 | 1172 | 700 |
| FUTURA 2.4ft NB PC Al 12800/840 | 30 | 13920 | 9050 | 82,5 | 110 | 22.3 / 21.0 | 3,3 | 1172 | 700 |
| FUTURA 2.5ft NB PC Al 11000/840 | 40 | 12310 | 8000 | 71,1 | 113 | 21.2 / 20.0 | 3,9 | 1452 | 940 |
| FUTURA 2.5ft NB PC Al 16000/840 | 30 | 17440 | 11340 | 102,2 | 111 | 22.4 / 21.1 | 3,9 | 1452 | 940 |

FUTURA ABS



... dustproof, waterproof and chemically resistant.

USE

The light fitting is suitable for the environment where ammoniac fumes, lixivants, alkaline compounds and hot water (hydrolyses) can be present. We recommend this light fitting for agricultural operations, stables, car washing lines, warehouses, mechanical workshops and laboratories without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to dust, moisture and spouting water. The body made of ABS and the diffuser made of AC have increased chemical resistance.

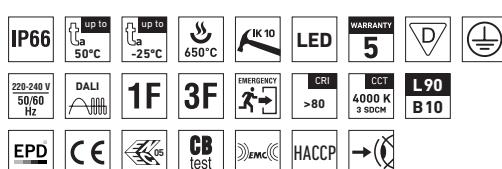
[It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 367].

Always open the cover of the light fitting out of an environment with aggressive volatile substances.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate (AC) = high chemical resistance
- Body: dark grey ABS with Al coolers (ABS Al) = high chemical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime [CLO]
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80: 4000 K

- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- Certification: EPD, ENEC, CB, (except RED), HACCP



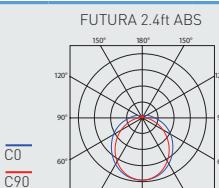
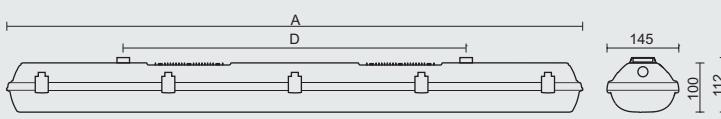
FUTURA ABS Al, ABSc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$
- Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 154 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80; 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate (AC), UV stable, chemically resistant
- Body: dark grey ABS with Al coolers (ABS Al), UV stable, chemically resistant

- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15% glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10% glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 50^\circ\text{C}$ - body: dark grey ABS with Al coolers - diffuser: translucent acrylate | | | | | | | | | |
| FUTURA 2.2ft ABS Al 2600/840 | 50 | 2600 | 2290 | 16,1 | 142 | 23.1 / 20.9 | 1,45 | 612 | 475 |
| FUTURA 2.2ft ABS Al 3200/840 | 50 | 3100 | 2730 | 19,1 | 143 | 23.7 / 21.5 | 1,45 | 612 | 475 |
| FUTURA 2.2ft ABS Al 4400/840 | 45 | 4300 | 3780 | 26,0 | 145 | 24.9 / 22.6 | 1,45 | 612 | 475 |
| FUTURA 2.4ft ABS Al 5200/840 | 50 | 5230 | 4600 | 30,3 | 152 | 23.3 / 21.3 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft ABS Al 6400/840 | 50 | 6240 | 5490 | 36,3 | 151 | 24.0 / 21.9 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft ABS Al 8800/840 | 45 | 8690 | 7650 | 49,7 | 154 | 25.1 / 23.1 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft ABS Al 12800/840 | 35 | 13920 | 12250 | 82,5 | 148 | 26.5 / 24.7 | 2,65 | 1172 | 700 |
| FUTURA 2.5ft ABS Al 6500/840 | 50 | 6500 | 5720 | 37,1 | 154 | 23.4 / 21.4 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft ABS Al 8000/840 | 50 | 7770 | 6840 | 44,4 | 154 | 24.0 / 22.0 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft ABS Al 11000/840 | 45 | 12310 | 10830 | 71,1 | 152 | 25.6 / 23.6 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft ABS Al 16000/840 | 35 | 17440 | 15350 | 102,2 | 150 | 26.5 / 24.7 | 3,25 | 1452 | 940 |

77020 FUTURA 2.2ft ABS Al 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 - 2x18W

77050 FUTURA 2.4ft ABS Al 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2x36W

77080 FUTURA 2.5ft ABS Al 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2x58W

FUTURA ABS Al

Non-dimmable driver - plastic clips

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------------------------------|-------|-------|-------|-------|--------|--------|
| 77010 | FUTURA 2.2ft ABS Al 2600/840 | x | x | 77014 | 77015 | x | x |
| 77020 | FUTURA 2.2ft ABS Al 3200/840 | x | x | 77024 | 77025 | x | x |
| 77030 | FUTURA 2.2ft ABS Al 4400/840 | x | x | 77034 | 77035 | x | x |
| 77040 | FUTURA 2.4ft ABS Al 5200/840 | 77140 | 77340 | 77044 | 77045 | 77344 | 77345 |
| 77050 | FUTURA 2.4ft ABS Al 6400/840 | 77150 | 77350 | 77054 | 77055 | 77354 | 77355 |
| 77060 | FUTURA 2.4ft ABS Al 8800/840 | 77160 | 77360 | 77064 | 77065 | 77364 | 77365 |
| 77410 | FUTURA 2.4ft ABS Al 12800/840 | 77411 | 77412 | x | x | x | x |
| 77070 | FUTURA 2.5ft ABS Al 6500/840 | 77170 | 77370 | 77074 | 77075 | 77374 | 77375 |
| 77080 | FUTURA 2.5ft ABS Al 8000/840 | 77180 | 77380 | 77084 | 77085 | 77384 | 77385 |
| 77090 | FUTURA 2.5ft ABS Al 11000/840 | 77190 | 77390 | 77094 | 77095 | 77394 | 77395 |
| 77420 | FUTURA 2.5ft ABS Al 16000/840 | 77421 | 77422 | x | x | x | x |

FUTURA ABSc Al

Non-dimmable driver - stainless clips (c)

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|--------------------------------|-------|-------|-------|-------|--------|--------|
| 77210 | FUTURA 2.2ft ABSc Al 2600/840 | x | x | 77214 | 77215 | x | x |
| 77220 | FUTURA 2.2ft ABSc Al 3200/840 | x | x | 77224 | 77225 | x | x |
| 77230 | FUTURA 2.2ft ABSc Al 4400/840 | x | x | 77234 | 77235 | x | x |
| 77240 | FUTURA 2.4ft ABSc Al 5200/840 | 77540 | 77640 | 77244 | 77245 | 77644 | 77645 |
| 77250 | FUTURA 2.4ft ABSc Al 6400/840 | 77550 | 77650 | 77254 | 77255 | 77654 | 77655 |
| 77260 | FUTURA 2.4ft ABSc Al 8800/840 | 77560 | 77660 | 77264 | 77265 | 77664 | 77665 |
| 77430 | FUTURA 2.4ft ABSc Al 12800/840 | 77431 | 77432 | x | x | x | x |
| 77270 | FUTURA 2.5ft ABSc Al 6500/840 | 77570 | 77670 | 77274 | 77275 | 77674 | 77675 |
| 77280 | FUTURA 2.5ft ABSc Al 8000/840 | 77580 | 77680 | 77284 | 77285 | 77684 | 77685 |
| 77290 | FUTURA 2.5ft ABSc Al 11000/840 | 77590 | 77690 | 77294 | 77295 | 77694 | 77695 |
| 77440 | FUTURA 2.5ft ABSc Al 16000/840 | 77441 | 77442 | x | x | x | x |

FUTURA ABS AI DALI

| Code | Type | Digital dimmable driver DALI - plastic clips | | | | | |
|-------|------------------------------------|--|-------|-------|-------|--------|--------|
| | | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
| 77013 | FUTURA 2.2ft ABS AI 2600/840 DALI | x | x | 77017 | 77019 | x | x |
| 77023 | FUTURA 2.2ft ABS AI 3200/840 DALI | x | x | 77027 | 77029 | x | x |
| 77033 | FUTURA 2.2ft ABS AI 4400/840 DALI | x | x | 77037 | 77039 | x | x |
| 77043 | FUTURA 2.4ft ABS AI 5200/840 DALI | 77143 | 77343 | 77047 | 77049 | 77347 | 77349 |
| 77053 | FUTURA 2.4ft ABS AI 6400/840 DALI | 77153 | 77353 | 77057 | 77059 | 77357 | 77359 |
| 77063 | FUTURA 2.4ft ABS AI 8800/840 DALI | 77163 | 77363 | 77067 | 77069 | 77367 | 77369 |
| 77450 | FUTURA 2.4ft ABS AI 12800/840 DALI | 77451 | 77452 | x | x | x | x |
| 77073 | FUTURA 2.5ft ABS AI 6500/840 DALI | 77173 | 77373 | 77077 | 77079 | 77377 | 77379 |
| 77083 | FUTURA 2.5ft ABS AI 8000/840 DALI | 77183 | 77383 | 77087 | 77089 | 77387 | 77389 |
| 77093 | FUTURA 2.5ft ABS AI 11000/840 DALI | 77193 | 77393 | 77097 | 77099 | 77397 | 77399 |
| 77460 | FUTURA 2.5ft ABS AI 16000/840 DALI | 77461 | 77462 | x | x | x | x |

FUTURA ABSc AI DALI

| Code | Type | Digital dimmable driver DALI - stainless clips (c) | | | | | |
|-------|-------------------------------------|--|-------|-------|-------|--------|--------|
| | | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
| 77213 | FUTURA 2.2ft ABSc AI 2600/840 DALI | x | x | 77217 | 77219 | x | x |
| 77223 | FUTURA 2.2ft ABSc AI 3200/840 DALI | x | x | 77227 | 77229 | x | x |
| 77233 | FUTURA 2.2ft ABSc AI 4400/840 DALI | x | x | 77237 | 77239 | x | x |
| 77243 | FUTURA 2.4ft ABSc AI 5200/840 DALI | 77543 | 77643 | 77247 | 77249 | 77647 | 77649 |
| 77253 | FUTURA 2.4ft ABSc AI 6400/840 DALI | 77553 | 77653 | 77257 | 77259 | 77657 | 77659 |
| 77263 | FUTURA 2.4ft ABSc AI 8800/840 DALI | 77563 | 77663 | 77267 | 77269 | 77667 | 77669 |
| 77470 | FUTURA 2.4ft ABSc AI 12800/840 DALI | 77471 | 77472 | x | x | x | x |
| 77273 | FUTURA 2.5ft ABSc AI 6500/840 DALI | 77573 | 77673 | 77277 | 77279 | 77677 | 77679 |
| 77283 | FUTURA 2.5ft ABSc AI 8000/840 DALI | 77583 | 77683 | 77287 | 77289 | 77687 | 77689 |
| 77293 | FUTURA 2.5ft ABSc AI 11000/840 DALI | 77593 | 77693 | 77297 | 77299 | 77697 | 77699 |
| 77480 | FUTURA 2.5ft ABSc AI 16000/840 DALI | 77481 | 77482 | x | x | x | x |

Example of type marking: 77667 = FUTURA 2.4ft ABSc AI 8800/840 DALI **3F M1h**

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**LIGHT FITTING DETAILED VIEW**

FUTURA ABS



FUTURA ES ABS



... Energy Saver, chemically resistant.

USE

The light fitting is suitable for the environment where ammoniac fumes, lixivants, alkaline compounds and hot water (hydrolyses) can be present. We recommend this light fitting for agricultural operations, stables, car washing lines, warehouses, mechanical workshops and laboratories without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to dust, moisture and spouting water. The body made of ABS and the diffuser made of AC have increased chemical resistance.

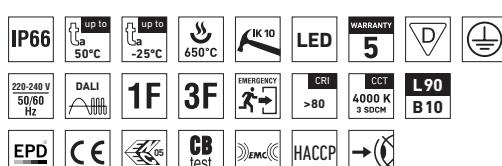
[It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 367].

Always open the cover of the light fitting out of an environment with aggressive volatile substances.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate [AC] = high chemical resistance
- Body: dark grey ABS with Al coolers [ABS Al] = high chemical resistance
- Up to 50 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime [CLO]
- Constant luminous flux even in ambient temperature of -25 °C

- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- Certification: EPD, ENEC, CB, HACCP

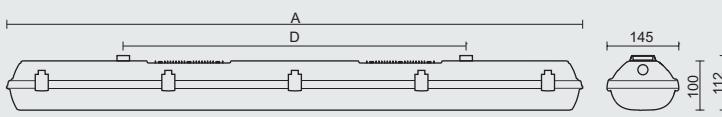


FUTURA ES ABS Al, ABSc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ [version with emergency back-up source for 1 or 3 hours; M1h, M3h]
- Maximum system efficacy: 162 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate (AC), UV stable, chemically resistant
- Body: dark grey ABS with Al coolers (ABS Al), UV stable, chemically resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15% glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10% glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 50^\circ\text{C}$ - body: dark grey ABS with Al coolers - diffuser: translucent acrylate | | | | | | | | | |
| FUTURA 2.2ft ES ABS Al 2600/840 | 50 | 2690 | 2370 | 15,3 | 155 | 23,2 / 21,0 | 1,45 | 612 | 475 |
| FUTURA 2.2ft ES ABS Al 3200/840 | 50 | 3190 | 2810 | 18,2 | 154 | 23,8 / 21,6 | 1,45 | 612 | 475 |
| FUTURA 2.2ft ES ABS Al 4400/840 | 45 | 4380 | 3850 | 24,6 | 157 | 24,9 / 22,7 | 1,45 | 612 | 475 |
| FUTURA 2.4ft ES ABS Al 5200/840 | 50 | 5300 | 4660 | 28,9 | 161 | 23,4 / 21,4 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft ES ABS Al 6400/840 | 50 | 6410 | 5640 | 35,2 | 160 | 24,0 / 22,0 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft ES ABS Al 8800/840 | 45 | 9110 | 8020 | 50,4 | 159 | 25,3 / 23,2 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft ES ABS Al 12800/840 | 35 | 14490 | 12750 | 80,1 | 159 | 26,6 / 24,8 | 2,65 | 1172 | 700 |
| FUTURA 2.5ft ES ABS Al 6500/840 | 50 | 6920 | 6090 | 37,7 | 162 | 23,6 / 21,6 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft ES ABS Al 8000/840 | 50 | 8150 | 7170 | 45,1 | 159 | 24,1 / 22,2 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft ES ABS Al 11000/840 | 45 | 12560 | 11050 | 68,9 | 160 | 25,6 / 23,7 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft ES ABS Al 16000/840 | 35 | 17980 | 15820 | 99,3 | 159 | 26,6 / 24,8 | 3,25 | 1452 | 940 |

77020 FUTURA 2.2ft ES ABS Al 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 - 2x18W

77050 FUTURA 2.4ft ES ABS Al 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2x36W

77080 FUTURA 2.5ft ES ABS Al 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2x58W

FUTURA ES ABS Al

Non-dimmable driver - plastic clips

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|----------------------------------|-------|-------|-------|-------|--------|--------|
| 10510 | FUTURA 2.2ft ES ABS Al 2600/840 | x | x | 10514 | 10515 | x | x |
| 10520 | FUTURA 2.2ft ES ABS Al 3200/840 | x | x | 10524 | 10525 | x | x |
| 10530 | FUTURA 2.2ft ES ABS Al 4400/840 | x | x | 10534 | 10535 | x | x |
| 10540 | FUTURA 2.4ft ES ABS Al 5200/840 | 10541 | 10543 | 10544 | 10545 | 10546 | 10547 |
| 10550 | FUTURA 2.4ft ES ABS Al 6400/840 | 10551 | 10553 | 10554 | 10555 | 10556 | 10557 |
| 10560 | FUTURA 2.4ft ES ABS Al 8800/840 | 10561 | 10563 | 10564 | 10565 | 10566 | 10567 |
| 10570 | FUTURA 2.4ft ES ABS Al 12800/840 | 10571 | 10573 | x | x | x | x |
| 10580 | FUTURA 2.5ft ES ABS Al 6500/840 | 10581 | 10583 | 10584 | 10585 | 10586 | 10587 |
| 10590 | FUTURA 2.5ft ES ABS Al 8000/840 | 10591 | 10593 | 10594 | 10595 | 10596 | 10597 |
| 10600 | FUTURA 2.5ft ES ABS Al 11000/840 | 10601 | 10603 | 10604 | 10605 | 10606 | 10607 |
| 10610 | FUTURA 2.5ft ES ABS Al 16000/840 | 10611 | 10613 | x | x | x | x |

FUTURA ES ABSc Al

Non-dimmable driver - stainless clips (c)

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-----------------------------------|-------|-------|-------|-------|--------|--------|
| 10620 | FUTURA 2.2ft ES ABSc Al 2600/840 | x | x | 10624 | 10625 | x | x |
| 10630 | FUTURA 2.2ft ES ABSc Al 3200/840 | x | x | 10634 | 10635 | x | x |
| 10640 | FUTURA 2.2ft ES ABSc Al 4400/840 | x | x | 10644 | 10645 | x | x |
| 10650 | FUTURA 2.4ft ES ABSc Al 5200/840 | 10651 | 10653 | 10654 | 10655 | 10656 | 10657 |
| 10660 | FUTURA 2.4ft ES ABSc Al 6400/840 | 10661 | 10663 | 10664 | 10665 | 10666 | 10667 |
| 10670 | FUTURA 2.4ft ES ABSc Al 8800/840 | 10671 | 10673 | 10674 | 10675 | 10676 | 10677 |
| 10680 | FUTURA 2.4ft ES ABSc Al 12800/840 | 10681 | 10683 | x | x | x | x |
| 10690 | FUTURA 2.5ft ES ABSc Al 6500/840 | 10691 | 10693 | 10694 | 10695 | 10696 | 10697 |
| 10700 | FUTURA 2.5ft ES ABSc Al 8000/840 | 10701 | 10703 | 10704 | 10705 | 10706 | 10707 |
| 10710 | FUTURA 2.5ft ES ABSc Al 11000/840 | 10711 | 10713 | 10714 | 10715 | 10716 | 10717 |
| 10720 | FUTURA 2.5ft ES ABSc Al 16000/840 | 10721 | 10723 | x | x | x | x |

Example of type marking: 10706 = FUTURA 2.4ft ES ABSc Al 8800/840 3F M1h

FUTURA ES ABS AI DALI

| Code | Type |
|-------|---------------------------------------|
| 10730 | FUTURA 2.2ft ES ABS AI 2600/840 DALI |
| 10740 | FUTURA 2.2ft ES ABS AI 3200/840 DALI |
| 10750 | FUTURA 2.2ft ES ABS AI 4400/840 DALI |
| 10760 | FUTURA 2.4ft ES ABS AI 5200/840 DALI |
| 10770 | FUTURA 2.4ft ES ABS AI 6400/840 DALI |
| 10780 | FUTURA 2.4ft ES ABS AI 8800/840 DALI |
| 10790 | FUTURA 2.4ft ES ABS AI 12800/840 DALI |
| 10800 | FUTURA 2.5ft ES ABS AI 6500/840 DALI |
| 10810 | FUTURA 2.5ft ES ABS AI 8000/840 DALI |
| 10820 | FUTURA 2.5ft ES ABS AI 11000/840 DALI |
| 10830 | FUTURA 2.5ft ES ABS AI 16000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | 10734 | 10735 | x | x |
| x | x | 10744 | 10745 | x | x |
| x | x | 10754 | 10755 | x | x |
| 10761 | 10763 | 10764 | 10765 | 10766 | 10767 |
| 10771 | 10773 | 10774 | 10775 | 10776 | 10777 |
| 10781 | 10783 | 10784 | 10785 | 10786 | 10787 |
| 10791 | 10793 | x | x | x | x |
| 10801 | 10803 | 10804 | 10805 | 10806 | 10807 |
| 10811 | 10813 | 10814 | 10815 | 10816 | 10817 |
| 10821 | 10823 | 10824 | 10825 | 10826 | 10827 |
| 10831 | 10833 | x | x | x | x |

FUTURA ES ABSc AI DALI

| Code | Type |
|-------|--|
| 10840 | FUTURA 2.2ft ES ABSc AI 2600/840 DALI |
| 10850 | FUTURA 2.2ft ES ABSc AI 3200/840 DALI |
| 10860 | FUTURA 2.2ft ES ABSc AI 4400/840 DALI |
| 10870 | FUTURA 2.4ft ES ABSc AI 5200/840 DALI |
| 10880 | FUTURA 2.4ft ES ABSc AI 6400/840 DALI |
| 10890 | FUTURA 2.4ft ES ABSc AI 8800/840 DALI |
| 10900 | FUTURA 2.4ft ES ABSc AI 12800/840 DALI |
| 10910 | FUTURA 2.5ft ES ABSc AI 6500/840 DALI |
| 10920 | FUTURA 2.5ft ES ABSc AI 8000/840 DALI |
| 10930 | FUTURA 2.5ft ES ABSc AI 11000/840 DALI |
| 10940 | FUTURA 2.5ft ES ABSc AI 16000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | 10844 | 10845 | x | x |
| x | x | 10854 | 10855 | x | x |
| x | x | 10864 | 10865 | x | x |
| 10871 | 10873 | 10874 | 10875 | 10876 | 10877 |
| 10881 | 10883 | 10884 | 10885 | 10886 | 10887 |
| 10891 | 10893 | 10894 | 10895 | 10896 | 10897 |
| 10901 | 10903 | x | x | x | x |
| 10911 | 10913 | 10914 | 10915 | 10916 | 10917 |
| 10921 | 10923 | 10924 | 10925 | 10926 | 10927 |
| 10931 | 10933 | 10934 | 10935 | 10936 | 10937 |
| 10941 | 10943 | x | x | x | x |

Example of type marking: 1089 = FUTURA 2.4ft ES ABSc AI 8800/840 DALI **3F M1h**

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
b) Suspension with the use of stainless hooks
c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

FUTURA ES ABS



FUTURA HE ABS



... high efficiency, with sulphur-resistant LED chips, chemically resistant.

USE

The light fitting is suitable for the environment where ammoniac fumes, lixivants, alkaline compounds and hot water (hydrolyses) can be present. We recommend this light fitting for agricultural operations, stables, car washing lines, warehouses, mechanical workshops and laboratories without a danger of explosion of gas, dust and combustible fumes.

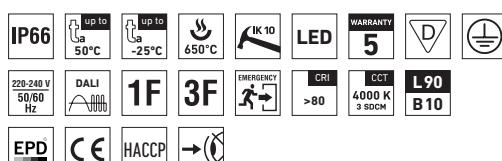
The light fitting is resistant to dust, moisture and spouting water. The body made of ABS and the diffuser made of AC have increased chemical resistance.

[It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 367].

Always open the cover of the light fitting out of an environment with aggressive volatile substances.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate (AC) = high chemical resistance
- Body: dark grey ABS with Al coolers (ABS Al) = high chemical resistance
- Up to 55 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80: 4000 K
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- **Chips with high sulphur resistance**
- Long lifetime due to low thermal resistance



FUTURA HE ABS AI, ABSc AI



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ [version with emergency back-up source for 1 or 3 hours; M1h, M3h]
- Maximum system efficacy: 169 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate (AC), UV stable, chemically resistant
- Body: dark grey ABS with Al coolers (ABS AI), UV stable, chemically resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15% glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10% glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED sulphur-resistant modules, current driver or current driver DALI

| Type | Max. ambient temperature $[^\circ\text{C}]$ | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|---|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------------|------------|
| | | | | | | | | Longitudinal | Transverse |
| For ambient temperature $t_a = 50^\circ\text{C}$ - body: dark grey ABS with Al coolers - diffuser: translucent acrylate | | | | | | | | | |
| FUTURA 2.2ft HE ABS AI 3200/840 | 50 | 3335 | 2930 | 18,6 | 158 | 23,8 / 21,8 | 1,45 | 612 | 475 |
| FUTURA 2.2ft HE ABS AI 4400/840 | 45 | 4520 | 3980 | 25,2 | 158 | 24,8 / 23,0 | 1,45 | 612 | 475 |
| FUTURA 2.2ft HE ABS AI 6400/840 | 35 | 6650 | 5850 | 35,9 | 163 | 26,2 / 24,2 | 1,45 | 612 | 475 |
| FUTURA 2.4ft HE ABS AI 6400/840 | 50 | 6690 | 5890 | 36,0 | 164 | 24,1 / 22,2 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft HE ABS AI 8800/840 | 45 | 9140 | 8040 | 48,6 | 165 | 25,1 / 23,3 | 2,45 | 1172 | 700 |
| FUTURA 2.4ft HE ABS AI 12800/840 | 35 | 15610 | 13740 | 81,7 | 168 | 26,9 / 25,2 | 2,65 | 1172 | 700 |
| FUTURA 2.5ft HE ABS AI 8000/840 | 50 | 8330 | 7330 | 44,1 | 166 | 24,0 / 22,2 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft HE ABS AI 11000/840 | 45 | 13200 | 11620 | 69,8 | 166 | 25,6 / 23,9 | 2,95 | 1452 | 940 |
| FUTURA 2.5ft HE ABS AI 16000/840 | 35 | 19400 | 17070 | 101,2 | 169 | 26,9 / 25,2 | 3,25 | 1452 | 940 |
| FUTURA 2.5ft HE ABS AI 22000/840 | 35 | 23220 | 20430 | 127,2 | 161 | 27,6 / 25,8 | 3,25 | 1452 | 940 |

FUTURA HE ABS AI

| Code | Type |
|--------|----------------------------------|
| 11200 | FUTURA 2.2ft HE ABS AI 3200/840 |
| 11210 | FUTURA 2.2ft HE ABS AI 4400/840 |
| 11203 | FUTURA 2.2ft HE ABS AI 6400/840 |
| 11206 | FUTURA 2.4ft HE ABS AI 6400/840 |
| 11220 | FUTURA 2.4ft HE ABS AI 8800/840 |
| 11216 | FUTURA 2.4ft HE ABS AI 12800/840 |
| 11219 | FUTURA 2.5ft HE ABS AI 8000/840 |
| 11230 | FUTURA 2.5ft HE ABS AI 11000/840 |
| 11241 | FUTURA 2.5ft HE ABS AI 16000/840 |
| 103423 | FUTURA 2.5ft HE ABS AI 22000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|-------|-------|--------|--------|
| x | x | 11201 | 11202 | x | x |
| x | x | 11214 | 11215 | x | x |
| x | x | 11204 | 11205 | x | x |
| 11207 | 11208 | 11209 | 11211 | 11212 | 11213 |
| 11221 | 11223 | 11224 | 11225 | 11226 | 11227 |
| 11217 | 11218 | x | x | x | x |
| 11222 | 11228 | 11229 | 11232 | 11238 | 11239 |
| 11231 | 11233 | 11234 | 11235 | 11236 | 11237 |
| 11242 | 11243 | x | x | x | x |
| 103426 | 103427 | x | x | x | x |

FUTURA HE ABSc AI

| Code | Type |
|--------|-----------------------------------|
| 11246 | FUTURA 2.2ft HE ABSc AI 3200/840 |
| 11240 | FUTURA 2.2ft HE ABSc AI 4400/840 |
| 11249 | FUTURA 2.2ft HE ABSc AI 6400/840 |
| 11259 | FUTURA 2.4ft HE ABSc AI 6400/840 |
| 11250 | FUTURA 2.4ft HE ABSc AI 8800/840 |
| 11276 | FUTURA 2.4ft HE ABSc AI 12800/840 |
| 11279 | FUTURA 2.5ft HE ABSc AI 8000/840 |
| 11260 | FUTURA 2.5ft HE ABSc AI 11000/840 |
| 11301 | FUTURA 2.5ft HE ABSc AI 16000/840 |
| 103430 | FUTURA 2.5ft HE ABSc AI 22000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|--------|--------|-------|-------|--------|--------|
| x | x | 11247 | 11248 | x | x |
| x | x | 11244 | 11245 | x | x |
| x | x | 11252 | 11258 | x | x |
| 11262 | 11268 | 11269 | 11271 | 11272 | 11273 |
| 11251 | 11253 | 11254 | 11255 | 11256 | 11257 |
| 11277 | 11278 | x | x | x | x |
| 11282 | 11288 | 11289 | 11292 | 11298 | 11299 |
| 11261 | 11263 | 11264 | 11265 | 11266 | 11267 |
| 11302 | 11303 | x | x | x | x |
| 103431 | 103425 | x | x | x | x |

Example of type marking: 11256 = FUTURA 2.4ft HE ABSc AI 8800/840 3F M1h

FUTURA HE ABS AL DALI

| Code | Type |
|-------------|---------------------------------------|
| 11306 | FUTURA 2.2ft HE ABS AL 3200/840 DALI |
| 11270 | FUTURA 2.2ft HE ABS AL 4400/840 DALI |
| 11309 | FUTURA 2.2ft HE ABS AL 6400/840 DALI |
| 11319 | FUTURA 2.4ft HE ABS AL 6400/840 DALI |
| 11280 | FUTURA 2.4ft HE ABS AL 8800/840 DALI |
| 11333 | FUTURA 2.4ft HE ABS AL 12800/840 DALI |
| 11336 | FUTURA 2.5ft HE ABS AL 8000/840 DALI |
| 11290 | FUTURA 2.5ft HE ABS AL 11000/840 DALI |
| 11343 | FUTURA 2.5ft HE ABS AL 16000/840 DALI |
| 103430 | FUTURA 2.5ft HE ABSc AL 22000/840 |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| x | x | 11307 | 11308 | x | x |
| x | x | 11274 | 11275 | x | x |
| x | x | 11312 | 11318 | x | x |
| 11322 | 11328 | 11329 | 11330 | 11331 | 11332 |
| 11281 | 11283 | 11284 | 11285 | 11286 | 11287 |
| 11334 | 11335 | x | x | x | x |
| 11337 | 11338 | 11339 | 11340 | 11341 | 11342 |
| 11291 | 11293 | 11294 | 11295 | 11296 | 11297 |
| 11344 | 11345 | x | x | x | x |
| 103431 | 103425 | x | x | x | x |

FUTURA HE ABSc AL DALI

| Code | Type |
|-------------|--|
| 11346 | FUTURA 2.2ft HE ABSc AL 3200/840 DALI |
| 11300 | FUTURA 2.2ft HE ABSc AL 4400/840 DALI |
| 11349 | FUTURA 2.2ft HE ABSc AL 6400/840 DALI |
| 11352 | FUTURA 2.4ft HE ABSc AL 6400/840 DALI |
| 11310 | FUTURA 2.4ft HE ABSc AL 8800/840 DALI |
| 11359 | FUTURA 2.4ft HE ABSc AL 12800/840 DALI |
| 11362 | FUTURA 2.5ft HE ABSc AL 8000/840 DALI |
| 11320 | FUTURA 2.5ft HE ABSc AL 11000/840 DALI |
| 11369 | FUTURA 2.5ft HE ABSc AL 16000/840 DALI |
| 103432 | FUTURA 2.5ft HE ABSc AL 22000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| x | x | 11347 | 11348 | x | x |
| x | x | 11304 | 11305 | x | x |
| x | x | 11350 | 11351 | x | x |
| 11353 | 11354 | 11355 | 11356 | 11357 | 11358 |
| 11311 | 11313 | 11314 | 11315 | 11316 | 11317 |
| 11360 | 11361 | x | x | x | x |
| 11363 | 11364 | 11365 | 11366 | 11367 | 11368 |
| 11321 | 11323 | 11324 | 11325 | 11326 | 11327 |
| 11370 | 11371 | x | x | x | x |
| 103433 | 103434 | x | x | x | x |

LEGEND

1F 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

DALI version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**LIGHT FITTING DETAILED VIEW****FUTURA HE ABS**

FUTURA CLASS II



... with Class II insulation.

USE

It is suitable for **industrial, warehouse and agricultural buildings, sports premises, transport terminals, railway vehicle repair shops, platforms, traction substations, depots, parking lots and garages, workshops and laboratories** without explosion hazard.

The light fitting resists dust, humidity and splashing water. The body and the diffuser made of PC material have high mechanical resistance against impact and deformation.

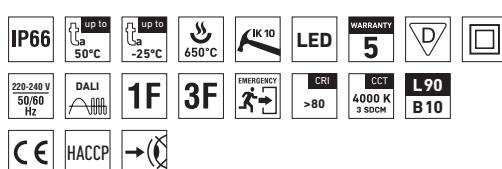
Easy, fast and maximally **efficient mounting is achieved when using the cables with connectors delivered by us**.

It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **$t_a = 50^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25°C

- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Available in ABS chemical resistant version
- Through-wiring of up to 6 wires at body (2.4ft and 2.5ft)

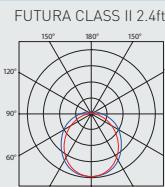
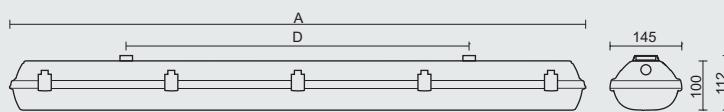


FUTURA CLASS II PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ [version with emergency back-up source for 1 or 3 hours; M1h, M3h]
- Maximum system efficacy: 165 lm/W
- AWEX emergency light module generates a luminous flux of 440 lm
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10 % glass fibre
- Terminal block: **Connectors with 2, 4 or 6 poles, wire section 1.5 or 2.5 mm**
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 50^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate | | | | | | | | | |
| FUTURA 2.2ft CLASS II PC 2600/840 | 50 | 2600 | 2440 | 16,1 | 152 | 23.1 / 21.1 | 1,35 | 612 | 475 |
| FUTURA 2.2ft CLASS II PC 3200/840 | 50 | 3100 | 2910 | 19,1 | 152 | 23.8 / 21.8 | 1,35 | 612 | 475 |
| FUTURA 2.2ft CLASS II PC 4400/840 | 45 | 4300 | 4040 | 26,0 | 155 | 24.8 / 23.0 | 1,35 | 612 | 475 |
| FUTURA 2.4ft CLASS II PC 5200/840 | 50 | 5230 | 4920 | 30,3 | 162 | 23.3 / 21.6 | 2,35 | 1172 | 700 |
| FUTURA 2.4ft CLASS II PC 6400/840 | 50 | 6240 | 5870 | 36,3 | 162 | 24.0 / 22.2 | 2,35 | 1172 | 700 |
| FUTURA 2.4ft CLASS II PC 8800/840 | 45 | 8690 | 8170 | 49,7 | 164 | 25.1 / 23.4 | 2,35 | 1172 | 700 |
| FUTURA 2.5ft CLASS II PC 6500/840 | 50 | 6500 | 6110 | 37,1 | 165 | 23.3 / 21.6 | 2,85 | 1452 | 940 |
| FUTURA 2.5ft CLASS II PC 8000/840 | 50 | 7770 | 7300 | 44,4 | 164 | 24.0 / 22.2 | 2,85 | 1452 | 940 |
| FUTURA 2.5ft CLASS II PC 11000/840 | 45 | 12310 | 11570 | 71,1 | 163 | 25.6 / 23.9 | 2,85 | 1452 | 940 |

47560 FUTURA 2.2ft CLASS II PC 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 - 2×18W

47590 FUTURA 2.4ft CLASS II PC 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2×36W

47630 FUTURA 2.5ft CLASS II PC 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2×58W

FUTURA CLASS II PC

| Code | Type |
|-------|------------------------------------|
| 47550 | FUTURA 2.2ft CLASS II PC 2600/840 |
| 47560 | FUTURA 2.2ft CLASS II PC 3200/840 |
| 47570 | FUTURA 2.2ft CLASS II PC 4400/840 |
| 47580 | FUTURA 2.4ft CLASS II PC 5200/840 |
| 47590 | FUTURA 2.4ft CLASS II PC 6400/840 |
| 47600 | FUTURA 2.4ft CLASS II PC 8800/840 |
| 47620 | FUTURA 2.5ft CLASS II PC 6500/840 |
| 47630 | FUTURA 2.5ft CLASS II PC 8000/840 |
| 47640 | FUTURA 2.5ft CLASS II PC 11000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | 47554 | 47555 | x | x |
| x | x | 47564 | 47565 | x | x |
| x | x | 47574 | 47575 | x | x |
| 47581 | 47583 | 47584 | 47585 | 47586 | 47587 |
| 47591 | 47593 | 47594 | 47595 | 47596 | 47597 |
| 47601 | 47603 | 47604 | 47605 | 47606 | 47607 |
| 47621 | 47623 | 47624 | 47625 | 47626 | 47627 |
| 47631 | 47633 | 47634 | 47635 | 47636 | 47637 |
| 47641 | 47643 | 47644 | 47645 | 47646 | 47647 |

FUTURA CLASS II PCc

| Code | Type |
|-------|-------------------------------------|
| 47660 | FUTURA 2.2ft CLASS II PCc 2600/840 |
| 47670 | FUTURA 2.2ft CLASS II PCc 3200/840 |
| 47680 | FUTURA 2.2ft CLASS II PCc 4400/840 |
| 47690 | FUTURA 2.4ft CLASS II PCc 5200/840 |
| 47700 | FUTURA 2.4ft CLASS II PCc 6400/840 |
| 47710 | FUTURA 2.4ft CLASS II PCc 8800/840 |
| 47730 | FUTURA 2.5ft CLASS II PCc 6500/840 |
| 47740 | FUTURA 2.5ft CLASS II PCc 8000/840 |
| 47750 | FUTURA 2.5ft CLASS II PCc 11000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | 47664 | 47665 | x | x |
| x | x | 47674 | 47675 | x | x |
| x | x | 47684 | 47685 | x | x |
| 47691 | 47693 | 47694 | 47695 | 47696 | 47697 |
| 47701 | 47703 | 47704 | 47705 | 47706 | 47707 |
| 47711 | 47713 | 47714 | 47715 | 47716 | 47717 |
| 47731 | 47733 | 47734 | 47735 | 47736 | 47737 |
| 47741 | 47743 | 47744 | 47745 | 47746 | 47747 |
| 47751 | 47753 | 47754 | 47755 | 47756 | 47757 |

Example of type marking: 47717 = FUTURA 2.4ft CLASS II PCc 8800/840 **3F M3h**

FUTURA CLASS II PC DALI

| Code | Type |
|-------------|---|
| 47770 | FUTURA 2.2ft CLASS II PC 2600/840 DALI |
| 47780 | FUTURA 2.2ft CLASS II PC 3200/840 DALI |
| 47790 | FUTURA 2.2ft CLASS II PC 4400/840 DALI |
| 47800 | FUTURA 2.4ft CLASS II PC 5200/840 DALI |
| 47810 | FUTURA 2.4ft CLASS II PC 6400/840 DALI |
| 47820 | FUTURA 2.4ft CLASS II PC 8800/840 DALI |
| 47840 | FUTURA 2.5ft CLASS II PC 6500/840 DALI |
| 47850 | FUTURA 2.5ft CLASS II PC 8000/840 DALI |
| 47860 | FUTURA 2.5ft CLASS II PC 11000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| x | x | 47774 | 47775 | x | x |
| x | x | 47784 | 47785 | x | x |
| x | x | 47794 | 47795 | x | x |
| 47801 | 47803 | 47804 | 47805 | 47806 | 47807 |
| 47811 | 47813 | 47814 | 47815 | 47816 | 47817 |
| 47821 | 47823 | 47824 | 47825 | 47826 | 47827 |
| 47841 | 47843 | 47844 | 47845 | 47846 | 47847 |
| 47851 | 47853 | 47854 | 47855 | 47856 | 47857 |
| 47861 | 47863 | 47864 | 47865 | 47866 | 47867 |

FUTURA CLASS II PCc DALI

| Code | Type |
|-------------|--|
| 47880 | FUTURA 2.2ft CLASS II PCc 2600/840 DALI |
| 47890 | FUTURA 2.2ft CLASS II PCc 3200/840 DALI |
| 47900 | FUTURA 2.2ft CLASS II PCc 4400/840 DALI |
| 47910 | FUTURA 2.4ft CLASS II PCc 5200/840 DALI |
| 47920 | FUTURA 2.4ft CLASS II PCc 6400/840 DALI |
| 47930 | FUTURA 2.4ft CLASS II PCc 8800/840 DALI |
| 47950 | FUTURA 2.5ft CLASS II PCc 6500/840 DALI |
| 47960 | FUTURA 2.5ft CLASS II PCc 8000/840 DALI |
| 47970 | FUTURA 2.5ft CLASS II PCc 11000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| x | x | 47884 | 47885 | x | x |
| x | x | 47894 | 47895 | x | x |
| x | x | 47904 | 47905 | x | x |
| 47911 | 47913 | 47914 | 47915 | 47916 | 47917 |
| 47921 | 47923 | 47924 | 47925 | 47926 | 47927 |
| 47931 | 47933 | 47934 | 47935 | 47936 | 47937 |
| 47951 | 47953 | 47954 | 47955 | 47956 | 47957 |
| 47961 | 47963 | 47964 | 47965 | 47966 | 47967 |
| 47971 | 47973 | 47974 | 47975 | 47976 | 47977 |

Example of type marking: 47966 = FUTURA CLASS II 2.5ft PCc 8000/840 DALI **3F M1h****LEGEND**

| | |
|-----------------------------|---|
| CLASS II 1F | 1-phase 2 core through-wiring in the luminaire |
| CLASS II 3F | 3-phase 4 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination |
| CLASS II 3F Mxh | 3-phase 4 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |
| DALI | version with digital dimmable driver DALI |
| CLASS II DALI 1F | 1-phase 4 core through-wiring in the luminaire |
| CLASS II DALI 3F | 3-phase 6 core through-wiring in the luminaire |
| CLASS II DALI 3F Mxh | 3-phase 6 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**LIGHT FITTING DETAILED VIEW**

FUTURA CLASS II



STUCCHI 37xx



WIELAND

FUTURA MAX



BIM
ready

... for extreme temperatures -40 °C to +70 °C.

USE

The light fitting is suitable for indoor and outdoor spaces with roof with extreme ambient temperatures from **(-40 °C to +70 °C)**. The light fitting is destined mainly for heating stations, metallurgical lines, glass-works, as well as for freezers, cooling plants and other premises without danger of explosion of gases, dusts and flammable vapors.

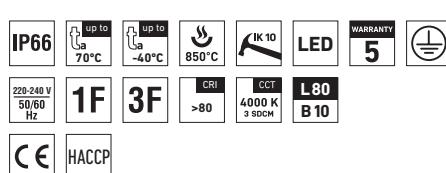
The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

[It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 367].

ADVANTAGES

- Light fitting protection **IP66**
- Minimum ambient temperature up to **t_a = -40 °C**
- Maximum ambient temperature up to **t_a = 70 °C**
- Lifetime: 50,000 hours / L80B10
- Possibility of using in even higher ambient temperatures under the condition of a shortened service life of the light fitting – parameters solved within a particular project
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate with Al coolers (PC Al) = high mechanical resistance

- Up to 45 % lower electricity consumption when compared to tubes T5
- Constant luminous flux even in ambient temperature of -40 °C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K
- Through-wiring of up to 10 wires at body
- Certification: HACCP



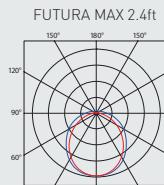
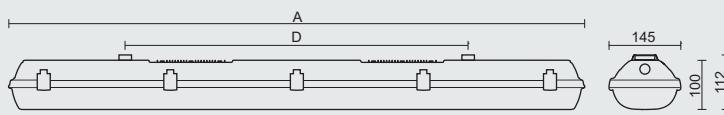
FUTURA MAX PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Minimum ambient temperature: $t_a = -40^\circ\text{C}$
- Maximum ambient temperature: $t_a = 70^\circ\text{C}$
- Lifetime: 50,000 hours / L80B10
- Possibility of using in even higher ambient temperatures under the condition of a shortened service life of the light fitting – parameters solved within a particular project
- Maximum system efficacy: 164 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate with Al coolers (PC Al), UV stable, impact-resistant

- Reflector: steel sheet, white colour (RAL 9003)
- Ventilation plug: type BVPB-01 made of polyamide, size M12 x 1.5
- Clips: stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 70^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate | | | | | | | | | |
| FUTURA 1.5ft MAX PCc Al 4000/840 | 70 | 3850 | 3620 | 23,3 | 155 | 21.5 / 19.9 | 3,05 | 1452 | 940 |
| FUTURA 1.5ft MAX PCc Al 5500/840 | 65 | 5340 | 5020 | 31,9 | 157 | 22.7 / 21.0 | 3,05 | 1452 | 940 |
| FUTURA 2.4ft MAX PCc Al 6400/840 | 65 | 6240 | 5870 | 36,3 | 162 | 24.0 / 22.2 | 2,65 | 1172 | 700 |
| FUTURA 2.4ft MAX PCc Al 8800/840 | 60 | 8690 | 8170 | 49,7 | 164 | 25.1 / 23.3 | 2,65 | 1172 | 700 |
| FUTURA 2.5ft MAX PCc Al 8000/840 | 65 | 7770 | 7300 | 44,4 | 164 | 24.0 / 22.3 | 3,15 | 1452 | 940 |
| FUTURA 2.5ft MAX PCc Al 11000/840 | 60 | 12310 | 11570 | 71,1 | 163 | 25.6 / 23.9 | 3,15 | 1452 | 940 |

FUTURA MAX PCc Al

Non-dimmable driver - stainless clips (c)

| Code | Type | 1F | 3F | M1h | M3h | DALI | DALI 3F |
|-------|-----------------------------------|-------|-------|-----|-----|-------|---------|
| 79820 | FUTURA 1.5ft MAX PCc Al 4000/840 | 79821 | 79823 | x | x | 79825 | 79826 |
| 79830 | FUTURA 1.5ft MAX PCc Al 5500/840 | 79831 | 79833 | x | x | 79835 | 79836 |
| 79840 | FUTURA 2.4ft MAX PCc Al 6400/840 | 79841 | 79843 | x | x | 79845 | 79846 |
| 79800 | FUTURA 2.4ft MAX PCc Al 8800/840 | 79801 | 79803 | x | x | 79805 | 79806 |
| 79850 | FUTURA 2.5ft MAX PCc Al 8000/840 | 79851 | 79853 | x | x | 79855 | 79856 |
| 79810 | FUTURA 2.5ft MAX PCc Al 11000/840 | 79811 | 79813 | x | x | 79815 | 79816 |

Example of type marking: 79813 = FUTURA MAX 2.5ft PCc Al 11000/840 3F

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

FUTURA MAX



FUTURA SNS



... dustproof, waterproof and impact-resistant.

USE

The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

(It is necessary to consider exhalation in the air which can reduce the usability of the plastic and aluminium at installations in an aggressive environment, see also page 367).

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate with Al coolers (PC Al) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- Current driver with the possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C

- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- With built-in **microwave motion sensor**
- The possibility of setting the sensor using the DIP switch
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 10 wires at body
- Certification: HACCP



FUTURA SNS PC AI, PCc AI



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 165 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate with Al coolers (PC AI), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)

- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or digital dimmable driver DALI
- Motion sensor: 360° range, switch on height 1 – 6 m, time range 5 sec – 30 min, switch-on sensitivity 2 – 50 lux

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 50^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate | | | | | | | | | |
| FUTURA 2.2ft SNS PC AI 2600/840 | 50 | 2600 | 2440 | 16,1 | 152 | 23,1 / 21,1 | 1,55 | 612 | 475 |
| FUTURA 2.2ft SNS PC AI 3200/840 | 50 | 3100 | 2910 | 19,1 | 152 | 23,8 / 21,8 | 1,55 | 612 | 475 |
| FUTURA 2.2ft SNS PC AI 4400/840 | 45 | 4300 | 4040 | 26,0 | 155 | 24,8 / 23,0 | 1,55 | 612 | 475 |
| FUTURA 2.4ft SNS PC AI 5200/840 | 50 | 5230 | 4920 | 30,3 | 162 | 23,3 / 21,6 | 2,55 | 1172 | 700 |
| FUTURA 2.4ft SNS PC AI 6400/840 | 50 | 6240 | 5870 | 36,3 | 162 | 24,0 / 22,2 | 2,55 | 1172 | 700 |
| FUTURA 2.4ft SNS PC AI 8800/840 | 45 | 8690 | 8170 | 49,7 | 164 | 25,1 / 23,4 | 2,55 | 1172 | 700 |
| FUTURA 2.4ft SNS PC AI 12800/840 | 35 | 13920 | 13080 | 82,5 | 159 | 26,7 / 24,9 | 2,75 | 1172 | 700 |
| FUTURA 2.5ft SNS PC AI 6500/840 | 50 | 6500 | 6110 | 37,1 | 165 | 23,3 / 21,6 | 3,05 | 1452 | 940 |
| FUTURA 2.5ft SNS PC AI 8000/840 | 50 | 7770 | 7300 | 44,4 | 164 | 24,0 / 22,2 | 3,05 | 1452 | 940 |
| FUTURA 2.5ft SNS PC AI 11000/840 | 45 | 12310 | 11570 | 71,1 | 163 | 25,6 / 23,9 | 3,05 | 1452 | 940 |
| FUTURA 2.5ft SNS PC AI 16000/840 | 35 | 17440 | 16390 | 102,2 | 160 | 26,7 / 25,0 | 3,35 | 1452 | 940 |

79050 FUTURA 2.4ft SNS PC AI 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 – 2×36W

79080 FUTURA 2.5ft SNS PC AI 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 – 2×58W

FUTURA SNS PC AI

| Code | Type |
|-------|----------------------------------|
| 79010 | FUTURA 2.2ft SNS PC AI 2600/840 |
| 79020 | FUTURA 2.2ft SNS PC AI 3200/840 |
| 79030 | FUTURA 2.2ft SNS PC AI 4400/840 |
| 79040 | FUTURA 2.4ft SNS PC AI 5200/840 |
| 79050 | FUTURA 2.4ft SNS PC AI 6400/840 |
| 79060 | FUTURA 2.4ft SNS PC AI 8800/840 |
| 79410 | FUTURA 2.4ft SNS PC AI 12800/840 |
| 79070 | FUTURA 2.5ft SNS PC AI 6500/840 |
| 79080 | FUTURA 2.5ft SNS PC AI 8000/840 |
| 79090 | FUTURA 2.5ft SNS PC AI 11000/840 |
| 79420 | FUTURA 2.5ft SNS PC AI 16000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | 79014 | x | x | x |
| x | x | 79024 | x | x | x |
| x | x | 79034 | x | x | x |
| 79140 | 79340 | 79044 | 79045 | 79344 | 79345 |
| 79150 | 79350 | 79054 | 79055 | 79354 | 79355 |
| 79160 | 79360 | 79064 | 79065 | 79364 | 79365 |
| 79411 | 79412 | x | x | x | x |
| 79170 | 79370 | 79074 | 79075 | 79374 | 79375 |
| 79180 | 79380 | 79084 | 79085 | 79384 | 79385 |
| 79190 | 79390 | 79094 | 79095 | 79394 | 79395 |
| 79421 | 79422 | x | x | x | x |

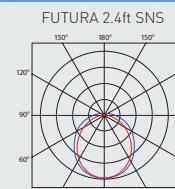
FUTURA SNS PCc AI

| Code | Type |
|-------|-----------------------------------|
| 79210 | FUTURA 2.2ft SNS PCc AI 2600/840 |
| 79220 | FUTURA 2.2ft SNS PCc AI 3200/840 |
| 79230 | FUTURA 2.2ft SNS PCc AI 4400/840 |
| 79240 | FUTURA 2.4ft SNS PCc AI 5200/840 |
| 79250 | FUTURA 2.4ft SNS PCc AI 6400/840 |
| 79260 | FUTURA 2.4ft SNS PCc AI 8800/840 |
| 79430 | FUTURA 2.4ft SNS PCc AI 12800/840 |
| 79270 | FUTURA 2.5ft SNS PCc AI 6500/840 |
| 79280 | FUTURA 2.5ft SNS PCc AI 8000/840 |
| 79290 | FUTURA 2.5ft SNS PCc AI 11000/840 |
| 79440 | FUTURA 2.5ft SNS PCc AI 16000/840 |

Non-dimmable driver - stainless clips [c]

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | 79214 | x | x | x |
| x | x | 79224 | x | x | x |
| x | x | 79234 | x | x | x |
| 79540 | 79640 | 79244 | 79245 | 79644 | 79645 |
| 79550 | 79650 | 79254 | 79255 | 79654 | 79655 |
| 79560 | 79660 | 79264 | 79265 | 79664 | 79665 |
| 79431 | 79432 | x | x | x | x |
| 79570 | 79670 | 79274 | 79275 | 79674 | 79675 |
| 79580 | 79680 | 79284 | 79285 | 79684 | 79685 |
| 79590 | 79690 | 79294 | 79295 | 79694 | 79695 |
| 79441 | 79442 | x | x | x | x |

Example of type marking: 79684 = FUTURA 2.5ft SNS PCc AI 8000/840 3F M1h



FUTURA SNS PC AI CORRIDOR

| Code | Type |
|-------------|---|
| 79043 | FUTURA 2.4ft SNS PC AI 5200/840 CORRIDOR |
| 79053 | FUTURA 2.4ft SNS PC AI 6400/840 CORRIDOR |
| 79063 | FUTURA 2.4ft SNS PC AI 8800/840 CORRIDOR |
| 79073 | FUTURA 2.5ft SNS PC AI 6500/840 CORRIDOR |
| 79083 | FUTURA 2.5ft SNS PC AI 8000/840 CORRIDOR |
| 79093 | FUTURA 2.5ft SNS PC AI 11000/840 CORRIDOR |

Digital dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| 79143 | 79343 | 79047 | 79049 | 79347 | 79349 |
| 79153 | 79353 | 79057 | 79059 | 79357 | 79359 |
| 79163 | 79363 | 79067 | 79069 | 79367 | 79369 |
| 79173 | 79373 | 79077 | 79079 | 79377 | 79379 |
| 79183 | 79383 | 79087 | 79089 | 79387 | 79389 |
| 79193 | 79393 | 79097 | 79099 | 79397 | 79399 |

FUTURA SNS PCc AI CORRIDOR

| Code | Type |
|-------------|--|
| 79243 | FUTURA 2.4ft SNS PCc AI 5200/840 CORRIDOR |
| 79253 | FUTURA 2.4ft SNS PCc AI 6400/840 CORRIDOR |
| 79263 | FUTURA 2.4ft SNS PCc AI 8800/840 CORRIDOR |
| 79273 | FUTURA 2.5ft SNS PCc AI 6500/840 CORRIDOR |
| 79283 | FUTURA 2.5ft SNS PCc AI 8000/840 CORRIDOR |
| 79293 | FUTURA 2.5ft SNS PCc AI 11000/840 CORRIDOR |

Digital dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-----------|-----------|------------|------------|---------------|---------------|
| 79543 | 79643 | 79247 | 79249 | 79647 | 79649 |
| 79553 | 79653 | 79257 | 79259 | 79657 | 79659 |
| 79563 | 79663 | 79267 | 79269 | 79667 | 79669 |
| 79573 | 79673 | 79277 | 79279 | 79677 | 79679 |
| 79583 | 79683 | 79287 | 79289 | 79687 | 79689 |
| 79593 | 79693 | 79297 | 79299 | 79697 | 79699 |

Example of type marking: 79687 = FUTURA 2.5ft SNS PCc AI 8000/840 CORRIDOR **3F M1h****LEGEND****SNS 1F**

1-phase 3 core through-wiring in the luminaire for connection of max. 5 slave luminaires

SNS 3F

3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor connected to L3)

M1h

emergency back-up source with 1 hour operating time for maintained emergency illumination

M3h

emergency back-up source with 3 hour operating time for maintained emergency illumination

SNS 3F Mxh

3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor and emergency unit connected to L3)

CORRIDOR

version with digital dimmable driver DALI and set corridor function

CORRIDOR 1F

1-phase 5 core through-wiring in the luminaire for connection of max. 20 luminaires

CORRIDOR 3F

3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L3)

CORRIDOR 3F Mxh

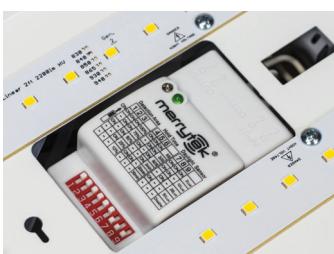
3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor and emergency unit connected to L3)

LIGHT FITTING ATTACHMENT

a) Directly to a ceiling or a wall with the use of screws and stainless brackets

b) Suspension with the use of stainless hooks

c) Attachment with the use of side hangers to the wall - is not included in accessories

**LIGHT FITTING DETAILED VIEW****FUTURA SNS**

Through-wiring cables

Additional furnishing of 1 phase, 3 phase or multi-phase through-wiring in the body to the light fitting.



| Code | Type | Description | Weight [kg] |
|-------|---------|---|-------------|
| 11995 | Z1F-2.4 | 1 phase cables for through-wiring at body 2.4ft | 0,1 |
| 11996 | Z1F-2.5 | 1 phase cables for through-wiring at body 2.5ft | 0,1 |



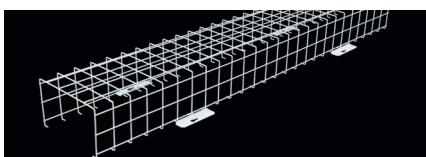
| Code | Type | Description | Weight [kg] |
|-------|---------|---|-------------|
| 11997 | Z3F-2.4 | 3 phase cables for through-wiring at body 2.4ft | 0,1 |
| 11998 | Z3F-2.5 | 3 phase cables for through-wiring at body 2.5ft | 0,1 |



| Code | Type | Description | Weight [kg] |
|-------|-----------|--|-------------|
| 11987 | Z2x3F-2.4 | 2x 3 phase cables for through-wiring at body 2.4ft | 0,1 |
| 11988 | Z2x3F-2.5 | 2x 3 phase cables for through-wiring at body 2.5ft | 0,1 |

OM – protective grid

The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws. The surface is treated with the RAL 9003 powder-coated colour.



| Code | Type | Description | Weight [kg] |
|-------|--------|---|-------------|
| 11941 | OM 218 | protective grid for types 218, 214/224, 2.2ft (700×220×130 mm) | 1,0 |
| 11942 | OM 236 | protective grid for types 236, 228/254, 2.4ft (1300×220×130 mm) | 1,7 |
| 11943 | OM 258 | protective grid for types 258, 235/249/280, 2.5ft (1600×220×130 mm) | 2,0 |

BZ – side hanger

It serves to attach the light fitting to the wall with the possibility of its positioning.



| Code | Type | Description | Weight [kg] |
|-------|------|---|-------------|
| 90002 | BZ | side hanger with blocking (set for 1 light fitting) | 0,4 |

Canalis busbar system connector

The connector enables a quick 1 phase or 3 phase interconnection of light fittings without their opening.



| Code | Type | Description | Weight [kg] |
|-------|--------------|---|-------------|
| 79001 | KBA 40 ZU | light fitting suspended holder - Canalis KBA system | 0,1 |
| 70002 | KBC 10 CC211 | connector with 1 m cable - Canalis KBA system | 0,2 |

Locking set for bracket G3

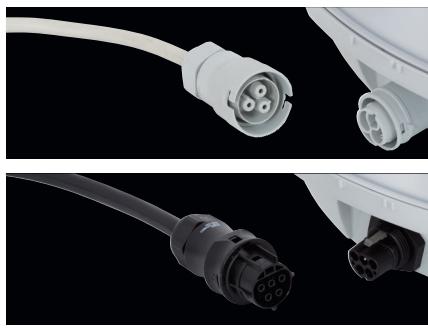
| Code | Type | Description | Weight [kg] |
|-------|--------|---|-------------|
| 11553 | G3 SET | a locking set for G3 stainless steel bracket (bolts, nuts, washers) | 0,2 |

Light fitting inputs

The version with four inputs in the body side for types 2.4ft and 2.5ft can be made-to-order.

**Stucchi or Wieland connector**

The connector enables a quick 1 phase or 3 phase interconnection of light fittings without their opening.



FROST



INDUSTRIAL
PLASTIC
DUSTPROOF
WATERPROOF
FROSTPROOF
IMPACT-RESISTANT

FROST – industrial plastic LED light fitting

FROST
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IP66

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FROST PLUS
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IP66

FROST PLUS
page 177



BIM ready
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EUROPEAN UNION
EUROPEAN REGIONAL DEVELOPMENT FUND
INVESTMENT IN YOUR FUTURE

FROST



... for cold stores and freezing facilities with temperatures down to -25 °C

USE

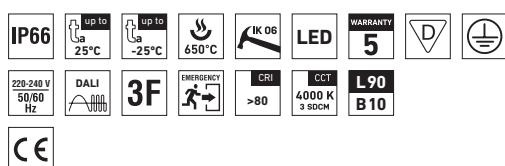
Temperatures of chilled foods range from 0–5 degrees, whilst in freezing facilities can drop up to -25 degrees Celsius. Suitable luminaires for such demanding environments must handle extreme low temperatures, withstand condensation and vapors, have low maintenance and long service life to keep costs low.

Our lighting fixture for freezing storage and chilled storage surroundings is made of ABS material, is weather-proofed and chemically resistant (IP66 and IK 06).

FROST provide with high quality and good solution enduring a long service life of 50 000 hours.

ADVATAGES

- Light fitting protection IP66
- Minimum ambient temperature down to $t_a = -25^{\circ}\text{C}$
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate (AC), UV stable, chemically resistant
- Body: dark grey ABS, UV stable, chemically resistant
- Constant luminous flux even in ambient temperatures up to -25 °C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K
- It can be delivered in dimmable or emergency version
- Through-wiring of up to 5 wires at body
- Certification: CE



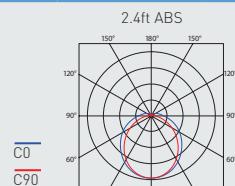
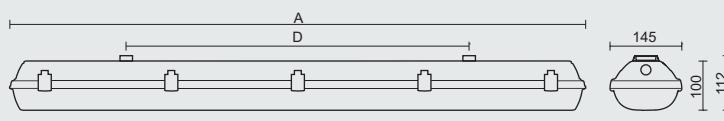
FROST



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Minimum ambient temperature: $t_a = -25^{\circ}\text{C}$, Maximum ambient temperature: $t_a = 25^{\circ}\text{C}$ (version with emergency back-up source for 3 hours; M3h)
- Maximum system efficacy: 154 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate (AC), UV stable, chemically resistant
- Body: dark grey ABS, UV stable, chemically resistant

- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15% glass fibre
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10% glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver



| Type | Min. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature down to $t_a = 25^{\circ}\text{C}$ - body: dark grey - diffuser: translucent acrylate | | | | | | | | | |
| FROST 2.4ft 5200/840 | -25 | 5230 | 4600 | 30,3 | 152 | 23.4 / 22.1 | 2,25 | 1172 | 700 |
| FROST 2.4ft 6400/840 | -25 | 6240 | 5490 | 36,3 | 151 | 24.0 / 22.7 | 2,25 | 1172 | 700 |
| FROST 2.4ft 8800/840 | -25 | 8690 | 7650 | 49,7 | 154 | 25.2 / 23.9 | 2,25 | 1172 | 700 |
| FROST 2.5ft 6500/840 | -25 | 6500 | 5720 | 37,1 | 154 | 23.4 / 22.1 | 2,75 | 1452 | 940 |
| FROST 2.5ft 8000/840 | -25 | 7770 | 6840 | 44,4 | 154 | 24.0 / 22.7 | 2,75 | 1452 | 940 |
| FROST 2.5ft 11000/840 | -25 | 12310 | 10830 | 71,1 | 152 | 25.6 / 24.3 | 2,75 | 1452 | 940 |

Battery heating consumption 10W

FROST

Non-dimmable driver - plastic clips

| Code Type | 3F | M3h | 3F M3h |
|------------------------------|--------|--------|--------|
| 103094 FROST 2.4ft 5200/840 | 103100 | 103106 | 103112 |
| 103095 FROST 2.4ft 6400/840 | 103101 | 103107 | 103113 |
| 103096 FROST 2.4ft 8800/840 | 103102 | 103108 | 103114 |
| 103097 FROST 2.5ft 6500/840 | 103103 | 103109 | 103115 |
| 103098 FROST 2.5ft 8000/840 | 103104 | 103110 | 103116 |
| 103099 FROST 2.5ft 11000/840 | 103105 | 103111 | 103117 |

LEGEND

| | | | |
|---------------|---|--------------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire | DALI | version with digital dimmable driver DALI |
| 3F | 3-phase 5 core through-wiring in the luminaire | DALI 1F | 1-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination | DALI 3F | 3-phase 7 core through-wiring in the luminaire |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination | DALI 3F Mxh | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire | | |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**LIGHT FITTING DETAILED VIEW**

FROST



FROST PLUS



... for cold stores and freezing facilities with temperatures down up to -40 °C

USE

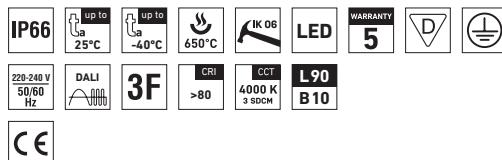
Temperatures of chilled foods range from 0–5 degrees, whilst in freezing facilities can drop up to –40 degrees Celsius. Suitable luminaires for such demanding environments must handle extreme low temperatures, withstand condensation and vapors, have low maintenance and long service life to keep costs low.

Our lighting fixture for freezing storage and chilled storage surroundings is made of ABS material, is weather-proofed and chemically resistant (IP66 and IK 06).

FROST PLUS provide with high quality and good solution enduring a long service life of 50 000 hours.

ADVATAGES

- Light fitting protection IP66
- Minimum ambient temperature down to $t_a = -40^{\circ}\text{C}$
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate (AC), UV stable, chemically resistant
- Body: dark grey ABS, UV stable, chemically resistant
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K
- It can be delivered in dimmable version
- Through-wiring of up to 5 wires at body
- Certification: CE



FROST PLUS



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Minimum ambient temperature: $t_a = -40 \text{ }^{\circ}\text{C}$
- Maximum ambient temperature: $t_a = 0-25 \text{ }^{\circ}\text{C}$
- Maximum system efficacy: 154 lm/W
- The watt and lumen values can vary by $\pm 7,5 \%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate (AC), UV stable, chemically resistant
- Body: dark grey ABS, UV stable, chemically resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15% glass fibre

- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10% glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver

| Type | Min. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] D [mm] | |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|---------------|-----|
| | | | | | | | | A | D |
| For ambient temperature down to $t_a = 25 \text{ }^{\circ}\text{C}$ - body: dark grey - diffuser: translucent acrylate | | | | | | | | | |
| FROST PLUS 2.4ft 5200/840 | -40 | 5230 | 4600 | 30,3 | 152 | 23.4 / 22.1 | 2,25 | 1172 | 700 |
| FROST PLUS 2.4ft 6400/840 | -40 | 6240 | 5490 | 36,3 | 151 | 24.0 / 22.7 | 2,25 | 1172 | 700 |
| FROST PLUS 2.4ft 8800/840 | -40 | 8690 | 7650 | 49,7 | 154 | 25.2 / 23.9 | 2,25 | 1172 | 700 |
| FROST PLUS 2.5ft 6500/840 | -40 | 6500 | 5720 | 37,1 | 154 | 23.4 / 22.1 | 2,75 | 1452 | 940 |
| FROST PLUS 2.5ft 8000/840 | -40 | 7770 | 6840 | 44,4 | 154 | 24.0 / 22.7 | 2,75 | 1452 | 940 |
| FROST PLUS 2.5ft 11000/840 | -40 | 12310 | 10830 | 71,1 | 152 | 25.6 / 24.3 | 2,75 | 1452 | 940 |

Battery heating consumption 10W

FROST PLUS

Non-dimmable driver - plastic clips

| Code | Type | 3F |
|--------|----------------------------|--------|
| 103122 | FROST PLUS 2.4ft 5200/840 | 103128 |
| 103123 | FROST PLUS 2.4ft 6400/840 | 103129 |
| 103124 | FROST PLUS 2.4ft 8800/840 | 103130 |
| 103125 | FROST PLUS 2.5ft 6500/840 | 103131 |
| 103126 | FROST PLUS 2.5ft 8000/840 | 103132 |
| 103127 | FROST PLUS 2.5ft 11000/840 | 103133 |

LEGEND

| | |
|---------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire |
| 3F | 3-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |

| | |
|--------------------|--|
| DALI | version with digital dimmable driver DALI |
| DALI 1F | 1-phase 5 core through-wiring in the luminaire |
| DALI 3F | 3-phase 7 core through-wiring in the luminaire |
| DALI 3F Mxh | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**LIGHT FITTING DETAILED VIEW**

FROST PLUS



MIDDLE EAST Ta 55



INDUSTRIAL
PLASTIC
DUSTPROOF
WATERPROOF
HEAT RESISTANT
IMPACT-RESISTANT



MIDLLE EAST Ta 55 – industrial plastic LED light fitting

MIDLLE EAST Ta 55
page 182



IP66

MIDLLE EAST Ta 55
page 182



BIM ready
www.bim.lighting/en



EUROPEAN UNION
EUROPEAN REGIONAL DEVELOPMENT FUND
INVESTMENT IN YOUR FUTURE

MIDDLE EAST Ta 55



... for high temperature.

USE

The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

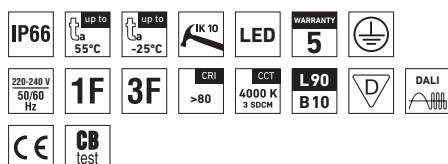
The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

It is necessary to consider exhalation in the air which can reduce the usability of the plastic at installations in an aggressive environment.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **$t_a = 55^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- ABS - on request
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- Constant luminous flux even in ambient tem-

- perature of -25°C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K
- Through-wiring of up to 7 wires at bodies of 1.4ft and 1.5ft type light fittings



MIDDLE EAST Ta 55 PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 55^\circ\text{C}$
- Maximum system efficacy: 141 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide

- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver, DALI driver.

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | Dimensions | |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|------------|--------|
| | | | | | | | | A [mm] | D [mm] |
| For ambient temperature $t_a = 55^\circ\text{C}$ - body: grey polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | |
| MIDDLE EAST Ta 55 1.2ft PC 2200/840 | 55 | 2360 | 2220 | 15,7 | 141 | 22.8 / 20.8 | 1,3 | 612 | 475 |
| MIDDLE EAST Ta 55 1.2ft PC 3200/840 | 55 | 3350 | 3150 | 22,8 | 138 | 24.1 / 22.0 | 1,3 | 612 | 475 |
| MIDDLE EAST Ta 55 1.4ft PC 4400/840 | 55 | 4720 | 4440 | 31,4 | 141 | 23.1 / 21.2 | 1,9 | 1172 | 700 |
| MIDDLE EAST Ta 55 1.4ft PC 6400/840 | 55 | 6580 | 6190 | 43,8 | 141 | 24.2 / 22.4 | 1,9 | 1172 | 700 |
| MIDDLE EAST Ta 55 1.5ft PC 5500/840 | 55 | 5740 | 5400 | 38,3 | 141 | 22.9 / 21.2 | 2,3 | 1452 | 940 |
| MIDDLE EAST Ta 55 1.5ft PC 8000/840 | 55 | 8030 | 7550 | 54,3 | 139 | 24.1 / 22.3 | 2,3 | 1452 | 940 |

MIDDLE EAST Ta 55 PC

plastic clips

| Code | Type |
|-------|-------------------------------------|
| 51510 | MIDDLE EAST Ta 55 1.2ft PC 2200/840 |
| 51515 | MIDDLE EAST Ta 55 1.2ft PC 3200/840 |
| 51520 | MIDDLE EAST Ta 55 1.4ft PC 4400/840 |
| 51525 | MIDDLE EAST Ta 55 1.4ft PC 6400/840 |
| 51530 | MIDDLE EAST Ta 55 1.5ft PC 5500/840 |
| 51535 | MIDDLE EAST Ta 55 1.5ft PC 8000/840 |

| 1F | 3F | DALI |
|-------|-------|-------|
| x | x | |
| x | x | 51524 |
| 51521 | 51522 | 51523 |
| 51526 | 51527 | 51533 |
| 51531 | 51532 | 51528 |
| 51536 | 51537 | 51538 |

MIDDLE EAST Ta 55 PCc

stainless clips (c)

| Code | Type |
|-------|--------------------------------------|
| 51540 | MIDDLE EAST Ta 55 1.2ft PCc 2200/840 |
| 51545 | MIDDLE EAST Ta 55 1.2ft PCc 3200/840 |
| 51550 | MIDDLE EAST Ta 55 1.4ft PCc 4400/840 |
| 51555 | MIDDLE EAST Ta 55 1.4ft PCc 6400/840 |
| 51560 | MIDDLE EAST Ta 55 1.5ft PCc 5500/840 |
| 51565 | MIDDLE EAST Ta 55 1.5ft PCc 8000/840 |

| 1F | 3F | DALI |
|-------|-------|-------|
| x | x | |
| x | x | 51529 |
| 51551 | 51552 | 51553 |
| 51556 | 51557 | 51563 |
| 51561 | 51562 | 51558 |
| 51566 | 51567 | 51568 |

Example of type marking: 51567 = MIDDLE EAST Ta 55 1.5ft PCc 8000/840 3F

LEGEND

1F – 1 phase wiring cables for through-wiring

3F – 3 phase wiring cables for through-wiring

DALI – version with digital dimmable driver DALI

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

MIDDLE EAST Ta 55





PRIMA LED



INDUSTRIAL
PLASTIC
DUSTPROOF
WATERPROOF
IMPACT-RESISTANT



PRIMA LED – industrial plastic LED light fitting

| | | | |
|--|---|--|---|
| PRIMA LED page 188 |  | PRIMA LED TUBE SLIM page 214 |  |
| IP66 | PRIMA LED PC, PCc page 188 | IP66 | PRIMA LED TUBE SLIM page 214 |
| PRIMA LED FOR OUTDOOR SPACES page 191 |  | PRIMA LED ACCESSORIES page 217 |  |
| IP66 | PRIMA LED VP, VPc page 191 | | PRIMA LED ACCESSORIES page 217 |
| PRIMA LED - CHEMICALLY RESISTANT VERSION page 194 |  | | |
| IP66 | PRIMA LED ABS, ABSc page 194 | | |
| PRIMA LED CLASS II INSULATION page 197 |  | PRIMA LED CLASS II page 197 | |
| IP66 | | | |
| PRIMA LED TRS page 200 |  | PRIMA LED TRS page 200 | |
| IP66 | | | |
| PRIMA LED FOR EXTREME TEMPERATURES page 203 |  | PRIMA LED MAX PCc page 203 | |
| IP66 | | | |
| PRIMA LED WITH MOTION DETECTOR page 205 |  | PRIMA LED SNS PC, SNS PCc page 205 | |
| IP66 | | | |
| PRIMA LED FOR ENVIRON- MENT WITH A DANGER OF EXPLOSION page 208 |  | PRIMA LED Ex PCc page 208 | |
| IP66 | | | |
| PRIMA LED TUBE page 211 |  | PRIMA LED TUBE page 211 | |
| IP66 | | | |


BIM ready
www.bim.lighting/en

PRIMA LED



... dustproof, waterproof and impact-resistant.

USE

The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

(It is necessary to consider exhalation in the air which can reduce the usability of the plastic at installations in an aggressive environment, see also page 367).

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **$t_a = 45^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25°C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Certification: ESČ, ENEC, CB, HACCP



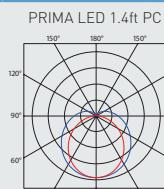
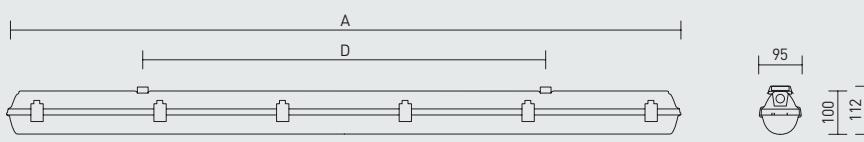
PRIMA LED PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 156 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate (PC), UV stable, impact-resistant

- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5, or rubber (SBS)
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, five-pole (basic version), or screwed
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI



| Type | Max. ambient temperature $t_a = 45^\circ\text{C}$ - body: grey polycarbonate - diffuser: translucent polycarbonate | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|-----------------------------|--|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| PRIMA LED 1.2ft PC 1300/840 | 45 | 1310 | 1170 | 8,2 | 143 | 22.0 / 18.8 | 1,0 | 662 | 350 |
| PRIMA LED 1.2ft PC 1600/840 | 45 | 1560 | 1390 | 9,8 | 142 | 22.6 / 19.4 | 1,0 | 662 | 350 |
| PRIMA LED 1.2ft PC 2200/840 | 40 | 2140 | 1900 | 13,2 | 144 | 23.6 / 20.5 | 1,0 | 662 | 350 |
| PRIMA LED 1.4ft PC 2600/840 | 45 | 2600 | 2310 | 16,1 | 143 | 22.1 / 19.1 | 1,8 | 1272 | 700 |
| PRIMA LED 1.4ft PC 3200/840 | 45 | 3100 | 2760 | 19,1 | 145 | 22.7 / 19.7 | 1,8 | 1272 | 700 |
| PRIMA LED 1.4ft PC 4400/840 | 40 | 4300 | 3830 | 26,0 | 147 | 23.8 / 20.9 | 1,8 | 1272 | 700 |
| PRIMA LED 1.4ft PC 6400/840 | 40 | 6120 | 5450 | 36,1 | 151 | 25.1 / 22.1 | 1,8 | 1272 | 700 |
| PRIMA LED 1.5ft PC 3250/840 | 45 | 3240 | 2880 | 19,5 | 148 | 22.1 / 19.2 | 2,1 | 1572 | 940 |
| PRIMA LED 1.5ft PC 4000/840 | 45 | 3850 | 3430 | 23,3 | 147 | 22.7 / 19.8 | 2,1 | 1572 | 940 |
| PRIMA LED 1.5ft PC 5500/840 | 40 | 5340 | 4750 | 31,9 | 149 | 23.9 / 20.9 | 2,1 | 1572 | 940 |
| PRIMA LED 1.5ft PC 8000/840 | 40 | 7780 | 6920 | 44,3 | 156 | 25.2 / 22.2 | 2,1 | 1572 | 940 |

65020 PRIMA LED 1.2ft PC 1600/840 = suitable replacement for T8 fl. tube light fitting PRIMA 118 - 1x18W

65050 PRIMA LED 1.4ft PC 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 136 - 1x36W

65460 PRIMA LED 1.4ft PC 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2x36W

65080 PRIMA LED 1.5ft PC 4000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 158 - 1x58W

65490 PRIMA LED 1.5ft PC 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2x58W

PRIMA LED PC

| Code | Type |
|-------|-----------------------------|
| 65010 | PRIMA LED 1.2ft PC 1300/840 |
| 65020 | PRIMA LED 1.2ft PC 1600/840 |
| 65030 | PRIMA LED 1.2ft PC 2200/840 |
| 65040 | PRIMA LED 1.4ft PC 2600/840 |
| 65050 | PRIMA LED 1.4ft PC 3200/840 |
| 65060 | PRIMA LED 1.4ft PC 4400/840 |
| 65460 | PRIMA LED 1.4ft PC 6400/840 |
| 65070 | PRIMA LED 1.5ft PC 3250/840 |
| 65080 | PRIMA LED 1.5ft PC 4000/840 |
| 65090 | PRIMA LED 1.5ft PC 5500/840 |
| 65490 | PRIMA LED 1.5ft PC 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 65140 | 65340 | 65044 | 65045 | 65344 | 65345 |
| 65150 | 65350 | 65054 | 65055 | 65354 | 65355 |
| 65160 | 65360 | 65064 | 65065 | 65364 | 65365 |
| 65461 | 65462 | x | x | x | x |
| 65170 | 65370 | 65074 | 65075 | 65374 | 65375 |
| 65180 | 65380 | 65084 | 65085 | 65384 | 65385 |
| 65190 | 65390 | 65094 | 65095 | 65394 | 65395 |
| 65491 | 65492 | x | x | x | x |

PRIMA LED PCc

| Code | Type |
|-------|------------------------------|
| 65210 | PRIMA LED 1.2ft PCc 1300/840 |
| 65220 | PRIMA LED 1.2ft PCc 1600/840 |
| 65230 | PRIMA LED 1.2ft PCc 2200/840 |
| 65240 | PRIMA LED 1.4ft PCc 2600/840 |
| 65250 | PRIMA LED 1.4ft PCc 3200/840 |
| 65260 | PRIMA LED 1.4ft PCc 4400/840 |
| 65760 | PRIMA LED 1.4ft PCc 6400/840 |
| 65270 | PRIMA LED 1.5ft PCc 3250/840 |
| 65280 | PRIMA LED 1.5ft PCc 4000/840 |
| 65290 | PRIMA LED 1.5ft PCc 5500/840 |
| 65790 | PRIMA LED 1.5ft PCc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 65540 | 65640 | 65244 | 65245 | 65644 | 65645 |
| 65550 | 65650 | 65254 | 65255 | 65654 | 65655 |
| 65560 | 65660 | 65264 | 65265 | 65664 | 65665 |
| 65761 | 65762 | x | x | x | x |
| 65570 | 65670 | 65274 | 65275 | 65674 | 65675 |
| 65580 | 65680 | 65284 | 65285 | 65684 | 65685 |
| 65590 | 65690 | 65294 | 65295 | 65694 | 65695 |
| 65791 | 65792 | x | x | x | x |

Example of type marking: 65644 = PRIMA LED 1.4ft PCc 2600/840 **3F M1h**

PRIMA LED PC DALI

| Code | Type |
|-------|----------------------------------|
| 65013 | PRIMA LED 1.2ft PC 1300/840 DALI |
| 65023 | PRIMA LED 1.2ft PC 1600/840 DALI |
| 65033 | PRIMA LED 1.2ft PC 2200/840 DALI |
| 65043 | PRIMA LED 1.4ft PC 2600/840 DALI |
| 65053 | PRIMA LED 1.4ft PC 3200/840 DALI |
| 65063 | PRIMA LED 1.4ft PC 4400/840 DALI |
| 65860 | PRIMA LED 1.4ft PC 6400/840 DALI |
| 65073 | PRIMA LED 1.5ft PC 3250/840 DALI |
| 65083 | PRIMA LED 1.5ft PC 4000/840 DALI |
| 65093 | PRIMA LED 1.5ft PC 5500/840 DALI |
| 65890 | PRIMA LED 1.5ft PC 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 65143 | 65343 | 65047 | 65048 | 65347 | 65348 |
| 65153 | 65353 | 65057 | 65058 | 65357 | 65358 |
| 65163 | 65363 | 65067 | 65068 | 65367 | 65368 |
| 65861 | 65862 | x | x | x | x |
| 65173 | 65373 | 65077 | 65078 | 65377 | 65378 |
| 65183 | 65383 | 65087 | 65088 | 65387 | 65388 |
| 65193 | 65393 | 65097 | 65098 | 65397 | 65398 |
| 65891 | 65892 | x | x | x | x |

PRIMA LED PCc DALI

| Code | Type |
|-------|-----------------------------------|
| 65213 | PRIMA LED 1.2ft PCc 1300/840 DALI |
| 65223 | PRIMA LED 1.2ft PCc 1600/840 DALI |
| 65233 | PRIMA LED 1.2ft PCc 2200/840 DALI |
| 65243 | PRIMA LED 1.4ft PCc 2600/840 DALI |
| 65253 | PRIMA LED 1.4ft PCc 3200/840 DALI |
| 65263 | PRIMA LED 1.4ft PCc 4400/840 DALI |
| 65960 | PRIMA LED 1.4ft PCc 6400/840 DALI |
| 65273 | PRIMA LED 1.5ft PCc 3250/840 DALI |
| 65283 | PRIMA LED 1.5ft PCc 4000/840 DALI |
| 65293 | PRIMA LED 1.5ft PCc 5500/840 DALI |
| 65990 | PRIMA LED 1.5ft PCc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 65543 | 65643 | 65247 | 65248 | 65647 | 65648 |
| 65553 | 65653 | 65257 | 65258 | 65657 | 65658 |
| 65563 | 65663 | 65267 | 65268 | 65667 | 65668 |
| 65961 | 65962 | x | x | x | x |
| 65573 | 65673 | 65277 | 65278 | 65677 | 65678 |
| 65583 | 65683 | 65287 | 65288 | 65687 | 65688 |
| 65593 | 65693 | 65297 | 65298 | 65697 | 65698 |
| 65991 | 65992 | x | x | x | x |

Example of type marking: 65693 = PRIMA LED 1.5ft PCc 5500/840 DALI **3F**

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
 b) Suspension with the use of stainless hooks
 c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA LED



PRIMA LED VP



... for outdoor spaces.

USE

The light fitting is suitable for the installation in outdoor spaces with shelter. It is equipped with a ventilation plug made of polyamide which eliminates the presence of condensation fumes and underpressure in the light fitting caused by ambient temperature fluctuations.

The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

(It is necessary to consider exhalation in the air which can reduce the usability of the plastic at installations in an aggressive environment, see also page 367).

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 45°C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model – CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Certification: ESČ, ENEC, CB, HACCP



PRIMA LED VP, VPc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ [version with emergency back-up source for 1 or 3 hours; M1h, M3h]
- Maximum system efficacy: 156 lm/W
- The watt and lumen values can vary by $\pm 7.5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate (PC), UV stable, impact-resistant

- Reflector: steel sheet, white colour (RAL 9003)
- Ventilation plug: type BVPB-01 made of polyamide, size M12 x 1.5
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5, or rubber (SBS)
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, five-pole (basic version), or screwed
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | | D [mm] | |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|-----|--------|-----|
| | | | | | | | | A | D | 95 | 100 |
| For ambient temperature $t_a = 45^\circ\text{C}$ - body: grey polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | | | |
| PRIMA LED 1.2ft VP 1300/840 | 45 | 1310 | 1170 | 8,2 | 143 | 22.0 / 18.8 | 1,0 | 662 | 350 | | |
| PRIMA LED 1.2ft VP 1600/840 | 45 | 1560 | 1390 | 9,8 | 142 | 22.6 / 19.4 | 1,0 | 662 | 350 | | |
| PRIMA LED 1.2ft VP 2200/840 | 40 | 2140 | 1900 | 13,2 | 144 | 23.6 / 20.5 | 1,0 | 662 | 350 | | |
| PRIMA LED 1.4ft VP 2600/840 | 45 | 2600 | 2310 | 16,1 | 143 | 22.1 / 19.1 | 1,8 | 1272 | 700 | | |
| PRIMA LED 1.4ft VP 3200/840 | 45 | 3100 | 2760 | 19,1 | 145 | 22.7 / 19.7 | 1,8 | 1272 | 700 | | |
| PRIMA LED 1.4ft VP 4400/840 | 40 | 4300 | 3830 | 26,0 | 147 | 23.8 / 20.9 | 1,8 | 1272 | 700 | | |
| PRIMA LED 1.4ft VP 6400/840 | 40 | 6120 | 5450 | 36,1 | 151 | 25.1 / 22.1 | 1,8 | 1272 | 700 | | |
| PRIMA LED 1.5ft VP 3250/840 | 45 | 3240 | 2880 | 19,5 | 148 | 22.1 / 19.2 | 2,1 | 1572 | 940 | | |
| PRIMA LED 1.5ft VP 4000/840 | 45 | 3850 | 3430 | 23,3 | 147 | 22.7 / 19.8 | 2,1 | 1572 | 940 | | |
| PRIMA LED 1.5ft VP 5500/840 | 40 | 5340 | 4750 | 31,9 | 149 | 23.9 / 20.9 | 2,1 | 1572 | 940 | | |
| PRIMA LED 1.5ft VP 8000/840 | 40 | 7780 | 6920 | 44,3 | 156 | 25.2 / 22.2 | 2,1 | 1572 | 940 | | |

66020 PRIMA LED 1.2ft VP 1600/840 = suitable replacement for T8 fl. tube light fitting PRIMA 118 - 1x18W

66050 PRIMA LED 1.4ft VP 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 136 - 1x36W

66460 PRIMA LED 1.4ft VP 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2x36W

66080 PRIMA LED 1.5ft VP 4000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 158 - 1x58W

66490 PRIMA LED 1.5ft VP 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2x58W

PRIMA LED VP

| Code | Type |
|-------|-----------------------------|
| 66010 | PRIMA LED 1.2ft VP 1300/840 |
| 66020 | PRIMA LED 1.2ft VP 1600/840 |
| 66030 | PRIMA LED 1.2ft VP 2200/840 |
| 66040 | PRIMA LED 1.4ft VP 2600/840 |
| 66050 | PRIMA LED 1.4ft VP 3200/840 |
| 66060 | PRIMA LED 1.4ft VP 4400/840 |
| 66460 | PRIMA LED 1.4ft VP 6400/840 |
| 66070 | PRIMA LED 1.5ft VP 3250/840 |
| 66080 | PRIMA LED 1.5ft VP 4000/840 |
| 66090 | PRIMA LED 1.5ft VP 5500/840 |
| 66490 | PRIMA LED 1.5ft VP 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 66140 | 66340 | 66044 | 66045 | 66344 | 66345 |
| 66150 | 66350 | 66054 | 66055 | 66354 | 66355 |
| 66160 | 66360 | 66064 | 66065 | 66364 | 66365 |
| 66461 | 66462 | x | x | x | x |
| 66170 | 66370 | 66074 | 66075 | 66374 | 66375 |
| 66180 | 66380 | 66084 | 66085 | 66384 | 66385 |
| 66190 | 66390 | 66094 | 66095 | 66394 | 66395 |
| 66491 | 66492 | x | x | x | x |

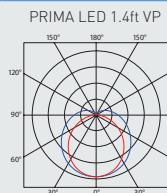
PRIMA LED VPc

| Code | Type |
|-------|------------------------------|
| 66210 | PRIMA LED 1.2ft VPc 1300/840 |
| 66220 | PRIMA LED 1.2ft VPc 1600/840 |
| 66230 | PRIMA LED 1.2ft VPc 2200/840 |
| 66240 | PRIMA LED 1.4ft VPc 2600/840 |
| 66250 | PRIMA LED 1.4ft VPc 3200/840 |
| 66260 | PRIMA LED 1.4ft VPc 4400/840 |
| 66760 | PRIMA LED 1.4ft VPc 6400/840 |
| 66270 | PRIMA LED 1.5ft VPc 3250/840 |
| 66280 | PRIMA LED 1.5ft VPc 4000/840 |
| 66290 | PRIMA LED 1.5ft VPc 5500/840 |
| 66790 | PRIMA LED 1.5ft VPc 8000/840 |

Non-dimmable driver - stainless clips [c]

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 66540 | 66640 | 66244 | 66245 | 66644 | 66645 |
| 66550 | 66650 | 66254 | 66255 | 66654 | 66655 |
| 66560 | 66660 | 66264 | 66265 | 66664 | 66665 |
| 66761 | 66762 | x | x | x | x |
| 66570 | 66670 | 66274 | 66275 | 66674 | 66675 |
| 66580 | 66680 | 66284 | 66285 | 66684 | 66685 |
| 66590 | 66690 | 66294 | 66295 | 66694 | 66695 |
| 66791 | 66792 | x | x | x | x |

Example of type marking: 66644 = PRIMA LED 1.4ft VP 2600/840 3F M1h



PRIMA LED VP DALI

| Code | Type |
|-------|----------------------------------|
| 66013 | PRIMA LED 1.2ft VP 1300/840 DALI |
| 66023 | PRIMA LED 1.2ft VP 1600/840 DALI |
| 66033 | PRIMA LED 1.2ft VP 2200/840 DALI |
| 66043 | PRIMA LED 1.4ft VP 2600/840 DALI |
| 66053 | PRIMA LED 1.4ft VP 3200/840 DALI |
| 66063 | PRIMA LED 1.4ft VP 4400/840 DALI |
| 66860 | PRIMA LED 1.4ft VP 6400/840 DALI |
| 66073 | PRIMA LED 1.5ft VP 3250/840 DALI |
| 66083 | PRIMA LED 1.5ft VP 4000/840 DALI |
| 66093 | PRIMA LED 1.5ft VP 5500/840 DALI |
| 66890 | PRIMA LED 1.5ft VP 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 66143 | 66343 | 66047 | 66048 | 66347 | 66348 |
| 66153 | 66353 | 66057 | 66058 | 66357 | 66358 |
| 66163 | 66363 | 66067 | 66068 | 66367 | 66368 |
| 66861 | 66862 | x | x | x | x |
| 66173 | 66373 | 66077 | 66078 | 66377 | 66378 |
| 66183 | 66383 | 66087 | 66088 | 66387 | 66388 |
| 66193 | 66393 | 66097 | 66098 | 66397 | 66398 |
| 66891 | 66892 | x | x | x | x |

PRIMA LED VPc DALI

| Code | Type |
|-------|-----------------------------------|
| 66213 | PRIMA LED 1.2ft VPc 1300/840 DALI |
| 66223 | PRIMA LED 1.2ft VPc 1600/840 DALI |
| 66233 | PRIMA LED 1.2ft VPc 2200/840 DALI |
| 66243 | PRIMA LED 1.4ft VPc 2600/840 DALI |
| 66253 | PRIMA LED 1.4ft VPc 3200/840 DALI |
| 66263 | PRIMA LED 1.4ft VPc 4400/840 DALI |
| 66960 | PRIMA LED 1.4ft VPc 6400/840 DALI |
| 66273 | PRIMA LED 1.5ft VPc 3250/840 DALI |
| 66283 | PRIMA LED 1.5ft VPc 4000/840 DALI |
| 66293 | PRIMA LED 1.5ft VPc 5500/840 DALI |
| 66990 | PRIMA LED 1.5ft VPc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 66543 | 66643 | 66247 | 66248 | 66647 | 66648 |
| 66553 | 66653 | 66257 | 66258 | 66657 | 66658 |
| 66563 | 66663 | 66267 | 66268 | 66667 | 66668 |
| 66961 | 66962 | x | x | x | x |
| 66573 | 66673 | 66277 | 66278 | 66677 | 66678 |
| 66583 | 66683 | 66287 | 66288 | 66687 | 66688 |
| 66593 | 66693 | 66297 | 66298 | 66697 | 66698 |
| 66991 | 66992 | x | x | x | x |

Example of type marking: 66693 = PRIMA LED 1.5ft VPc 5500/840 DALI **3F**

LEGEND

| | |
|---------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire |
| 3F | 3-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |

| | |
|--------------------|--|
| DALI | version with digital dimmable driver DALI |
| DALI 1F | 1-phase 5 core through-wiring in the luminaire |
| DALI 3F | 3-phase 7 core through-wiring in the luminaire |
| DALI 3F Mxh | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA LED VP



PRIMA LED ABS



... dustproof, waterproof and chemically resistant.

USE

The light fitting is suitable for the environment where ammoniac fumes, lixivants, alkaline compounds and hot water (hydrolyses) can be present. We recommend this light fitting for agricultural operations, stables, car washing lines, warehouses, mechanical workshops and laboratories without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to dust, moisture and spouting water. The body made of ABS and the diffuser made of AC have increased chemical resistance.

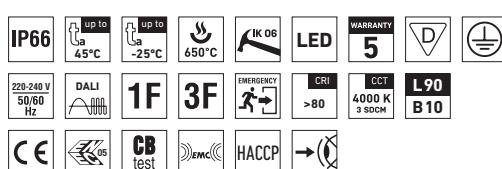
(It is necessary to consider exhalation in the air which can reduce the usability of the plastic at installations in an aggressive environment, see also page 367).

Always open the cover of the light fitting out of an environment with aggressive volatile substances.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 45°C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate (AC) = high chemical resistance
- Body: dark grey (ABS) = high chemical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80: 4000 K

- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Certification: ESČ, ENEC, CB, HACCP



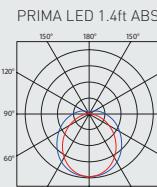
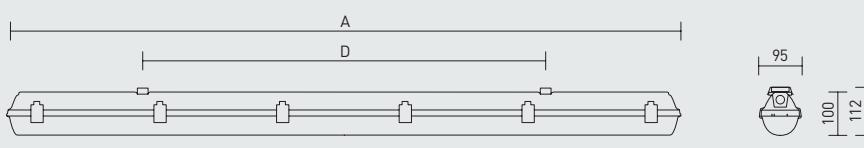
PRIMA LED ABS, ABSc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 153 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent acrylate (AC), UV stable, chemically resistant
- Body: dark grey (ABS), UV stable, chemically resistant

- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5, or rubber (SBS)
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, five-pole (basic version), or screwed
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 45^\circ\text{C}$ - body: dark grey ABS - diffuser: translucent acrylate | | | | | | | | | |
| PRIMA LED 1.2ft ABS 1300/840 | 45 | 1310 | 1140 | 8,2 | 139 | 21.5 / 18.7 | 1,0 | 662 | 350 |
| PRIMA LED 1.2ft ABS 1600/840 | 45 | 1560 | 1360 | 9,8 | 139 | 22.1 / 19.3 | 1,0 | 662 | 350 |
| PRIMA LED 1.2ft ABS 2200/840 | 40 | 2140 | 1860 | 13,2 | 141 | 23.2 / 20.4 | 1,0 | 662 | 350 |
| PRIMA LED 1.4ft ABS 2600/840 | 45 | 2600 | 2260 | 16,1 | 140 | 21.6 / 19.0 | 1,8 | 1272 | 700 |
| PRIMA LED 1.4ft ABS 3200/840 | 45 | 3100 | 2700 | 19,1 | 141 | 22.2 / 19.6 | 1,8 | 1272 | 700 |
| PRIMA LED 1.4ft ABS 4400/840 | 40 | 4300 | 3740 | 26,0 | 144 | 23.4 / 20.8 | 1,8 | 1272 | 700 |
| PRIMA LED 1.4ft ABS 6400/840 | 40 | 6120 | 5320 | 36,1 | 147 | 24.6 / 22.0 | 1,8 | 1272 | 700 |
| PRIMA LED 1.5ft ABS 3250/840 | 45 | 3240 | 2820 | 19,5 | 145 | 21.7 / 19.1 | 2,1 | 1572 | 940 |
| PRIMA LED 1.5ft ABS 4000/840 | 45 | 3850 | 3350 | 23,3 | 144 | 22.3 / 19.7 | 2,1 | 1572 | 940 |
| PRIMA LED 1.5ft ABS 5500/840 | 40 | 5340 | 4650 | 31,9 | 146 | 23.4 / 20.8 | 2,1 | 1572 | 940 |
| PRIMA LED 1.5ft ABS 8000/840 | 40 | 7780 | 6770 | 44,3 | 153 | 24.7 / 22.1 | 2,1 | 1572 | 940 |

67020 PRIMA LED 1.2ft ABS 1600/840 = suitable replacement for T8 fl. tube light fitting PRIMA 118 - 1x18W

67050 PRIMA LED 1.4ft ABS 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 136 - 1x36W

67490 PRIMA LED 1.5ft ABS 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2x58W

PRIMA LED ABS

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|------------------------------|-------|-------|-------|-------|--------|--------|
| 67010 | PRIMA LED 1.2ft ABS 1300/840 | x | x | x | x | x | x |
| 67020 | PRIMA LED 1.2ft ABS 1600/840 | x | x | x | x | x | x |
| 67030 | PRIMA LED 1.2ft ABS 2200/840 | x | x | x | x | x | x |
| 67040 | PRIMA LED 1.4ft ABS 2600/840 | 67140 | 67340 | 67044 | 67045 | 67344 | 67345 |
| 67050 | PRIMA LED 1.4ft ABS 3200/840 | 67150 | 67350 | 67054 | 67055 | 67354 | 67355 |
| 67060 | PRIMA LED 1.4ft ABS 4400/840 | 67160 | 67360 | 67064 | 67065 | 67364 | 67365 |
| 67460 | PRIMA LED 1.4ft ABS 6400/840 | 67461 | 67462 | x | x | x | x |
| 67070 | PRIMA LED 1.5ft ABS 3250/840 | 67170 | 67370 | 67074 | 67075 | 67374 | 67375 |
| 67080 | PRIMA LED 1.5ft ABS 4000/840 | 67180 | 67380 | 67084 | 67085 | 67384 | 67385 |
| 67090 | PRIMA LED 1.5ft ABS 5500/840 | 67190 | 67390 | 67094 | 67095 | 67394 | 67395 |
| 67490 | PRIMA LED 1.5ft ABS 8000/840 | 67491 | 67492 | x | x | x | x |

PRIMA LED ABSc

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------------------------------|-------|-------|-------|-------|--------|--------|
| 67210 | PRIMA LED 1.2ft ABSc 1300/840 | x | x | x | x | x | x |
| 67220 | PRIMA LED 1.2ft ABSc 1600/840 | x | x | x | x | x | x |
| 67230 | PRIMA LED 1.2ft ABSc 2200/840 | x | x | x | x | x | x |
| 67240 | PRIMA LED 1.4ft ABSc 2600/840 | 67540 | 67640 | 67244 | 67245 | 67644 | 67645 |
| 67250 | PRIMA LED 1.4ft ABSc 3200/840 | 67550 | 67650 | 67254 | 67255 | 67654 | 67655 |
| 67260 | PRIMA LED 1.4ft ABSc 4400/840 | 67560 | 67660 | 67264 | 67265 | 67664 | 67665 |
| 67760 | PRIMA LED 1.4ft ABSc 6400/840 | 67761 | 67762 | x | x | x | x |
| 67270 | PRIMA LED 1.5ft ABSc 3250/840 | 67570 | 67670 | 67274 | 67275 | 67674 | 67675 |
| 67280 | PRIMA LED 1.5ft ABSc 4000/840 | 67580 | 67680 | 67284 | 67285 | 67684 | 67685 |
| 67290 | PRIMA LED 1.5ft ABSc 5500/840 | 67590 | 67690 | 67294 | 67295 | 67694 | 67695 |
| 67790 | PRIMA LED 1.5ft ABSc 8000/840 | 67791 | 67792 | x | x | x | x |

Example of type marking: 67644 = PRIMA LED 1.4ft ABS 2600/840 **3F M1h**

PRIMA LED ABS DALI

| Code | Type |
|-------|-----------------------------------|
| 67013 | PRIMA LED 1.2ft ABS 1300/840 DALI |
| 67023 | PRIMA LED 1.2ft ABS 1600/840 DALI |
| 67033 | PRIMA LED 1.2ft ABS 2200/840 DALI |
| 67043 | PRIMA LED 1.4ft ABS 2600/840 DALI |
| 67053 | PRIMA LED 1.4ft ABS 3200/840 DALI |
| 67063 | PRIMA LED 1.4ft ABS 4400/840 DALI |
| 67860 | PRIMA LED 1.4ft ABS 6400/840 DALI |
| 67073 | PRIMA LED 1.5ft ABS 3250/840 DALI |
| 67083 | PRIMA LED 1.5ft ABS 4000/840 DALI |
| 67093 | PRIMA LED 1.5ft ABS 5500/840 DALI |
| 67890 | PRIMA LED 1.5ft ABS 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 67143 | 67343 | 67047 | 67048 | 67347 | 67348 |
| 67153 | 67353 | 67057 | 67058 | 67357 | 67358 |
| 67163 | 67363 | 67067 | 67068 | 67367 | 67368 |
| 67861 | 67862 | x | x | x | x |
| 67173 | 67373 | 67077 | 67078 | 67377 | 67378 |
| 67183 | 67383 | 67087 | 67088 | 67387 | 67388 |
| 67193 | 67393 | 67097 | 67098 | 67397 | 67398 |
| 67891 | 67892 | x | x | x | x |

PRIMA LED ABSc DALI

| Code | Type |
|-------|------------------------------------|
| 67213 | PRIMA LED 1.2ft ABSc 1300/840 DALI |
| 67223 | PRIMA LED 1.2ft ABSc 1600/840 DALI |
| 67233 | PRIMA LED 1.2ft ABSc 2200/840 DALI |
| 67243 | PRIMA LED 1.4ft ABSc 2600/840 DALI |
| 67253 | PRIMA LED 1.4ft ABSc 3200/840 DALI |
| 67263 | PRIMA LED 1.4ft ABSc 4400/840 DALI |
| 67960 | PRIMA LED 1.4ft ABSc 6400/840 DALI |
| 67273 | PRIMA LED 1.5ft ABSc 3250/840 DALI |
| 67283 | PRIMA LED 1.5ft ABSc 4000/840 DALI |
| 67293 | PRIMA LED 1.5ft ABSc 5500/840 DALI |
| 67990 | PRIMA LED 1.5ft ABSc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 67543 | 67643 | 67247 | 67248 | 67647 | 67648 |
| 67553 | 67653 | 67257 | 67258 | 67657 | 67658 |
| 67563 | 67663 | 67267 | 67268 | 67667 | 67668 |
| 67961 | 67962 | x | x | x | x |
| 67573 | 67673 | 67277 | 67278 | 67677 | 67678 |
| 67583 | 67683 | 67287 | 67288 | 67687 | 67688 |
| 67593 | 67693 | 67297 | 67298 | 67697 | 67698 |
| 67991 | 67992 | x | x | x | x |

Example of type marking: 67693 = PRIMA LED 1.5ft ABSc 5500/840 DALI **3F**

LEGEND

| | | | |
|---------------|--|--------------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire | DALI | version with digital dimmable driver DALI |
| 3F | 3-phase 5 core through-wiring in the luminaire | DALI 1F | 1-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination | DALI 3F | 3-phase 7 core through-wiring in the luminaire |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination | DALI 3F Mxh | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) | | |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA LED ABS



PRIMA LED CLASS II



... with Class II insulation.

USE

Light fitting is suitable for **industrial, warehouse and agricultural buildings, sports premises, transport terminals, railway vehicle repair shops, platforms, traction substations, depots, parking lots and garages, workshops and laboratories** without explosion hazard.

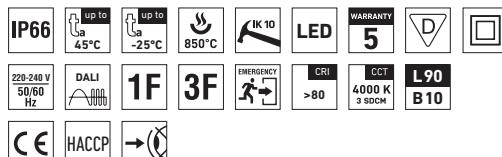
The light fitting resists dust, humidity and splashing water. The body and the diffuser made of PC material have high mechanical resistance against impact and deformation.

Emissions in the environment of use may reduce the usability of the plastics.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **$t_a = 45^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25°C

- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Available in ABS chemical resistant version
- Through-wiring of up to 6 wires at body (1.4ft and 1.5ft)



PRIMA LED CLASS II PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ [version with emergency back-up source for 1 or 3 hours; M1h, M3h]
- Maximum system efficacy: 156 lm/W
- AWEX emergency light module generates a luminous flux of 440 lm
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant

- Body: grey polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5, or rubber (SBS)
- Distance part: polyamide + 10 % glass fibre
- Terminal block: **Connectors with 2, 4 or 6 poles, wire section 1.5 or 2.5 mm**
- Installation: package contains stainless hooks, stainless brackets and a connector's counterpart
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Max. ambient temperature $t_a = 45^\circ\text{C}$ - body: grey polycarbonate - diffuser: translucent polycarbonate | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] D [mm] | |
|--------------------------------------|--|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|---------------|-----|
| | | | | | | | | A | D |
| PRIMA LED 1.2ft CLASS II PC 1300/840 | 45 | 1310 | 1170 | 8,2 | 143 | 22.0 / 18.8 | 1,0 | 662 | 350 |
| PRIMA LED 1.2ft CLASS II PC 1600/840 | 45 | 1560 | 1390 | 9,8 | 142 | 22.6 / 19.4 | 1,0 | 662 | 350 |
| PRIMA LED 1.2ft CLASS II PC 2200/840 | 40 | 2140 | 1900 | 13,2 | 144 | 23.6 / 20.5 | 1,0 | 662 | 350 |
| PRIMA LED 1.4ft CLASS II PC 2600/840 | 45 | 2600 | 2310 | 16,1 | 143 | 22.1 / 19.1 | 1,8 | 1272 | 700 |
| PRIMA LED 1.4ft CLASS II PC 3200/840 | 45 | 3100 | 2760 | 19,1 | 145 | 22.7 / 19.7 | 1,8 | 1272 | 700 |
| PRIMA LED 1.4ft CLASS II PC 4400/840 | 40 | 4300 | 3830 | 26,0 | 147 | 23.8 / 20.9 | 1,8 | 1272 | 700 |
| PRIMA LED 1.4ft CLASS II PC 6400/840 | 40 | 6120 | 5450 | 36,1 | 151 | 25.1 / 22.1 | 1,8 | 1272 | 700 |
| PRIMA LED 1.5ft CLASS II PC 3250/840 | 45 | 3240 | 2880 | 19,5 | 148 | 22.1 / 19.2 | 2,1 | 1572 | 940 |
| PRIMA LED 1.5ft CLASS II PC 4000/840 | 45 | 3850 | 3430 | 23,3 | 147 | 22.7 / 19.8 | 2,1 | 1572 | 940 |
| PRIMA LED 1.5ft CLASS II PC 5500/840 | 40 | 5340 | 4750 | 31,9 | 149 | 23.9 / 20.9 | 2,1 | 1572 | 940 |
| PRIMA LED 1.5ft CLASS II PC 8000/840 | 40 | 7780 | 6920 | 44,3 | 156 | 25.2 / 22.2 | 2,1 | 1572 | 940 |

71210 PRIMA LED 1.2ft CLASS II PC 1600/840 = suitable replacement for T8 fl. tube light fitting PRIMA 118 – 1×18W
 71240 PRIMA LED 1.4ft CLASS II PC 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 136 – 1×36W
 71260 PRIMA LED 1.4ft CLASS II PC 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 – 2×36W
 71280 PRIMA LED 1.5ft CLASS II PC 4000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 158 – 1×58W
 71300 PRIMA LED 1.5ft CLASS II PC 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 – 2×58W

PRIMA LED CLASS II PC

| Code | Type |
|-------|--------------------------------------|
| 71200 | PRIMA LED 1.2ft CLASS II PC 1300/840 |
| 71210 | PRIMA LED 1.2ft CLASS II PC 1600/840 |
| 71220 | PRIMA LED 1.2ft CLASS II PC 2200/840 |
| 71230 | PRIMA LED 1.4ft CLASS II PC 2600/840 |
| 71240 | PRIMA LED 1.4ft CLASS II PC 3200/840 |
| 71250 | PRIMA LED 1.4ft CLASS II PC 4400/840 |
| 71260 | PRIMA LED 1.4ft CLASS II PC 6400/840 |
| 71270 | PRIMA LED 1.5ft CLASS II PC 3250/840 |
| 71280 | PRIMA LED 1.5ft CLASS II PC 4000/840 |
| 71290 | PRIMA LED 1.5ft CLASS II PC 5500/840 |
| 71300 | PRIMA LED 1.5ft CLASS II PC 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 71231 | 71233 | 71234 | 71235 | 71236 | 71237 |
| 71241 | 71243 | 71244 | 71245 | 71246 | 71247 |
| 71251 | 71253 | 71254 | 71255 | 71256 | 71257 |
| 71261 | 71263 | x | x | x | x |
| 71271 | 71273 | 71274 | 71275 | 71276 | 71277 |
| 71281 | 71283 | 71284 | 71285 | 71286 | 71287 |
| 71291 | 71293 | 71294 | 71295 | 71296 | 71297 |
| 71301 | 71303 | x | x | x | x |

PRIMA LED CLASS II PCc

| Code | Type |
|-------|---------------------------------------|
| 71310 | PRIMA LED 1.2ft CLASS II PCc 1300/840 |
| 71320 | PRIMA LED 1.2ft CLASS II PCc 1600/840 |
| 71330 | PRIMA LED 1.2ft CLASS II PCc 2200/840 |
| 71340 | PRIMA LED 1.4ft CLASS II PCc 2600/840 |
| 71350 | PRIMA LED 1.4ft CLASS II PCc 3200/840 |
| 71360 | PRIMA LED 1.4ft CLASS II PCc 4400/840 |
| 71370 | PRIMA LED 1.4ft CLASS II PCc 6400/840 |
| 71380 | PRIMA LED 1.5ft CLASS II PCc 3250/840 |
| 71390 | PRIMA LED 1.5ft CLASS II PCc 4000/840 |
| 71400 | PRIMA LED 1.5ft CLASS II PCc 5500/840 |
| 71410 | PRIMA LED 1.5ft CLASS II PCc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 71341 | 71343 | 71344 | 71345 | 71346 | 71347 |
| 71351 | 71353 | 71354 | 71355 | 71356 | 71357 |
| 71361 | 71363 | 71364 | 71365 | 71366 | 71367 |
| 71371 | 71373 | x | x | x | x |
| 71381 | 71383 | 71384 | 71385 | 71386 | 71387 |
| 71391 | 71393 | 71394 | 71395 | 71396 | 71397 |
| 71401 | 71403 | 71404 | 71405 | 71406 | 71407 |
| 71411 | 71413 | x | x | x | x |

Example of type marking: 71346 = PRIMA LED 1.4ft CLASS II PCc 2600/840 **3F M1h**

PRIMA LED CLASS II PC DALI

| Code | Type |
|-------|---|
| 71420 | PRIMA LED 1.2ft CLASS II PC 1300/840 DALI |
| 71430 | PRIMA LED 1.2ft CLASS II PC 1600/840 DALI |
| 71440 | PRIMA LED 1.2ft CLASS II PC 2200/840 DALI |
| 71450 | PRIMA LED 1.4ft CLASS II PC 2600/840 DALI |
| 71460 | PRIMA LED 1.4ft CLASS II PC 3200/840 DALI |
| 71470 | PRIMA LED 1.4ft CLASS II PC 4400/840 DALI |
| 71480 | PRIMA LED 1.4ft CLASS II PC 6400/840 DALI |
| 71490 | PRIMA LED 1.5ft CLASS II PC 3250/840 DALI |
| 71500 | PRIMA LED 1.5ft CLASS II PC 4000/840 DALI |
| 71510 | PRIMA LED 1.5ft CLASS II PC 5500/840 DALI |
| 71520 | PRIMA LED 1.5ft CLASS II PC 8000/840 DALI |

Digital dimmable driver DALI - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 71451 | 71453 | 71454 | 71455 | 71456 | 71457 |
| 71461 | 71463 | 71464 | 71465 | 71466 | 71467 |
| 71471 | 71473 | 71474 | 71475 | 71476 | 71477 |
| 71481 | 71483 | x | x | x | x |
| 71491 | 71493 | 71494 | 71495 | 71496 | 71497 |
| 71501 | 71503 | 71504 | 71505 | 71506 | 71507 |
| 71511 | 71513 | 71514 | 71515 | 71516 | 71517 |
| 71521 | 71523 | x | x | x | x |

PRIMA LED CLASS II PCc DALI

| Code | Type |
|-------|--|
| 71530 | PRIMA LED 1.2ft CLASS II PCc 1300/840 DALI |
| 71540 | PRIMA LED 1.2ft CLASS II PCc 1600/840 DALI |
| 71550 | PRIMA LED 1.2ft CLASS II PCc 2200/840 DALI |
| 71560 | PRIMA LED 1.4ft CLASS II PCc 2600/840 DALI |
| 71570 | PRIMA LED 1.4ft CLASS II PCc 3200/840 DALI |
| 71580 | PRIMA LED 1.4ft CLASS II PCc 4400/840 DALI |
| 71590 | PRIMA LED 1.4ft CLASS II PCc 6400/840 DALI |
| 71600 | PRIMA LED 1.5ft CLASS II PCc 3250/840 DALI |
| 71610 | PRIMA LED 1.5ft CLASS II PCc 4000/840 DALI |
| 71620 | PRIMA LED 1.5ft CLASS II PCc 5500/840 DALI |
| 71630 | PRIMA LED 1.5ft CLASS II PCc 8000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| x | x | x | x | x | x |
| 71561 | 71563 | 71564 | 71565 | 71566 | 71567 |
| 71571 | 71573 | 71574 | 71575 | 71576 | 71577 |
| 71581 | 71583 | 71584 | 71585 | 71586 | 71587 |
| 71591 | 71593 | x | x | x | x |
| 71601 | 71603 | 71604 | 71605 | 71606 | 71607 |
| 71611 | 71613 | 71614 | 71615 | 71616 | 71617 |
| 71621 | 71623 | 71624 | 71625 | 71626 | 71627 |
| 71631 | 71633 | x | x | x | x |

Example of type marking: 71623 = PRIMA LED 1.5ft CLASS II PCc 5500/840 DALI **3F**

LEGEND

| | |
|-----------------------------|---|
| CLASS II 1F | 1-phase 2 core through-wiring in the luminaire |
| CLASS II 3F | 3-phase 4 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination |
| CLASS II 3F Mxh | 3-phase 4 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |
| DALI | version with digital dimmable driver DALI |
| CLASS II DALI 1F | 1-phase 4 core through-wiring in the luminaire |
| CLASS II DALI 3F | 3-phase 6 core through-wiring in the luminaire |
| CLASS II DALI 3F Mxh | 3-phase 6 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA LED CLASS II



STUCCHI 37xx

WIELAND

PRIMA LED TRS



... for direct and indirect illumination.

USE

This luminaire, which features a clear base, is a perfect source of both direct and indirect illumination for spaces with low ceilings. The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

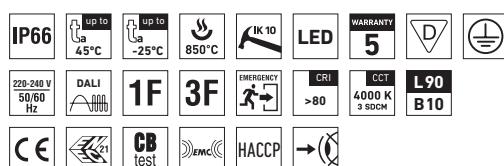
The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

It is necessary to consider exhalation in the air which can reduce the usability of the plastic at installations in an aggressive environment.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 45°C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: clear polycarbonate (PC) = high mechanical resistance
- Body: clear polycarbonate (PC) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C

- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable version
- It can be delivered in Tunable White version at request
- Certification: ESČ, CB, HACCP



PRIMA LED TRS PC, PCc

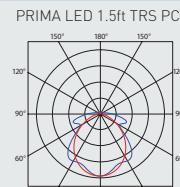
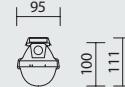
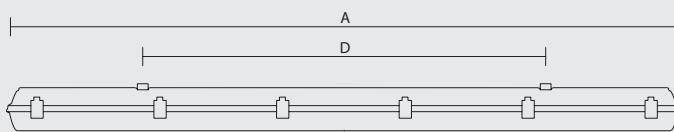


TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$
- Maximum system efficacy: 156 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: clear polycarbonate (PC) = high mechanical resistance
- Body: clear polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003) modified for indirect illumination
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide

- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5, or rubber (SBS)
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, three-pole (basic version), or screwed
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Max. ambient temperature $[^\circ\text{C}]$ | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|---|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 45^\circ\text{C}$ - body: clear polycarbonate - diffuser: clear polycarbonate | | | | | | | | | |
| PRIMA LED 1.2ft TRS PC 1300/840 | 45 | 1310 | 1170 | 8,2 | 143 | 22,2 / 19,8 | 1,0 | 662 | 350 |
| PRIMA LED 1.2ft TRS PC 1600/840 | 45 | 1560 | 1390 | 9,8 | 142 | 22,8 / 18,4 | 1,0 | 662 | 350 |
| PRIMA LED 1.2ft TRS PC 2200/840 | 40 | 2140 | 1900 | 13,2 | 144 | 23,9 / 19,5 | 1,0 | 662 | 350 |
| PRIMA LED 1.4ft TRS PC 2600/840 | 45 | 2600 | 2310 | 16,1 | 143 | 22,3 / 18,1 | 1,8 | 1272 | 700 |
| PRIMA LED 1.4ft TRS PC 3200/840 | 45 | 3100 | 2760 | 19,1 | 145 | 22,9 / 18,7 | 1,8 | 1272 | 700 |
| PRIMA LED 1.4ft TRS PC 4400/840 | 40 | 4300 | 3830 | 26,0 | 147 | 24,1 / 19,9 | 1,8 | 1272 | 700 |
| PRIMA LED 1.4ft TRS PC 6400/840 | 40 | 6120 | 5450 | 36,1 | 151 | 25,3 / 21,1 | 1,8 | 1272 | 700 |
| PRIMA LED 1.5ft TRS PC 3250/840 | 45 | 3240 | 2880 | 19,5 | 148 | 22,3 / 18,2 | 2,1 | 1572 | 940 |
| PRIMA LED 1.5ft TRS PC 4000/840 | 45 | 3850 | 3430 | 23,3 | 147 | 22,9 / 18,8 | 2,1 | 1572 | 940 |
| PRIMA LED 1.5ft TRS PC 5500/840 | 40 | 5340 | 4750 | 31,9 | 149 | 24,1 / 19,9 | 2,1 | 1572 | 940 |
| PRIMA LED 1.5ft TRS PC 8000/840 | 40 | 7780 | 6920 | 44,3 | 156 | 25,4 / 21,2 | 2,1 | 1572 | 940 |



88010 PRIMA LED 1.2ft TRS PC 1600/840 = suitable replacement for T8 fl. tube light fitting PRIMA 118 - 1 x 18W
 88040 PRIMA LED 1.4ft TRS PC 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 136 - 1 x 36W
 88060 PRIMA LED 1.4ft TRS PC 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2 x 36W
 88080 PRIMA LED 1.5ft TRS PC 4000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 158 - 1 x 58W
 88100 PRIMA LED 1.5ft TRS PC 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2 x 58W

PRIMA LED TRS PC

Plastic clips

| Code | Type |
|-------|---------------------------------|
| 88000 | PRIMA LED 1.2ft TRS PC 1300/840 |
| 88010 | PRIMA LED 1.2ft TRS PC 1600/840 |
| 88020 | PRIMA LED 1.2ft TRS PC 2200/840 |
| 88030 | PRIMA LED 1.4ft TRS PC 2600/840 |
| 88040 | PRIMA LED 1.4ft TRS PC 3200/840 |
| 88050 | PRIMA LED 1.4ft TRS PC 4400/840 |
| 88060 | PRIMA LED 1.4ft TRS PC 6400/840 |
| 88070 | PRIMA LED 1.5ft TRS PC 3250/840 |
| 88080 | PRIMA LED 1.5ft TRS PC 4000/840 |
| 88090 | PRIMA LED 1.5ft TRS PC 5500/840 |
| 88100 | PRIMA LED 1.5ft TRS PC 8000/840 |

| 1F | 3F | DALI | DALI 1F | DALI 3F |
|-------|-------|-------|---------|---------|
| x | x | 88220 | x | x |
| x | x | 88230 | x | x |
| x | x | 88240 | x | x |
| 88031 | 88033 | 88250 | 88251 | 88253 |
| 88041 | 88043 | 88260 | 88261 | 88263 |
| 88051 | 88053 | 88270 | 88271 | 88273 |
| 88061 | 88063 | 88280 | 88281 | 88283 |
| 88071 | 88073 | 88290 | 88291 | 88293 |
| 88081 | 88083 | 88300 | 88301 | 88303 |
| 88091 | 88093 | 88310 | 88311 | 88313 |
| 88101 | 88103 | 88320 | 88321 | 88323 |

PRIMA LED TRS PCC

Stainless clips (c)

| Code | Type |
|-------|----------------------------------|
| 88110 | PRIMA LED 1.2ft TRS PCC 1300/840 |
| 88120 | PRIMA LED 1.2ft TRS PCC 1600/840 |
| 88130 | PRIMA LED 1.2ft TRS PCC 2200/840 |
| 88140 | PRIMA LED 1.4ft TRS PCC 2600/840 |
| 88150 | PRIMA LED 1.4ft TRS PCC 3200/840 |
| 88160 | PRIMA LED 1.4ft TRS PCC 4400/840 |
| 88170 | PRIMA LED 1.4ft TRS PCC 6400/840 |
| 88180 | PRIMA LED 1.5ft TRS PCC 3250/840 |
| 88190 | PRIMA LED 1.5ft TRS PCC 4000/840 |
| 88200 | PRIMA LED 1.5ft TRS PCC 5500/840 |
| 88210 | PRIMA LED 1.5ft TRS PCC 8000/840 |

| 1F | 3F | DALI | DALI 1F | DALI 3F |
|-------|-------|-------|---------|---------|
| x | x | 88330 | x | x |
| x | x | 88340 | x | x |
| x | x | 88350 | x | x |
| 88141 | 88143 | 88360 | 88361 | 88363 |
| 88151 | 88153 | 88370 | 88371 | 88373 |
| 88161 | 88163 | 88380 | 88381 | 88383 |
| 88171 | 88173 | 88390 | 88391 | 88393 |
| 88181 | 88183 | 88400 | 88401 | 88403 |
| 88191 | 88193 | 88410 | 88411 | 88413 |
| 88201 | 88203 | 88420 | 88421 | 88423 |
| 88211 | 88213 | 88430 | 88431 | 88433 |

Example of type marking: 88363 = PRIMA LED 1.4ft TRS PCC 2600/840 DALI 3F

LEGEND

| | | | |
|---------------|--|--------------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire | DALI | version with digital dimmable driver DALI |
| 3F | 3-phase 5 core through-wiring in the luminaire | DALI 1F | 1-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination | DALI 3F | 3-phase 7 core through-wiring in the luminaire |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination | DALI 3F Mxh | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) | | |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**LIGHT FITTING DETAILED VIEW**

PRIMA LED MAX



... for extreme temperatures -40 °C to +65 °C.

USE

The light fitting is suitable for indoor and outdoor spaces with roof with extreme ambient temperatures from **(-40 °C to +65 °C)**. The light fitting is destined mainly for heating stations, metallurgical lines, glass-works, as well as for freezers, cooling plants and other premises without danger of explosion of gases, dusts and flammable vapors.

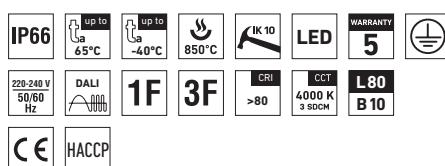
The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

It is necessary to consider exhalation in the air which can reduce the usability of the plastic at installations in an aggressive environment, see also page 367).

ADVANTAGES

- Light fitting protection **IP66**
- Minimum ambient temperature up to **t_a = -40 °C**
- Maximum ambient temperature up to **t_a = 65 °C**
- Lifetime: 50,000 hours / L80B10
- Possibility of using in even higher ambient temperatures under the condition of a shortened service life of the light fitting – parameters solved within a particular project
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance

- Up to 45 % lower electricity consumption when compared to tubes T5
- Constant luminous flux even in ambient temperature of -40 °C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K
- Certification: HACCP



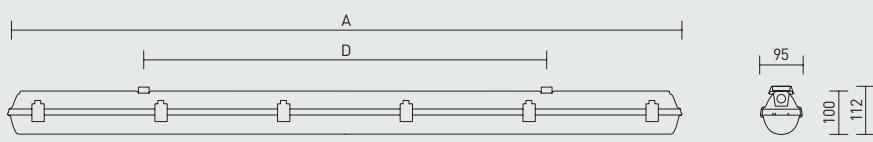
PRIMA LED MAX PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Minimum ambient temperature: $t_a = -40^\circ\text{C}$
- Maximum ambient temperature: $t_a = 65^\circ\text{C}$
- Lifetime: 50,000 hours / L80B10
- Possibility of using in even higher ambient temperatures under the condition of a shortened service life of the light fitting – parameters solved within a particular project
- Maximum system efficacy: 149 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate (PC), UV stable, impact-resistant

- Reflector: steel sheet, white colour (RAL 9003)
- Ventilation plug: type BVPB-01 made of polyamide, size M12 x 1.5
- Clips: stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5, or rubber (SBS)
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, five-pole (basic version), or screwed
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 65^\circ\text{C}$ - body: grey polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | |
| PRIMA LED 1.5ft MAX PCc 4000/840 | 65 | 3850 | 3430 | 23,3 | 147 | 22,7 / 19,8 | 2,2 | 1572 | 940 |
| PRIMA LED 1.5ft MAX PCc 5500/840 | 60 | 5340 | 4750 | 31,9 | 149 | 23,9 / 20,9 | 2,2 | 1572 | 940 |

PRIMA LED MAX PCc

Non-dimmable driver - stainless clips [c]

| Code | Type | 1F | 3F | M1h | M3h | DALI | DALI 3F |
|-------|----------------------------------|-------|-------|-----|-----|-------|---------|
| 79910 | PRIMA LED 1.5ft MAX PCc 4000/840 | 79911 | 79913 | x | x | 79915 | 79916 |
| 79900 | PRIMA LED 1.5ft MAX PCc 5500/840 | 79901 | 79903 | x | x | 79905 | 79906 |

Example of type marking: 79903 = PRIMA LED MAX 1.5ft PCc 5500/840 3F

LEGEND

| | | | |
|---------------|--|--------------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire | DALI | version with digital dimmable driver DALI |
| 3F | 3-phase 5 core through-wiring in the luminaire | DALI 1F | 1-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination | DALI 3F | 3-phase 7 core through-wiring in the luminaire |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination | DALI 3F Mxh | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) | | |

LIGHT FITTING ATTACHMENT

- Directly to a ceiling with the use of screws and stainless brackets
- Suspension with the use of stainless hooks
- Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA LED MAX



PRIMA LED SNS



... dustproof, waterproof and impact-resistant.

USE

The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

[It is necessary to consider exhalation in the air which can reduce the usability of the plastic at installations in an aggressive environment, see also page 367].

ADVANTAGES

- Light fitting protection IP66
- Maximum ambient temperature up to **t_a = 45°C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- Current driver with the possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C

- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- With built-in **microwave motion sensor**
- The possibility of setting the sensor using the DIP switch
- It can be delivered in dimmable or emergency version
- Certification: HACCP



PRIMA LED SNS PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 156 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)

- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: screwed PG 13.5, or rubber (SBS)
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, five-pole (basic version), or screwed
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or digital dimmable driver DALI
- Motion sensor: 360° range, switch on height 1 – 6 m, time range 5 sec – 30 min, switch-on sensitivity 2 – 50 lux

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| | | | | | | | | C0 | C90 |
| For ambient temperature $t_a = 45^\circ\text{C}$ - body: grey polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | |
| PRIMA LED 1.4ft SNS PC 2600/840 | 45 | 2600 | 2310 | 16,1 | 143 | 22,1 / 19,1 | 1,85 | 1272 | 700 |
| PRIMA LED 1.4ft SNS PC 3200/840 | 45 | 3100 | 2760 | 19,1 | 145 | 22,7 / 19,7 | 1,85 | 1272 | 700 |
| PRIMA LED 1.4ft SNS PC 4400/840 | 40 | 4300 | 3830 | 26,0 | 147 | 23,8 / 20,9 | 1,85 | 1272 | 700 |
| PRIMA LED 1.4ft SNS PC 6400/840 | 40 | 6120 | 5450 | 36,1 | 151 | 25,1 / 22,1 | 1,85 | 1272 | 700 |
| PRIMA LED 1.5ft SNS PC 3250/840 | 45 | 3240 | 2880 | 19,5 | 148 | 22,1 / 19,2 | 2,15 | 1572 | 940 |
| PRIMA LED 1.5ft SNS PC 4000/840 | 45 | 3850 | 3430 | 23,3 | 147 | 22,7 / 19,8 | 2,15 | 1572 | 940 |
| PRIMA LED 1.5ft SNS PC 5500/840 | 40 | 5340 | 4750 | 31,9 | 149 | 23,9 / 20,9 | 2,15 | 1572 | 940 |
| PRIMA LED 1.5ft SNS PC 8000/840 | 40 | 7780 | 6920 | 44,3 | 156 | 25,2 / 22,2 | 2,15 | 1572 | 940 |

64050 PRIMA LED 1.4ft SNS PC 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 136 – 1 × 36W

64460 PRIMA LED 1.4ft SNS PC 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 – 2 × 36W

64080 PRIMA LED 1.5ft SNS PC 4000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 158 – 1 × 58W

64490 PRIMA LED 1.5ft SNS PC 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 – 2 × 58W

PRIMA LED SNS PC

| Code | Type |
|-------|---------------------------------|
| 64040 | PRIMA LED 1.4ft SNS PC 2600/840 |
| 64050 | PRIMA LED 1.4ft SNS PC 3200/840 |
| 64060 | PRIMA LED 1.4ft SNS PC 4400/840 |
| 64460 | PRIMA LED 1.4ft SNS PC 6400/840 |
| 64070 | PRIMA LED 1.5ft SNS PC 3250/840 |
| 64080 | PRIMA LED 1.5ft SNS PC 4000/840 |
| 64090 | PRIMA LED 1.5ft SNS PC 5500/840 |
| 64490 | PRIMA LED 1.5ft SNS PC 8000/840 |

Non-dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 64140 | 64340 | 64044 | 64045 | 64344 | 64345 |
| 64150 | 64350 | 64054 | 64055 | 64354 | 64355 |
| 64160 | 64360 | 64064 | 64065 | 64364 | 64365 |
| 64461 | 64462 | x | x | x | x |
| 64170 | 64370 | 64074 | 64075 | 64374 | 64375 |
| 64180 | 64380 | 64084 | 64085 | 64384 | 64385 |
| 64190 | 64390 | 64094 | 64095 | 64394 | 64395 |
| 64491 | 64492 | x | x | x | x |

PRIMA LED SNS PCc

| Code | Type |
|-------|----------------------------------|
| 64240 | PRIMA LED 1.4ft SNS PCc 2600/840 |
| 64250 | PRIMA LED 1.4ft SNS PCc 3200/840 |
| 64260 | PRIMA LED 1.4ft SNS PCc 4400/840 |
| 64760 | PRIMA LED 1.4ft SNS PCc 6400/840 |
| 64270 | PRIMA LED 1.5ft SNS PCc 3250/840 |
| 64280 | PRIMA LED 1.5ft SNS PCc 4000/840 |
| 64290 | PRIMA LED 1.5ft SNS PCc 5500/840 |
| 64790 | PRIMA LED 1.5ft SNS PCc 8000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 64540 | 64640 | 64244 | 64245 | 64644 | 64645 |
| 64550 | 64650 | 64254 | 64255 | 64654 | 64655 |
| 64560 | 64660 | 64264 | 64265 | 64664 | 64665 |
| 64761 | 64762 | x | x | x | x |
| 64570 | 64670 | 64274 | 64275 | 64674 | 64675 |
| 64580 | 64680 | 64284 | 64285 | 64684 | 64685 |
| 64590 | 64690 | 64294 | 64295 | 64694 | 64695 |
| 64791 | 64792 | x | x | x | x |

Example of type marking: 64644 = PRIMA LED 1.4ft SNS PC 2600/840 3F M1h

PRIMA LED SNS PC CORRIDOR

| Code | Type |
|-------|--|
| 64043 | PRIMA LED 1.4ft SNS PC 2600/840 CORRIDOR |
| 64053 | PRIMA LED 1.4ft SNS PC 3200/840 CORRIDOR |
| 64063 | PRIMA LED 1.4ft SNS PC 4400/840 CORRIDOR |
| 64073 | PRIMA LED 1.5ft SNS PC 3250/840 CORRIDOR |
| 64083 | PRIMA LED 1.5ft SNS PC 4000/840 CORRIDOR |
| 64093 | PRIMA LED 1.5ft SNS PC 5500/840 CORRIDOR |

Digital dimmable driver - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 64143 | 64343 | 64047 | x | 64347 | x |
| 64153 | 64353 | 64057 | x | 64357 | x |
| 64163 | 64363 | 64067 | x | 64367 | x |
| 64173 | 64373 | 64077 | 64078 | 64377 | 64378 |
| 64183 | 64383 | 64087 | 64088 | 64387 | 64388 |
| 64193 | 64393 | 64097 | 64098 | 64397 | 64398 |

PRIMA LED SNS PCc CORRIDOR

| Code | Type |
|-------|---|
| 64243 | PRIMA LED 1.4ft SNS PCc 2600/840 CORRIDOR |
| 64253 | PRIMA LED 1.4ft SNS PCc 3200/840 CORRIDOR |
| 64263 | PRIMA LED 1.4ft SNS PCc 4400/840 CORRIDOR |
| 64273 | PRIMA LED 1.5ft SNS PCc 3250/840 CORRIDOR |
| 64283 | PRIMA LED 1.5ft SNS PCc 4000/840 CORRIDOR |
| 64293 | PRIMA LED 1.5ft SNS PCc 5500/840 CORRIDOR |

Digital dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 64543 | 64643 | 64247 | x | 64647 | x |
| 64553 | 64653 | 64257 | x | 64657 | x |
| 64563 | 64663 | 64267 | x | 64667 | x |
| 64573 | 64673 | 64277 | 64278 | 64677 | 64678 |
| 64583 | 64683 | 64287 | 64288 | 64687 | 64688 |
| 64593 | 64693 | 64297 | 64298 | 64697 | 64698 |

Example of type marking: 64693 = PRIMA LED 1.5ft SNS PCc 5500/840 CORRIDOR 3F

LEGEND

SNS 1F

1-phase 3 core through-wiring in the luminaire for connection of max. 5 slave luminaires

SNS 3F

3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor connected to L3)

M1h

emergency back-up source with 1 hour operating time for maintained emergency illumination

M3h

emergency back-up source with 3 hour operating time for maintained emergency illumination

SNS 3F Mxh

3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor and emergency unit connected to L3)

CORRIDOR

version with digital dimmable driver DALI and set corridor function

CORRIDOR 1F

1-phase 5 core through-wiring in the luminaire for connection of max. 20 luminaires

CORRIDOR 3F

3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L3)

CORRIDOR 3F Mxh

3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor and emergency unit connected to L3)

LIGHT FITTING ATTACHMENT

a) Directly to a ceiling or a wall with the use of screws and stainless brackets

b) Suspension with the use of stainless hooks

c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA LED SNS



PRIMA LED Ex



... for explosion hazard environment group II, category 3 (zone 2, 22).

USE

The light fitting is suitable for the environment with a danger of explosion of gas, dust and combustible fumes. The light fittings meet the requirements of Government Decree 116/2016 Coll. and European Community Directive No.2014/34/EU.

The light fitting is certified for the environment:
Ex II 3G Ex nR IIC T6 Gc
Ex II 3D Ex tc IIIC T70°C Dc

The basic requirements for safety and health protection are secured by the verification of conformity with the standards according to ČSN EN 60079-15, ČSN EN 60079-0 and ČSN EN 60079-31.

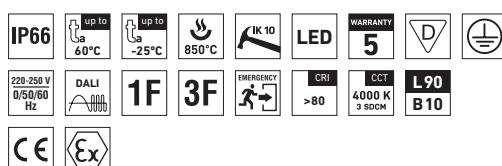
The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

It is necessary to consider exhalation in the air reducing the usability of the plastic at installations in an aggressive environment, see also page 367.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 60°C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to fluorescent tubes
- Current driver with the possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C

- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K
- Clips: stainless steel + polyamide + 15 % glass fibre
- Through-wiring of up to 10 wires at body
- At request also versions according to the standard for EAC states (Russia, Kazakhstan, Belarus, Armenia)
- Certification: TÜV CY 22 ATEX 0206610 X Issue: 01



PRIMA LED Ex PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: from -25 to 60 °C
- Maximum ambient temperature: from 0 to 50 °C (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 157 lm/W
- The watt and lumen values can vary by ± 7,5 %
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: stainless steel + polyamide + 15 % glass fibre
- Ventilation plug steel, size M12×1,5 ATEX (for version with emergency back-up source M1h, M3h)
- Cable glands: screwed M20×1,5 ATEX
- Distance part: polyamide + 10 % glass fibre, serves to suspend the reflector during assembly
- Terminal block: screwless, five-pole (version 1.4ft and 1.5ft), three-pole incl. earthing tape & screw for a perfect connection (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver, halogen-free wires with higher temperature resistance

| Type | Minimal and maximal ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|---|--|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 60^\circ\text{C}$ - body: grey polycarbonate - diffuser: translucent polycarbonate | | | | | | | | |
| PRIMA LED Ex 1.2ft PCc 1600/840 | -25 60 | 1840 | 1690 | 11 | 154 | 2,0 | 662 | 350 |
| PRIMA LED Ex 1.2ft PCc 2200/840 | -25 55 | 2560 | 2350 | 16 | 147 | 2,0 | 662 | 350 |
| PRIMA LED Ex 1.4ft PCc 3200/840 | -25 60 | 3620 | 3330 | 23 | 145 | 3,2 | 1272 | 700 |
| PRIMA LED Ex 1.4ft PCc 4400/840 | -25 55 | 5070 | 4660 | 31 | 150 | 3,3 | 1272 | 700 |
| PRIMA LED Ex 1.4ft PCc 6400/840 | -25 55 | 7300 | 6710 | 44 | 153 | 3,3 | 1272 | 700 |
| PRIMA LED Ex 1.5ft PCc 4000/840 | -25 60 | 4520 | 4150 | 27 | 154 | 4,1 | 1572 | 940 |
| PRIMA LED Ex 1.5ft PCc 5500/840 | -25 55 | 6320 | 5810 | 38 | 153 | 4,2 | 1572 | 940 |
| PRIMA LED Ex 1.5ft PCc 8000/840 | -25 55 | 9030 | 8300 | 53 | 157 | 4,2 | 1572 | 940 |
| PRIMA LED Ex 2.2ft PCc 3200/840 | -25 60 | 3620 | 3330 | 22 | 151 | 2,1 | 662 | 350 |
| PRIMA LED Ex 2.2ft PCc 4400/840 | -25 55 | 5120 | 4710 | 31 | 152 | 2,1 | 662 | 350 |
| PRIMA LED Ex 2.4ft PCc 6400/840 | -25 60 | 7300 | 6710 | 43 | 156 | 3,4 | 1272 | 700 |
| PRIMA LED Ex 2.4ft PCc 8800/840 | -25 55 | 10160 | 9340 | 60 | 156 | 3,5 | 1272 | 700 |
| PRIMA LED Ex 2.4ft PCc 12800/840 | -25 40 | 14490 | 13330 | 85 | 157 | 3,7 | 1272 | 700 |
| PRIMA LED Ex 2.5ft PCc 8000/840 | -25 60 | 9040 | 8310 | 54 | 154 | 4,3 | 1572 | 940 |
| PRIMA LED Ex 2.5ft PCc 11000/840 | -25 55 | 12050 | 11080 | 71 | 156 | 4,4 | 1572 | 940 |
| PRIMA LED Ex 2.5ft PCc 16000/840 | -25 40 | 17960 | 16520 | 106 | 156 | 4,6 | 1572 | 940 |
| PRIMA LED Ex 2.5ft PCc 20000/840 | -25 40 | 19200 | 17660 | 118 | 150 | 4,6 | 1572 | 940 |

14810 PRIMA LED Ex 1.4ft PCc 3200/840 = suitable replacement for PRIMA Ex 136 PCc E - 1×36 W

14830 PRIMA LED Ex 1.5ft PCc 4000/840 = suitable replacement for PRIMA Ex 158 PCc E - 1×58 W

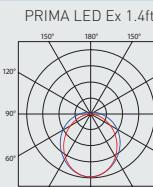
14850 PRIMA LED Ex 2.4ft PCc 6400/840 = suitable replacement for PRIMA Ex 236 PCc E - 2×36 W

14870 PRIMA LED Ex 2.5ft PCc 8000/840 = suitable replacement for PRIMA Ex 258 PCc E - 2×58 W

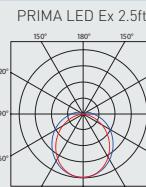
| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------|--------|--------|
| Version with emergency back-up source M1h, M3h | | | | | | | | |
| PRIMA LED Ex 1.2ft PCc 1600/840 Mxh | 0 45 | 1840 | 1690 | 11 | 154 | 2,5 | 662 | 350 |
| PRIMA LED Ex 1.2ft PCc 2200/840 Mxh | 0 45 | 2560 | 2350 | 16 | 147 | 2,5 | 662 | 350 |
| PRIMA LED Ex 1.4ft PCc 3200/840 Mxh | 0 50 | 3620 | 3330 | 23 | 145 | 3,7 | 1272 | 700 |
| PRIMA LED Ex 1.4ft PCc 4400/840 Mxh | 0 50 | 5070 | 4660 | 31 | 150 | 3,7 | 1272 | 700 |
| PRIMA LED Ex 1.5ft PCc 4000/840 Mxh | 0 50 | 4520 | 4150 | 27 | 154 | 4,6 | 1572 | 940 |
| PRIMA LED Ex 1.5ft PCc 5500/840 Mxh | 0 50 | 6320 | 5810 | 38 | 153 | 4,7 | 1572 | 940 |
| PRIMA LED Ex 2.2ft PCc 3200/840 Mxh | 0 40 | 3620 | 3330 | 22 | 151 | 2,6 | 662 | 350 |
| PRIMA LED Ex 2.2ft PCc 4400/840 Mxh | 0 35 | 5120 | 4710 | 31 | 152 | 2,6 | 662 | 350 |
| PRIMA LED Ex 2.4ft PCc 6400/840 Mxh | 0 45 | 7300 | 6710 | 43 | 156 | 3,9 | 1272 | 700 |
| PRIMA LED Ex 2.4ft PCc 8800/840 Mxh | 0 40 | 10160 | 9340 | 60 | 156 | 3,9 | 1272 | 700 |
| PRIMA LED Ex 2.5ft PCc 8000/840 Mxh | 0 45 | 9040 | 8310 | 54 | 154 | 4,8 | 1572 | 940 |
| PRIMA LED Ex 2.5ft PCc 11000/840 Mxh | 0 40 | 12050 | 11080 | 71 | 156 | 4,8 | 1572 | 940 |

Energy consumption of Mxh increased by 3 W until battery fully charged (max. 24 hours).

PRIMA LED Ex 1.4ft



PRIMA LED Ex 2.5ft



PRIMA LED Ex PCc

| Code | Type |
|-------|----------------------------------|
| 10628 | PRIMA LED Ex 1.2ft PCc 1600/840 |
| 10629 | PRIMA LED Ex 1.2ft PCc 2200/840 |
| 14810 | PRIMA LED Ex 1.4ft PCc 3200/840 |
| 14820 | PRIMA LED Ex 1.4ft PCc 4400/840 |
| 63850 | PRIMA LED Ex 1.4ft PCc 6400/840 |
| 14830 | PRIMA LED Ex 1.5ft PCc 4000/840 |
| 14840 | PRIMA LED Ex 1.5ft PCc 5500/840 |
| 63860 | PRIMA LED Ex 1.5ft PCc 8000/840 |
| 10633 | PRIMA LED Ex 2.2ft PCc 3200/840 |
| 10637 | PRIMA LED Ex 2.2ft PCc 4400/840 |
| 14850 | PRIMA LED Ex 2.4ft PCc 6400/840 |
| 14860 | PRIMA LED Ex 2.4ft PCc 8800/840 |
| 63865 | PRIMA LED Ex 2.4ft PCc 12800/840 |
| 14870 | PRIMA LED Ex 2.5ft PCc 8000/840 |
| 14880 | PRIMA LED Ex 2.5ft PCc 11000/840 |
| 63851 | PRIMA LED Ex 2.5ft PCc 16000/840 |
| 63880 | PRIMA LED Ex 2.5ft PCc 20000/840 |

Non-dimmable driver - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 10638 | 10646 | 63853 | 63890 | 63863 | 63854 |
| 10639 | 10647 | 63882 | 63894 | 63868 | 63883 |
| 14811 | 14813 | 14814 | 14815 | 14817 | 14818 |
| 14821 | 14823 | 14824 | 14825 | 14827 | 14828 |
| 63888 | 63881 | x | x | x | x |
| 14831 | 14833 | 14834 | 14835 | 14837 | 14838 |
| 14841 | 14843 | 14844 | 14845 | 14847 | 14848 |
| 63892 | 63889 | x | x | x | x |
| 10642 | 10649 | x | x | x | x |
| 10643 | 10652 | x | x | x | x |
| 14851 | 14853 | 14854 | 14855 | 14857 | 14858 |
| 14861 | 14863 | 14864 | 14865 | 14867 | 14868 |
| 63861 | 63893 | x | x | x | x |
| 14871 | 14873 | 14874 | 14875 | 14877 | 14878 |
| 14881 | 14883 | 14884 | 14885 | 14887 | 14888 |
| 63866 | 63862 | x | x | x | x |
| 63852 | 63867 | x | x | x | x |

Example of type marking: 14853 = PRIMA LED Ex 2.4ft PCc 6400/840 3F

PRIMA LED Ex PCc DALI

| Code | Type |
|-------|---------------------------------------|
| 10658 | PRIMA LED Ex 1.2ft PCc 1600/840 DALI |
| 10659 | PRIMA LED Ex 1.2ft PCc 2200/840 DALI |
| 14910 | PRIMA LED Ex 1.4ft PCc 3200/840 DALI |
| 14920 | PRIMA LED Ex 1.4ft PCc 4400/840 DALI |
| 63891 | PRIMA LED Ex 1.4ft PCc 6400/840 DALI |
| 14930 | PRIMA LED Ex 1.5ft PCc 4000/840 DALI |
| 14940 | PRIMA LED Ex 1.5ft PCc 5500/840 DALI |
| 63895 | PRIMA LED Ex 1.5ft PCc 8000/840 DALI |
| 10668 | PRIMA LED Ex 2.2ft PCc 3200/840 DALI |
| 10669 | PRIMA LED Ex 2.2ft PCc 4400/840 DALI |
| 14950 | PRIMA LED Ex 2.4ft PCc 6400/840 DALI |
| 14960 | PRIMA LED Ex 2.4ft PCc 8800/840 DALI |
| 63864 | PRIMA LED Ex 2.4ft PCc 12800/840 DALI |
| 14970 | PRIMA LED Ex 2.5ft PCc 8000/840 DALI |
| 14980 | PRIMA LED Ex 2.5ft PCc 11000/840 DALI |
| 63869 | PRIMA LED Ex 2.5ft PCc 16000/840 DALI |
| 63855 | PRIMA LED Ex 2.5ft PCc 20000/840 DALI |

Digital dimmable driver DALI - stainless clips (c)

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 10672 | x | 63897 | 63872 | x | x |
| 10678 | x | 63901 | 63877 | x | x |
| 14911 | 14913 | 14914 | 14915 | 14917 | 14918 |
| 14921 | 14923 | 14924 | 14925 | 14927 | 14928 |
| 63870 | 63900 | x | x | x | x |
| 14931 | 14933 | 14934 | 14935 | 14937 | 14938 |
| 14941 | 14943 | 14944 | 14945 | 14947 | 14948 |
| 63875 | 63871 | x | x | x | x |
| 10682 | x | x | x | x | x |
| 10684 | x | x | x | x | x |
| 14951 | 14953 | 14954 | 14955 | 14957 | 14958 |
| 14961 | 14963 | 14964 | 14965 | 14967 | 14968 |
| 63856 | 63876 | x | x | x | x |
| 14971 | 14973 | 14974 | 14975 | 14977 | 14978 |
| 14981 | 14983 | 14984 | 14985 | 14987 | 14988 |
| 63884 | 63857 | x | x | x | x |
| 63896 | 63885 | x | x | x | x |

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

- DALI** version with digital dimmable driver DALI
DALI 1F 1-phase 5 core through-wiring in the luminaire
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
 b) Suspension with the use of stainless hooks
 c) Attachment with the use of side hangers to the wall - is not included in accessories



LIGHT FITTING DETAILED VIEW

PRIMA LED Ex



PRIMA LED TUBE



... dustproof, waterproof and impact-resistant.

USE

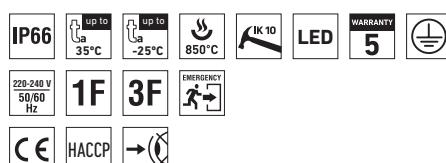
The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals and utility structures without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

[It is necessary to consider exhalation in the air which can reduce the usability of the plastic at installations in an aggressive environment, see also page 367].

ADVANTAGES

- Light fitting protection **IP66**
- Diffuser: transparent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Constant luminous flux even in ambient temperature of -25 °C
- Through-wiring of up to 10 wires at bodies of 2x120 and 2x150 type light fittings
- It can be delivered in emergency version



PRIMA LED TUBE PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 94 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Diffuser: transparent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: rubber (SBS)
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: for LED tubes Osram SubstiTUBE T8 EM Value 4000 K, 6500 K; lampholder G13

| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|--|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------|--------|--------|
| | | | | | | C0 | C90 |
| For ambient temperature $t_a = 35^\circ\text{C}$ - body: grey polycarbonate - diffuser: transparent polycarbonate - lampholder G13 | | | | | | | |
| PRIMA LED TUBE 1x60 PC | 800* | 710 | 7,6 | 93 | 0,8 | 662 | 350 |
| PRIMA LED TUBE 1x120 PC | 1700* | 1510 | 16,2 | 93 | 1,7 | 1272 | 700 |
| PRIMA LED TUBE 1x150 PC | 2000* | 1780 | 19,1 | 93 | 1,9 | 1572 | 940 |
| PRIMA LED TUBE 2x60 PC | 1600* | 1420 | 15,2 | 93 | 1,1 | 662 | 350 |
| PRIMA LED TUBE 2x120 PC | 3400* | 3030 | 32,4 | 94 | 2,1 | 1272 | 700 |
| PRIMA LED TUBE 2x150 PC | 4000* | 3560 | 38,2 | 93 | 2,5 | 1572 | 940 |

* - total luminous flux of the light fitting with Osram SubstiTUBE T8 EM Value sources

PRIMA LED TUBE PC

| Code | Type |
|-------|-------------------------|
| 37510 | PRIMA LED TUBE 1x60 PC |
| 37520 | PRIMA LED TUBE 1x120 PC |
| 37530 | PRIMA LED TUBE 1x150 PC |
| 37540 | PRIMA LED TUBE 2x60 PC |
| 37550 | PRIMA LED TUBE 2x120 PC |
| 37560 | PRIMA LED TUBE 2x150 PC |

For LED tubes Osram SubstiTUBE T8 EM Value - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 37511 | 37513 | x | x | x | x |
| 37521 | 37523 | x | x | x | x |
| 37531 | 37533 | x | x | x | x |
| 37541 | 37543 | 37544 | 37545 | 37546 | 37547 |
| 37551 | 37553 | 37554 | 37555 | 37556 | 37557 |
| 37561 | 37563 | 37564 | 37565 | 37566 | 37567 |

PRIMA LED TUBE PCc

| Code | Type |
|-------|--------------------------|
| 37610 | PRIMA LED TUBE 1x60 PCc |
| 37620 | PRIMA LED TUBE 1x120 PCc |
| 37630 | PRIMA LED TUBE 1x150 PCc |
| 37640 | PRIMA LED TUBE 2x60 PCc |
| 37650 | PRIMA LED TUBE 2x120 PCc |
| 37660 | PRIMA LED TUBE 2x150 PCc |

For LED tubes Osram SubstiTUBE T8 EM Value - stainless clips [c]

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 37611 | 37613 | x | x | x | x |
| 37621 | 37623 | x | x | x | x |
| 37631 | 37633 | x | x | x | x |
| 37641 | 37643 | 37644 | 37645 | 37646 | 37647 |
| 37651 | 37653 | 37654 | 37655 | 37656 | 37657 |
| 37661 | 37663 | 37664 | 37665 | 37666 | 37667 |

Example of type marking: 37653 = PRIMA LED TUBE 2x120 PCc 3F

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories

**LIGHT FITTING DETAILED VIEW**

PRIMA LED TUBE



PRIMA LED TUBE SLIM

NEW



... dustproof, waterproof and impact-resistant.

USE

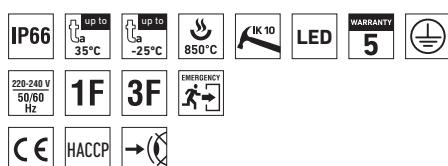
The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals and utility structures without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

[It is necessary to consider exhalation in the air which can reduce the usability of the plastic at installations in an aggressive environment, see also page 367].

ADVANTAGES

- Light fitting protection **IP66**
- Diffuser: transparent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Constant luminous flux even in ambient temperature of -25 °C
- Through-wiring of up to 10 wires at bodies of 2x120 and 2x150 type light fittings
- It can be delivered in emergency version



PRIMA LED TUBE SLIM PC, PCc

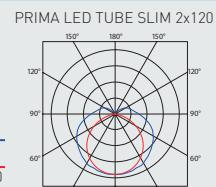


TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: **101 lm/W**
- The watt and lumen values can vary by $\pm 7,5\%$
- Diffuser: transparent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: rubber (SBS)
- Distance part: polyamide + 10 % glass fibre
- Terminal block: screwless, three-pole (basic version)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: for LED tubes Osram SubstiTUBE T8 EM Value 4000 K, 6500 K; lampholder G13

| Code | Type | Luminous flux of LED modules [lm]* | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|-------|------------------------------|--|---|-----------------------------|------------------------------|-----------------------|-----------|-----------|
| | | For ambient temperature $t_a = 35^\circ\text{C}$ - body: grey polycarbonate - diffuser: transparent polycarbonate - lampholder G13 | | | | | | |
| 11468 | PRIMA LED TUBE SLIM 2x60 PC | 1600* | 1540 | 15,2 | 101 | 1,0 | 662 | 350 |
| 11469 | PRIMA LED TUBE SLIM 2x120 PC | 3400* | 3260 | 32,4 | 101 | 2,0 | 1272 | 700 |
| 11470 | PRIMA LED TUBE SLIM 2x150 PC | 4000* | 3840 | 38,2 | 101 | 2,4 | 1572 | 940 |

* - total luminous flux of the light fitting with Osram SubstiTUBE T8 EM Value sources



PRIMA LED TUBE SLIM PC

| Code | Type |
|-------|------------------------------|
| 11468 | PRIMA LED TUBE SLIM 2x60 PC |
| 11469 | PRIMA LED TUBE SLIM 2x120 PC |
| 11470 | PRIMA LED TUBE SLIM 2x150 PC |

For LED tubes Osram SubstiTUBE T8 EM Value - plastic clips

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 11471 | 11474 | 11477 | 11480 | 11483 | 11486 |
| 11472 | 11475 | 11478 | 11481 | 11484 | 11487 |
| 11473 | 11476 | 11479 | 11482 | 11485 | 11488 |

PRIMA LED TUBE SLIM PCc

| Code | Type |
|-------|-------------------------------|
| 11489 | PRIMA LED TUBE SLIM 2x60 PCc |
| 11490 | PRIMA LED TUBE SLIM 2x120 PCc |
| 11491 | PRIMA LED TUBE SLIM 2x150 PCc |

For LED tubes Osram SubstiTUBE T8 EM Value - stainless clips [c]

| | | | | | |
|-------|-------|-------|-------|-------|-------|
| 11492 | 11495 | 11498 | 11501 | 11504 | 11507 |
| 11493 | 11496 | 11499 | 11502 | 11505 | 11508 |
| 11494 | 11497 | 11500 | 11503 | 11506 | 11509 |

Example of type marking: 11491 = PRIMA LED TUBE SLIM 2x120 PCc 3F

LEGEND

- 1F** 1-phase 3 core through-wiring in the luminaire
3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
M3h emergency back-up source with 3 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall - is not included in accessories



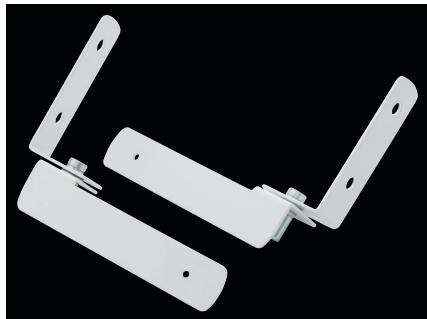
LIGHT FITTING DETAILED VIEW

PRIMA LED TUBE SLIM



BZ – side hanger

It serves to attach the light fitting to the wall with the possibility of its positioning.



| Code | Type | Description | Weight [kg] |
|-------|------|---|-------------|
| 90002 | BZ | side hanger with blocking (set for 1 light fitting) | 0,4 |

Canalis busbar system connector

The connector enables a quick 1 phase or 3 phase interconnection of light fittings without their opening.



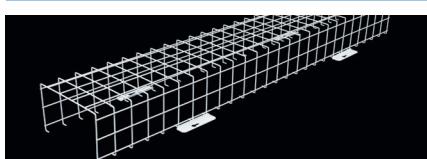
| Code | Type | Description | Weight [kg] |
|-------|--------------|---|-------------|
| 79001 | KBA 40 ZU | light fitting suspended holder - Canalis KBA system | 0,1 |
| 70002 | KBC 10 CC211 | connector with 1 m cable - Canalis KBA system | 0,2 |

Stucchi or Wieland connector

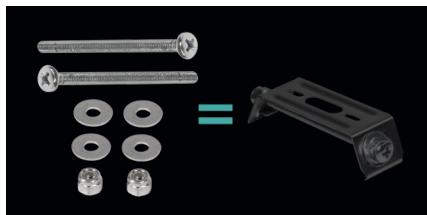
The connector enables a quick 1 phase or 3 phase interconnection of light fittings without their opening.

**OM – protective grid**

The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws. The surface is treated with the RAL 9003 powder-coated colour.



| Code | Type | Description | Weight [kg] |
|-------|--------|---|-------------|
| 11941 | OM 218 | protective grid for types 218, 214/224, x.2ft (700×220×130 mm) | 1,0 |
| 11942 | OM 236 | protective grid for types 236, 228/254, x.4ft (1300×220×130 mm) | 1,7 |
| 11943 | OM 258 | protective grid for types 258, 235/249/280, x.5ft (1600×220×130 mm) | 2,0 |

Locking set for bracket G3

| Code | Type | Description | Weight [kg] |
|-------|--------|---|-------------|
| 11553 | G3 SET | a locking set for G3 stainless steel bracket (bolts, nuts, washers) | 0,2 |

CONCEPT RED



... for cows in the barns, chemically resistant.

USE

Cows barely detect a red light and therefore it is a perfect solution for illumination of barns when workers have to work with the animals during a time of the day when the cows have night. We know that cows need eight hours a day of darkness to be able to rest well. This solution saves you money and allows you to go on your rounds or carry out work without disturbing the cows.

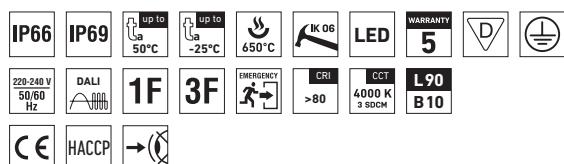
It can be integrated into our INNOVA and FUTURA lighting.

The light fixtures withstand exposure to chemically aggressive environments (ammonia in the air) typical of livestock farms.

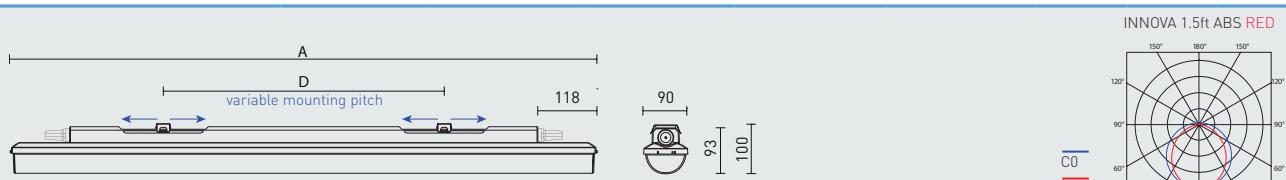
The body made of ABS and the diffuser made of PC have increased chemical resistance.

In addition to being protected against dust and humidity (IP66), the fixtures boast excellent thermal resistance, withstanding temperatures up to 50 °C.

IP69-rated, our INNOVA-range fittings may be washed using hot water (up to 80 °C).

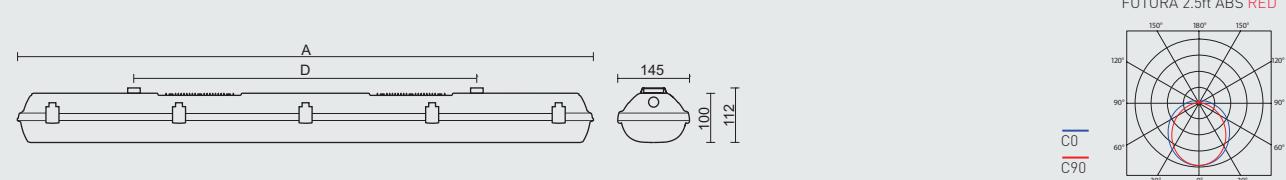


INNOVA



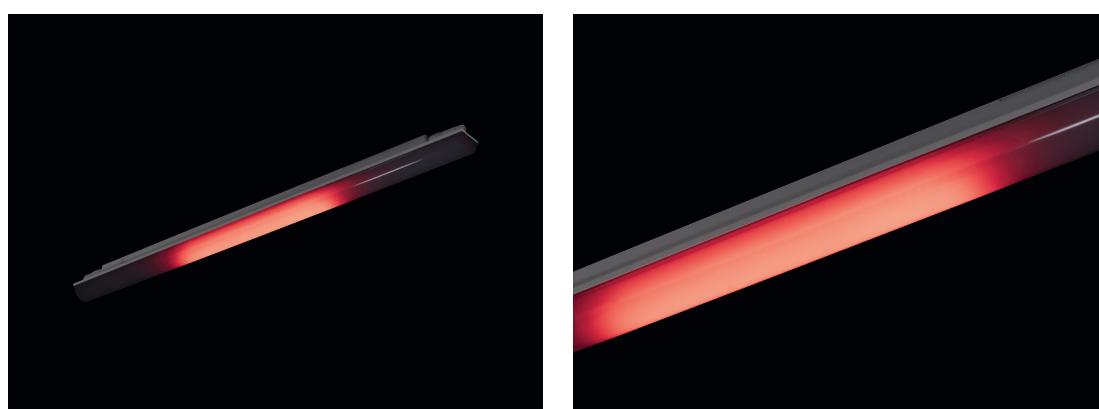
| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|-------------------------------|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------|--------|---------|
| EXAMPLE | | | | | | | | |
| INNOVA 1.5ft ABS 4000/840 | 50 | 4000 | 3570 | 27 | 132 | 1,8 | 1455 | 700-980 |
| INNOVA 1.5ft ABS 4000/840 RED | 50 | 4000 / 620 | 3570 / 550 | 27 / 12 | 132 / 45 | 2,0 | 1455 | 700-980 |

FUTURA



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|--------------------------------|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------|--------|--------|
| EXAMPLE | | | | | | | | |
| FUTURA 2.5ft ABS 11000/840 | 45 | 11000 | 9620 | 71 | 135 | 3,9 | 1452 | 940 |
| FUTURA 2.5ft ABS 11000/840 RED | 45 | 11000 / 620 | 9620 / 550 | 71 / 12 | 135 / 45 | 4,1 | 1452 | 940 |

LUMINAIRES FITTED WITH A RED LIGHT MODULE – DEMO



CONCEPT BLUE



... for poultry farms, chemically resistant.

USE

Light fixtures fitted with our special blue light producing LED module are primarily designed **to be used in poultry farms**. The benefit of this specific colour is it calms the poultry and suppresses aggressive its behavior.

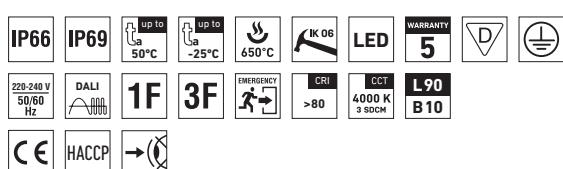
The light fixtures contain only the blue light LED module.

Our INNOVA, and FUTURA-range luminaires may be fitted with this module.

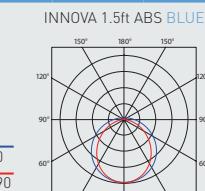
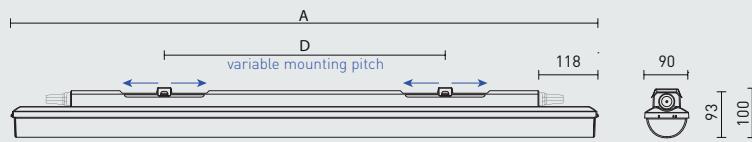
The light fixtures withstand exposure to chemically aggressive environments (ammonia in the air) typical of livestock farms.

The body made of ABS and the diffuser made of AC have increased chemical resistance. In addition to being protected against dust and humidity (IP66), the fixtures boast excellent thermal resistance, withstanding temperatures up to 50 °C.

IP69-rated, our INNOVA-range fittings may be washed using hot water (up to 80 °C).

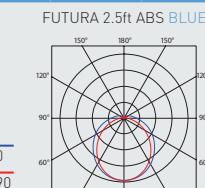
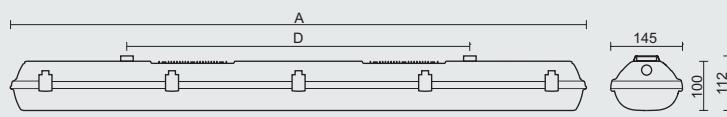


INNOVA



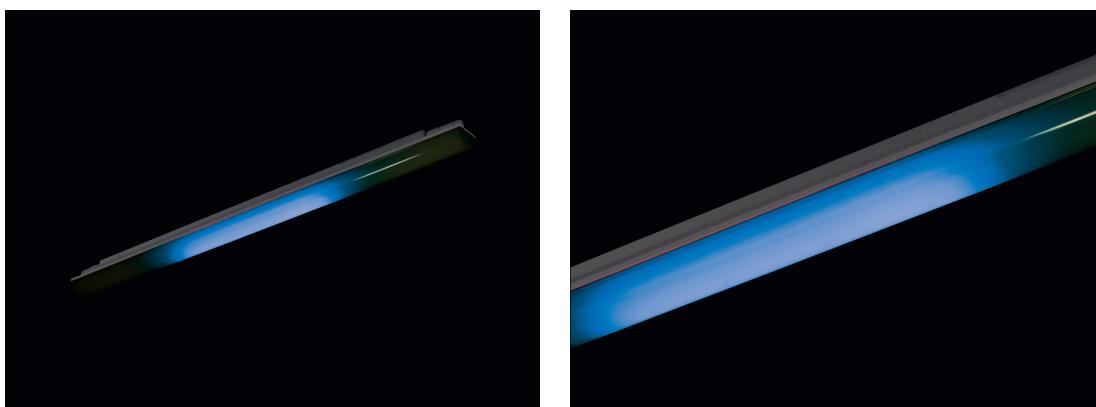
| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|---------------------------------------|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------|--------|---------|
| EXAMPLE | | | | | | | | |
| INNOVA 1.5ft ABS 4000/840 | 50 | 4000 | 3570 | 27 | 132 | 1,8 | 1455 | 700-980 |
| INNOVA 1.5ft ABS 4000/840 BLUE | 50 | 4000 / 640 | 3570 / 560 | 27 / 16 | 132 / 35 | 2,0 | 1455 | 700-980 |

FUTURA



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|--|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------|--------|--------|
| EXAMPLE | | | | | | | | |
| FUTURA 2.5ft ABS 11000/840 | 45 | 11000 | 9620 | 71 | 135 | 3,9 | 1452 | 940 |
| FUTURA 2.5ft ABS 11000/840 BLUE | 45 | 11000 / 640 | 9620 / 560 | 71 / 16 | 135 / 35 | 4,1 | 1452 | 940 |

LUMINAIRES FITTED WITH A BLUE LIGHT MODULE – DEMO



HUMAN CENTRIC LIGHTING



... to boost circadian rhythms.

INTRODUCING HUMAN CENTRIC LIGHTING

Ours is an era when people spend a big part of their day indoors in artificial light. Human centric lighting (HCL) is designed to mimic natural daylight as closely as possible to match the ideal circadian rhythms and thereby improve motivation and productivity, enhance concentration and promote well-being at workplace.

Adjustability of correlated colour temperature (CCT) to suit different tasks and times of day is a major benefit of HCL. While low CCT (warm) light helps users to calm down such as when facing high stress, cooler white light (high CCT) energizes and boosts productivity and creativity.

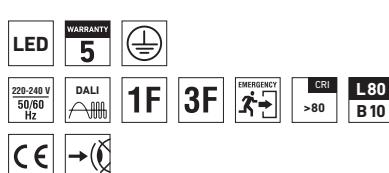
Here is how HCL works. Imagine you and your children are waking up on a Monday morning. Warm, lower intensity light at sunrise will give your family a soft start to the day while cooler light will help you concentrate at the important meeting later on. Switching back to warm light later in the afternoon is what people normally do because it promotes relaxation. However,

if you have to work late today to meet a rapidly approaching deadline, sticking to cooler light longer will help you stay alert and creative. In contrast, a few hours later, with the children in bed and a productive day behind you, it is finally time to enjoy a bit of a me time, perhaps with a book in your lap. Whatever the way you choose to wind down before going to sleep, warm light will help you do just that. And it will take some of the strain off your eyes too.

HCL is commonly used in offices, hospitals, schools, libraries and care homes but is recently also gaining popularity in residential spaces as well as in industrial and agricultural facilities.

SPECIFICATIONS

- Lifetime: 50,000 hours (L80B10)
- Constant light output (CLO) for the duration of the product's lifetime (if fitted with a DALI)
- Emergency version available
- Controlled through a mobile app installed on your smartphone or tablet
- Adjustable correlated colour temperature (CCT)
- Dimming
- Lighting planning with time programmes
- Creation of separately controlled groups and scenes possible
- Simple system adjustment and extension



NANOTTICA

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|--------------------------------------|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------|--------|------------|
| EXAMPLE | | | | | | | | |
| NANOTTICA 1.5ft ABSc 5500/827-865 TW | 45 | 5500 | 4670 | 39 | 126 | 2,0 | 1455 | 970 - 1230 |

LINEA

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|-----------------------------|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------|--------|--------|
| EXAMPLE | | | | | | | | |
| LINEA 1.4ft 4400/827-865 TW | 35 | 4400 | 3720 | 30 | 124 | 1,9 | 1160 | 650 |

NAOS

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|----------------------------|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------|--------|--------|
| EXAMPLE | | | | | | | | |
| NAOS 1.5ft 5500/827-865 TW | 35 | 5500 | 4500 | 39 | 115 | 4,4 | 1460 | 1310 |

CRI > 80

| Type | Luminous flux of LED modules [lm] | Power consumption [W] |
|-------------------------------------|---|-----------------------------|
| CRI > 80 | | |
| Luminaire 1.2ft TW xx 2200/827-865 | 2200 | 16 |
| Luminaire 1.4ft TW xx 4400/827-865 | 4400 | 31 |
| Luminaire 1.5ft TW xx 5500/827-865 | 5500 | 39 |
| Luminaire 2.2ft TW xx 4400/827-865 | 4400 | 31 |
| Luminaire 2.4ft TW xx 8800/827-865 | 8800 | 62 |
| Luminaire 2.5ft TW xx 11000/827-865 | 11000 | 78 |

Example: PRIMA LED 1.5ft TW PC 5500/827-865

CRI > 90

| Type | Luminous flux of LED modules [lm] | Power consumption [W] |
|------------------------------------|---|-----------------------------|
| CRI > 90 | | |
| Luminaire 1.2ft TW xx 3200/927-965 | 3200 | 29 |
| Luminaire 1.4ft TW xx 6400/927-965 | 6400 | 49 |
| Luminaire 1.5ft TW xx 8000/927-965 | 8000 | 60 |

Example: NAOS 1.2ft TW 3200/927-965

LEGEND

- xx** – materials (PC, ABS, applicable for the luminaires INNOVA, FUTURA and PRIMA LED)
TW – HUMAN CENTRIC LIGHTING

A TW module is available for most of our luminaires:

Industrial fittings:

NANOTTICA
INNOVA
FUTURA
PRIMA LED
PERUN SLIM
ALUMAX LED

Indoor fittings:

LINEA and LINEA SQUARE
BELTR LED
NAOS
LUXOR LED

LUMINAIRES FITTED WITH A TUNABLE WHITE LIGHT MODULE – DEMO





TrEx



INDUSTRIAL
STEEL / INOX
DUSTPROOF
WATERPROOF



TrEx – industrial metal LED light fitting for the environment with a danger of explosion

TrEx
page 228



IP66

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page 228

TrEx
ACCESSORIES
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TrEx
ACCESSORIES
page 232

TrEx



... for explosion hazard environment group II, category 2 (zone 1, 21 and 2, 22).

USE

The metal light fitting with satinated tempered safety glass is suitable for environment with hazard of explosion of gases, vapours and dust for zones 1, 21 and 2,22. It meets the requirements of the European Community Directive No. 2014/34/EU. It is resistant against chemically aggressive environment, therefore it fits for industrial premises like chemical factories, plants for processing of gases and oil, power plants, army facilities, automotive factories, laboratories and other facilities of heavy and mechanical engineering. The light fitting in IP66 protection is resistant against dust and splashing water.

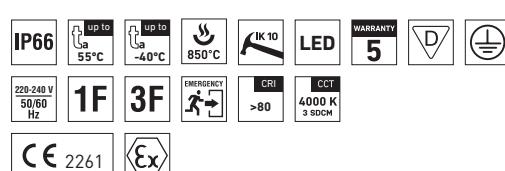
USE IN ENVIRONMENT WITH HAZARD OF EXPLOSION

| | | |
|--------------------------|--|--------------------------------------|
| TÜV CY 21 ATEX 0206562X | Light fitting with disconnector | Ex II 2G Ex db eb mb op is IIC T4 Gb |
| | Light fitting Mxh with disconnector | Ex II 2D Ex tb IIIC T68°C Db |
| | Light fitting without disconnector | Ex II 2G Ex eb mb op is IIC T4 Gb |
| | Light fitting Mxh without disconnector | Ex II 2D Ex tb IIIC T68°C Db |
| AR19ATEX131U | Ex battery box HM 4Ah | Ex II 2G Ex d IIC T4 Gb |
| TÜV CY 20 ATEX 0206368 U | Ex disconnector OT 2A-2C Ex d | Ex II 2G Ex db IIC Gb |

The basic requirements for safety and health protection are secured by verification of conformity with EN 60079-0, EN 60079-7, EN 60079-18, EN 60079-1, EN 60079-28 and EN 60079-31.

ADVANTAGES

- Light fitting protection **IP66**
- High temperature resistance on a range from $t_a = -40^\circ\text{C}$ to $t_a = 55^\circ\text{C}$
- For hazardous areas of zones 1, 21 and 2, 22
- Lifetime: 75 000 hours / L80B50 at $t_a = 55^\circ\text{C}$, 110 000 hours / L70B50 at $t_a = 55^\circ\text{C}$
- Cable glands: plastic ATEX M20×1,5, or metallic (INOX version on request)
- Wide fixing options including recessed frame for false ceiling
- Up to 45 % lower power consumption as compared to fluorescent tubes
- Constant luminous flux even at ambient temperature of -40°C
- Standard model CRI > 80: 4000 K, at request CRI > 80: 3000 K, 5000 K, 5700 K
- Optional through-wiring of up to 7 wires at reflector



TrEx



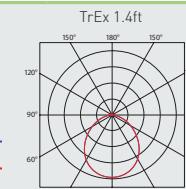
TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Minimum ambient temperature: $t_a = -40^\circ\text{C}$
- Maximum ambient temperature: $t_a = 55^\circ\text{C}$
- Ambient temperature: $t_a = 0 - 40^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 147 lm/W
- CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 75 000 hours / L80B50 at $t_a = 55^\circ\text{C}$, 110 000 hours / L70B50 at $t_a = 55^\circ\text{C}$
- Body: powder coated steel sheet RAL 9003, or INOX (AISI 304)
- Diffuser: satinated tempered safety glass
- Sealing: glued EPDM
- Cable glands: plastic ATEX M20×1,5, or metallic (INOX version on request)
- Terminal block: ATEX, screwless WAGO, Cable cross-section max: 4 mm²

- Installation: the package includes suspensory eyes 2×M6
- Electric equipment: LED modules, current driver, disconnector and Ex battery box with ATEX certificate
- The watt and lumen values can vary by ± 7,5 %

AT REQUEST

- CRI > 80: 3000 K, 5000 K, 5700 K
- Halogen-free wires
- Design modification for fixing and connecting in the false ceiling
- Diffuser: transparent tempered safety glass
- Cable glands: metal or armoured ATEX cable glands M20×1,5 or M25×1,5
- Increased number of cable entries on sides and in upper part of light fitting if recessed frame for false ceiling mounted



| Type | Min. and max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | System input [W] | System efficiency [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|---|--|-----------------------------------|-------------------------------------|------------------|--------------------------|-----------------|--------|--------|
| Light fitting without a battery system | | | | | | | | |
| TrEx 1.2ft 3200/840 | -40 / 55 | 2800 | 2350 | 19 | 123 | 8,3 | 730 | 350 |
| TrEx 1.2ft 4400/840 | -40 / 55 | 4000 | 3360 | 27 | 124 | 8,3 | 730 | 350 |
| TrEx 1.4ft 6400/840 | -40 / 55 | 5600 | 4700 | 35 | 134 | 14,6 | 1300 | 700 |
| TrEx 1.4ft 8800/840 | -40 / 55 | 8000 | 6720 | 50 | 134 | 14,6 | 1300 | 700 |
| TrEx 1.5ft 8000/840 | -40 / 55 | 7000 | 5880 | 40 | 147 | 17,3 | 1580 | 700 |
| TrEx 1.5ft 11000/840 | -40 / 55 | 10000 | 8400 | 59 | 142 | 17,3 | 1580 | 700 |
| TrEx 2.2ft 6400/840 | -40 / 55 | 5600 | 4700 | 35 | 134 | 8,9 | 730 | 350 |
| TrEx 2.2ft 8800/840 | -40 / 50 | 8000 | 6720 | 50 | 134 | 8,9 | 730 | 350 |
| TrEx 2.4ft 12800/840 | -40 / 55 | 11200 | 9400 | 67 | 140 | 16,0 | 1300 | 700 |
| TrEx 2.4ft 17600/840 | -40 / 50 | 16000 | 13440 | 100 | 134 | 16,0 | 1300 | 700 |
| TrEx 2.5ft 16000/840 | -40 / 55 | 14000 | 11760 | 80 | 147 | 18,9 | 1580 | 700 |
| TrEx 2.5ft 22000/840 | -40 / 50 | 20000 | 16800 | 121 | 138 | 18,9 | 1580 | 700 |
| EM emergency lighting kit | | | | | | | | |
| TrEx 1.2ft 4400/840 Mxh | 0 / 40 | 990 | 630 | 2 | NiCd HT | +1,3 | | |
| TrEx 1.4ft 8800/840 Mxh | 0 / 40 | 790 | 580 | 2 | NiCd HT | +1,3 | | |

TrEx DIS

| Code | Type |
|-------|--------------------------|
| 10339 | TrEx 1.2ft 3200/840 DIS |
| 10341 | TrEx 1.2ft 4400/840 DIS |
| 10342 | TrEx 1.4ft 6400/840 DIS |
| 10343 | TrEx 1.4ft 8800/840 DIS |
| 10346 | TrEx 1.5ft 8000/840 DIS |
| 10347 | TrEx 1.5ft 11000/840 DIS |
| 10348 | TrEx 2.2ft 6400/840 DIS |
| 10349 | TrEx 2.2ft 8800/840 DIS |
| 10351 | TrEx 2.4ft 12800/840 DIS |
| 10352 | TrEx 2.4ft 17600/840 DIS |
| 10353 | TrEx 2.5ft 16000/840 DIS |
| 10356 | TrEx 2.5ft 22000/840 DIS |

Light fitting with disconnector

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 10357 | 10379 | x | x | x | x |
| 10358 | 10382 | 10409 | 10429 | 10445 | 10451 |
| 10359 | 10388 | x | x | x | x |
| 10361 | 10389 | 10418 | 10438 | 10447 | 10453 |
| 10362 | 10392 | x | x | x | x |
| 10363 | 10398 | x | x | x | x |
| 10366 | 10399 | x | x | x | x |
| 10367 | 10402 | x | x | x | x |
| 10368 | 10404 | x | x | x | x |
| 10369 | 10405 | x | x | x | x |
| 10372 | 10406 | x | x | x | x |
| 10378 | 10407 | x | x | x | x |

TrEx

| Code | Type |
|-------|----------------------|
| 10219 | TrEx 1.2ft 3200/840 |
| 10222 | TrEx 1.2ft 4400/840 |
| 10224 | TrEx 1.4ft 6400/840 |
| 10225 | TrEx 1.4ft 8800/840 |
| 10226 | TrEx 1.5ft 8000/840 |
| 10227 | TrEx 1.5ft 11000/840 |
| 10228 | TrEx 2.2ft 6400/840 |
| 10229 | TrEx 2.2ft 8800/840 |
| 10231 | TrEx 2.4ft 12800/840 |
| 10232 | TrEx 2.4ft 17600/840 |
| 10233 | TrEx 2.5ft 16000/840 |
| 10236 | TrEx 2.5ft 22000/840 |

Light fitting without disconnector

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 10237 | 10253 | x | x | x | x |
| 10238 | 10256 | 10289 | 10298 | 10318 | 10334 |
| 10239 | 10257 | x | x | x | x |
| 10241 | 10258 | 10294 | 10302 | 10322 | 10336 |
| 10242 | 10259 | x | x | x | x |
| 10243 | 10262 | x | x | x | x |
| 10246 | 10268 | x | x | x | x |
| 10247 | 10269 | x | x | x | x |
| 10248 | 10272 | x | x | x | x |
| 10249 | 10278 | x | x | x | x |
| 10251 | 10279 | x | x | x | x |
| 10252 | 10282 | x | x | x | x |

TrEx DIS INOX

| Code | Type |
|-------|-------------------------------|
| 10519 | TrEx 1.2ft 3200/840 DIS INOX |
| 10521 | TrEx 1.2ft 4400/840 DIS INOX |
| 10522 | TrEx 1.4ft 6400/840 DIS INOX |
| 10523 | TrEx 1.4ft 8800/840 DIS INOX |
| 10526 | TrEx 1.5ft 8000/840 DIS INOX |
| 10527 | TrEx 1.5ft 11000/840 DIS INOX |
| 10528 | TrEx 2.2ft 6400/840 DIS INOX |
| 10529 | TrEx 2.2ft 8800/840 DIS INOX |
| 10531 | TrEx 2.4ft 12800/840 DIS INOX |
| 10532 | TrEx 2.4ft 17600/840 DIS INOX |
| 10533 | TrEx 2.5ft 16000/840 DIS INOX |
| 10536 | TrEx 2.5ft 22000/840 DIS INOX |

Light fitting with disconnector, body steel sheet grade AISI 304

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 10537 | 10572 | x | x | x | x |
| 10538 | 10574 | 10602 | 10616 | 10623 | 10632 |
| 10539 | 10575 | x | x | x | x |
| 10542 | 10576 | 10609 | 10618 | 10627 | 10636 |
| 10548 | 10577 | x | x | x | x |
| 10549 | 10578 | x | x | x | x |
| 10552 | 10579 | x | x | x | x |
| 10558 | 10582 | x | x | x | x |
| 10559 | 10588 | x | x | x | x |
| 10562 | 10589 | x | x | x | x |
| 10568 | 10592 | x | x | x | x |
| 10569 | 10598 | x | x | x | x |

TrEx INOX

| Code | Type |
|-------|---------------------------|
| 10456 | TrEx 1.2ft 3200/840 INOX |
| 10457 | TrEx 1.2ft 4400/840 INOX |
| 10458 | TrEx 1.4ft 6400/840 INOX |
| 10459 | TrEx 1.4ft 8800/840 INOX |
| 10460 | TrEx 1.5ft 8000/840 INOX |
| 10461 | TrEx 1.5ft 11000/840 INOX |
| 10462 | TrEx 2.2ft 6400/840 INOX |
| 10463 | TrEx 2.2ft 8800/840 INOX |
| 10464 | TrEx 2.4ft 12800/840 INOX |
| 10465 | TrEx 2.4ft 17600/840 INOX |
| 10466 | TrEx 2.5ft 16000/840 INOX |
| 10467 | TrEx 2.5ft 22000/840 INOX |

Light fitting without disconnector, body steel sheet grade AISI 304

| 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|-------|-------|-------|--------|--------|
| 10468 | 10480 | x | x | x | x |
| 10469 | 10481 | 10493 | 10499 | 10505 | 10512 |
| 10470 | 10482 | x | x | x | x |
| 10471 | 10483 | 10495 | 10501 | 10507 | 10516 |
| 10472 | 10484 | x | x | x | x |
| 10473 | 10485 | x | x | x | x |
| 10474 | 10486 | x | x | x | x |
| 10475 | 10487 | x | x | x | x |
| 10476 | 10488 | x | x | x | x |
| 10477 | 10489 | x | x | x | x |
| 10478 | 10490 | x | x | x | x |
| 10479 | 10491 | x | x | x | x |

LEGEND

| | |
|---------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire |
| 3F | 3-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |

DIS – light fitting with disconnector

CERTIFICATION

| TÜV CY 21 ATEX 0206562X - TrEx, TrEx Mxh | |
|--|----------------------------|
| Directive | Standards |
| 2014/34/EU | EN 60079-0:2012 + A11:2013 |
| | EN IEC 60079-0:2018 |
| | EN 60079-1:2014 |
| | EN 60079-7:2015 |
| | EN 60079-18:2015 |
| | EN 60079-28:2015 |
| | EN 60079-31:2014 |
| | EN 60598-1:2015 |
| | EN 60598-2-1:89 |
| | EN 62471:2008 |
| 2014/35/EU | EN 55015:2013 |
| | EN 60598-2-22:2014 |
| | EN 61547:2009 |
| | EN 61000-3-2:14 |
| | EN 61000-3-3:13 |
| 2011/65/EN | RoHS |
| | EN 50581:2012 |

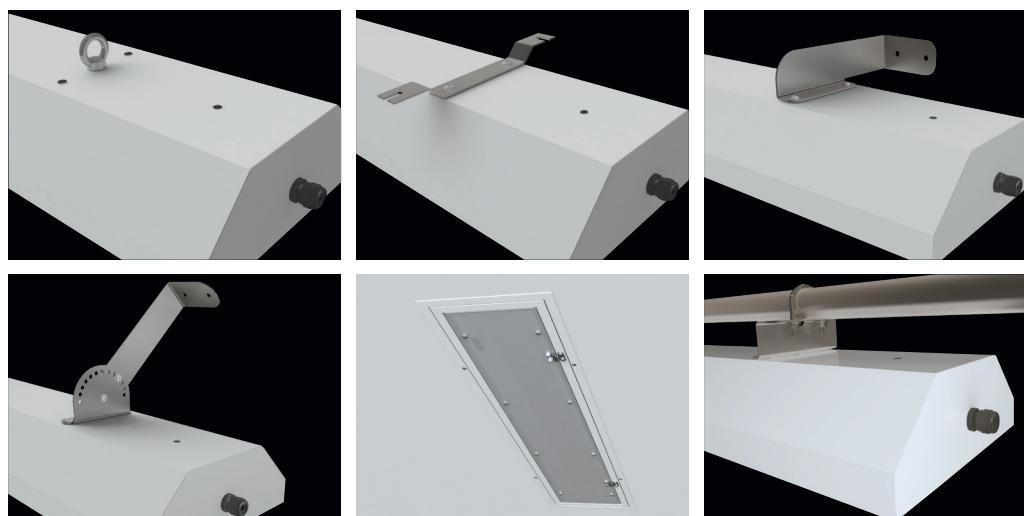
| AR19ATEX131U - Ex battery box HM4Ah | |
|-------------------------------------|---------------------|
| Directive | Standards |
| 2014/34/EU | ATEX |
| | EN IEC 60079-0:2018 |
| | EN 60079-1:2014 |

| TÜV CY 20 ATEX 0206368 U - Ex disconnector OT 2A-2C Ex d | |
|--|---------------------|
| Directive | Standards |
| 2014/34/EU | ATEX |
| | EN IEC 60079-0:2018 |
| | EN 60079-1:2014 |

LIGHT FITTING ATTACHMENT

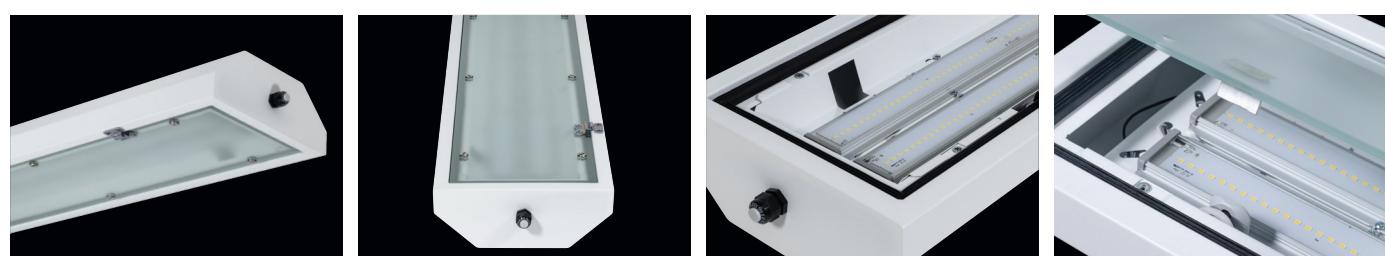
- a) Suspension eyes 2×M6 - in standard model
- b) Holders directly on the ceiling
- c) Side suspensions on the wall

- d) Adjustable side suspensions on the wall
- e) Recessed frame for false ceiling
- f) Holders on tube structures



LIGHT FITTING DETAILED VIEW

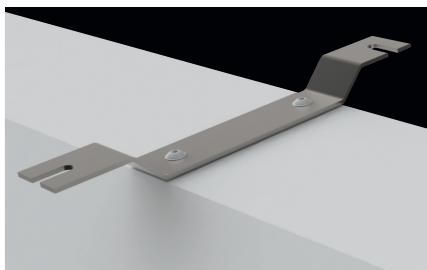
TrEx



version with disconnector

Ceiling suspension

Serves for hanging the light fitting on the ceiling.



| Code | Type | Description | Weight [kg] |
|-------|------------------------|---|-------------|
| 62694 | TrEx suspension 3 | Metal holder for direct suspending on the ceiling. Holder - 2 pcs, screw M6×16 - 4 pcs assembly. | 0,6 |
| 62695 | TrEx suspension 3 INOX | Stainless-steel holder for direct suspending on the ceiling. Holder - 2 pcs, screw M6×16 - 4 pcs for assembling. | 0,6 |

Side suspension

Serves for firm fixation of the light fitting on the wall.



| Code | Type | Description | Weight [kg] |
|-------|------------------------|---|-------------|
| 62690 | TrEx suspension 1 | Metal holder for direct suspension on the wall. Holder - 2 pcs, screw M6×16 - 4 pcs for assembling | 1,4 |
| 62691 | TrEx suspension 1 INOX | Stainless-steel holder for direct suspension on the wall. Holder - 2 pcs, screw M6×16 - 4 pcs for assembling | 1,4 |

Adjustable side suspension

Serves for hanging the light fitting on the wall, ceiling, sloped surfaces, and enables positioning the light fitting from 0 to 90°, with a step of 15°.



| Code | Type | Description | Weight [kg] |
|-------|------------------------|---|-------------|
| 62692 | TrEx suspension 2 | Metal holder for direct suspending on the wall or ceiling. Holder - 2 pcs, screw M6×16 - 8 pcs for assembling. | 1,5 |
| 62693 | TrEx suspension 2 INOX | Stainless-steel holder for direct suspending on the wall and ceiling. Holder - 2 pcs, screw M6×16 - 8 pcs for assembling. | 1,5 |

Pipeline holder

Serves for suspending the light fitting to tube structures with a diameter of ¾" – 2" by means of pipeline clamps.



| Code | Type | Description | Weight [kg] |
|-------|------------------|--|-------------|
| 62696 | TrEx holder | Metal holder for direct suspending on the tube structures. Holder - 2 pcs, screw M6×16 - 4 pcs, nut M8 - 4 pcs, washer 8.2 - 4 pcs, pipeline clamp ETR M8 - 2 pcs for assembling. | 0,8 |
| 62697 | TrEx holder INOX | Stainless-steel holder for direct suspending to tube structures. Holder - 2 pcs, screw M6×16 - 4 pcs, nut M8 - 4 pcs, washer 8.2 - 4 pcs, pipeline clamp ETR M8 - 2 pcs for assembling. | 0,8 |

Recessed frame for false ceiling

Serves for fixing the light fitting into the false ceiling by means of a recessed frame and modified customize body. For ceiling thickness 0-24 mm.



| Type | Description |
|--------------------------------|--|
| TrEx fixture body with a frame | Raster ceiling mounted fixture body, frame, screw M6×16 - 4 pcs, screw M6×60 - 4 pcs, washer 6,2 - 4 pcs, suspension M6 for plasterboard - 4 pcs for assembling. |

Please, contact our sales representative to order a raster ceiling mounted fixture body with a frame.



PERUN SLIM



INDUSTRIAL
STAINLESS
DUSTPROOF
WATERPROOF



PERUN SLIM – industrial metal LED light fitting

PERUN SLIM
page 236



IP65

PERUN SLIM
page 236

PERUN SLIM Ex
page 239



IP65

PERUN SLIM Ex
page 239

PERUN SLIM



... stainless, dustproof, waterproof.

USE

The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, garages, workshops, sports areas, transport terminals, utility structures, agricultural operations and laboratories without a danger of explosion of gas, dust and combustible fumes.

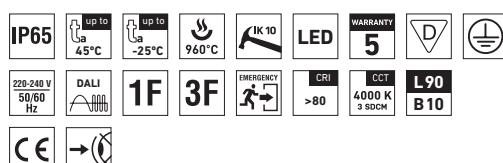
The light fitting is resistant to deformation, dust, spouting water and have increased chemical resistance.

Characteristics of the used tempered glass and its shattering power are controlled by the ČSN EN 12150-1 standard. For applications where spontaneous fracture means a higher safety risk, we recommend to use the version with the safety film (SF).

ADVANTAGES

- Light fitting protection **IP65**
- Maximum ambient temperature up to **t_a = 45°C**
- Lifetime: 50,000 hours / L90B10
- High chemical and mechanical robustness IK10
- Diffuser: satinated tempered safety glass
- Body: stainless sheet
- Up to 45 % lower electricity consumption when compared to tubes T5
- It can be delivered in dimmable or permanent emergency version M1h and M3hAt

- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K



PERUN SLIM



TECHNICAL DESCRIPTION

- Light fitting protection: IP65
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ with a back-up power supply M1h, M3hAt
- Maximum system efficacy: 140 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: satinated tempered safety glass
- Possibility of delivery of the diffuser with a safety foil (SF)
- Possibility of delivery of an EM kit M1h with battery autotesting

- Body: stainless sheet, impact-resistant, chemically resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: stainless
- Sealing: silicone, at light fitting body
- Cable glands: PG 13.5 brass with surface treatment
- Terminal block: screwless, three-pole (basic version)
- The package includes: stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Ambient temperature [°C] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|--------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| Body: stainless sheet - diffuser: polished thermally toughened safety glass | | | | | | | | |
| PERUN SLIM 1.2ft 1300/840 | -25 45 | 1050 | 8,2 | 128 | 19,5 / 20,3 | 2,4 | 680 | 360 |
| PERUN SLIM 1.2ft 1600/840 | -25 45 | 1250 | 9,8 | 128 | 20,1 / 20,9 | 2,4 | 680 | 360 |
| PERUN SLIM 1.2ft 2200/840 | -25 45 | 1710 | 13,2 | 130 | 21,2 / 22,0 | 2,4 | 680 | 360 |
| PERUN SLIM 1.4ft 2600/840 | -25 45 | 2080 | 16,1 | 129 | 19,6 / 20,4 | 4,3 | 1290 | 850 |
| PERUN SLIM 1.4ft 3200/840 | -25 45 | 2480 | 19,1 | 130 | 20,2 / 21,1 | 4,3 | 1290 | 850 |
| PERUN SLIM 1.4ft 4400/840 | -25 45 | 3440 | 26,0 | 132 | 21,4 / 22,2 | 4,3 | 1290 | 850 |
| PERUN SLIM 1.4ft 6400/840 | -25 40 | 4900 | 36,1 | 136 | 22,6 / 23,4 | 4,3 | 1290 | 850 |
| PERUN SLIM 1.5ft 3250/840 | -25 45 | 2590 | 19,5 | 133 | 19,6 / 20,5 | 5,3 | 1600 | 1050 |
| PERUN SLIM 1.5ft 4000/840 | -25 45 | 3080 | 23,3 | 132 | 20,2 / 21,1 | 5,3 | 1600 | 1050 |
| PERUN SLIM 1.5ft 5500/840 | -25 45 | 4270 | 31,9 | 134 | 21,4 / 22,2 | 5,3 | 1600 | 1050 |
| PERUN SLIM 1.5ft 8000/840 | -25 40 | 6220 | 44,3 | 140 | 22,7 / 23,5 | 5,3 | 1600 | 1050 |

86720 PERUN SLIM 1.2ft 1600/840 = suitable replacement for T8 fl. tube light fitting PERUN 118 - 1 × 18 W

86750 PERUN SLIM 1.4ft 3200/840 = suitable replacement for T8 fl. tube light fitting PERUN 136 - 1 × 36 W

86770 PERUN SLIM 1.4ft 6400/840 = suitable replacement for T8 fl. tube light fitting PERUN 236 - 2 × 36 W

86790 PERUN SLIM 1.5ft 4000/840 = suitable replacement for T8 fl. tube light fitting PERUN 158 - 1 × 58 W

86810 PERUN SLIM 1.5ft 8000/840 = suitable replacement for T8 fl. tube light fitting PERUN 258 - 2 × 58 W

PERUN SLIM

Non-dimmable driver, diffuser: polished thermally toughened safety glass

| Code | Type | 1F | 3F | M1h | M3hAt | 3F M1h | 3F M3hAt |
|-------|---------------------------|-------|-------|-------|-------|--------|----------|
| 86710 | PERUN SLIM 1.2ft 1300/840 | 86711 | 86713 | x | x | x | x |
| 86720 | PERUN SLIM 1.2ft 1600/840 | 86721 | 86723 | x | x | x | x |
| 86730 | PERUN SLIM 1.2ft 2200/840 | 86731 | 86733 | x | x | x | x |
| 86740 | PERUN SLIM 1.4ft 2600/840 | 86741 | 86743 | 86744 | 86745 | 86746 | 86747 |
| 86750 | PERUN SLIM 1.4ft 3200/840 | 86751 | 86753 | 86754 | 86755 | 86756 | 86757 |
| 86760 | PERUN SLIM 1.4ft 4400/840 | 86761 | 86763 | 86764 | 86765 | 86766 | 86767 |
| 86770 | PERUN SLIM 1.4ft 6400/840 | 86771 | 86773 | x | x | x | x |
| 86780 | PERUN SLIM 1.5ft 3250/840 | 86781 | 86783 | 86784 | 86785 | 86786 | 86787 |
| 86790 | PERUN SLIM 1.5ft 4000/840 | 86791 | 86793 | 86794 | 86795 | 86796 | 86797 |
| 86800 | PERUN SLIM 1.5ft 5500/840 | 86801 | 86803 | 86804 | 86805 | 86806 | 86807 |
| 86810 | PERUN SLIM 1.5ft 8000/840 | 86811 | 86813 | x | x | x | x |

PERUN SLIM DALI

Digital dimmable driver DALI, diffuser: polished thermally toughened safety glass

| Code | Type | 1F | 3F | M1h | M3hAt | 3F M1h | 3F M3hAt |
|-------|--------------------------------|-------|-------|-------|-------|--------|----------|
| 86820 | PERUN SLIM 1.2ft 1300/840 DALI | 86821 | x | x | x | x | x |
| 86830 | PERUN SLIM 1.2ft 1600/840 DALI | 86831 | x | x | x | x | x |
| 86840 | PERUN SLIM 1.2ft 2200/840 DALI | 86841 | x | x | x | x | x |
| 86850 | PERUN SLIM 1.4ft 2600/840 DALI | 86851 | 86853 | 86854 | 86855 | 86856 | 86857 |
| 86860 | PERUN SLIM 1.4ft 3200/840 DALI | 86861 | 86863 | 86864 | 86865 | 86866 | 86867 |
| 86870 | PERUN SLIM 1.4ft 4400/840 DALI | 86871 | 86873 | 86874 | 86875 | 86876 | 86877 |
| 86880 | PERUN SLIM 1.4ft 6400/840 DALI | 86881 | 86883 | x | x | x | x |
| 86890 | PERUN SLIM 1.5ft 3250/840 DALI | 86891 | 86893 | 86894 | 86895 | 86896 | 86897 |
| 86900 | PERUN SLIM 1.5ft 4000/840 DALI | 86901 | 86903 | 86904 | 86905 | 86906 | 86907 |
| 86910 | PERUN SLIM 1.5ft 5500/840 DALI | 86911 | 86913 | 86914 | 86915 | 86916 | 86917 |
| 86920 | PERUN SLIM 1.5ft 8000/840 DALI | 86921 | 86923 | x | x | x | x |

Example of type marking: 86916 = PERUN SLIM 1.5ft 5500/840 **3F M1h**

LEGEND

| | | | |
|---------------|--|--------------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire | DALI | version with digital dimmable driver DALI |
| 3F | 3-phase 5 core through-wiring in the luminaire | DALI 1F | 1-phase 5 core through-wiring in the luminaire |
| M1h | emergency back-up source with 1 hour operating time for maintained emergency illumination | DALI 3F | 3-phase 7 core through-wiring in the luminaire |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination | DALI 3F Mxh | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |
| 3F Mxh | 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) | | |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
 b) Suspension with the use of stainless hooks

**LIGHT FITTING DETAILED VIEW**

PERUN SLIM



PERUN SLIM Ex

NEW



... for explosion hazard environment group II, category 3 (zone 2, 22).

USE

The light fitting is suitable for the environment with a danger of explosion of gas, dust and combustible fumes. The light fittings meet the requirements of European Community Directive No.2014/34/EU.

The light fitting is certified for the environment:
Ex II 3G Ex nR IIC T6 Gc
Ex II 3D Ex tc IIIC T70°C Dc

The basic requirements for safety and health protection are secured by the verification of conformity with the standards according to EN 60079-15, EN 60079-0 and EN 60079-31.

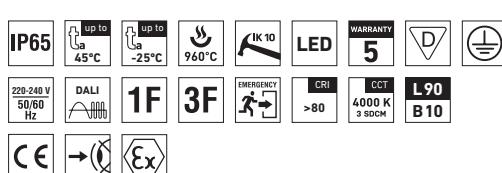
The light fitting is resistant to deformation, dust, spouting water and have increased chemical resistance.

Characteristics of the used tempered glass and its shattering power are controlled by the EN 12150-1 standard. For applications where spontaneous fracture means a higher safety risk.

ADVANTAGES

- Light fitting protection **IP65**
- Maximum ambient temperature up to **t_a = 45°C**
- Lifetime: 50,000 hours / L90B10
- High chemical and mechanical robustness IK10
- Diffuser: satinated tempered safety glass
- Body: stainless sheet
- Up to 45 % lower electricity consumption when compared to tubes T5
- It can be delivered in dimmable or permanent emergency version M3h

- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Certification: TÜV CY 23 ATEX 0206818 X

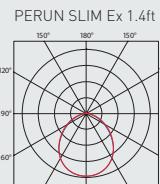
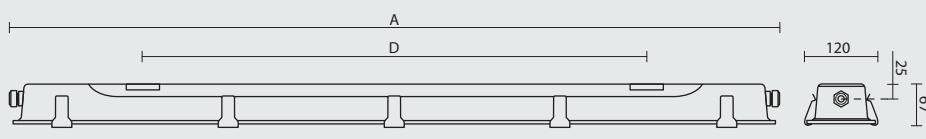


PERUN SLIM Ex



TECHNICAL DESCRIPTION

- Light fitting protection: IP65
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ with a back-up power supply M3h
- Maximum system efficacy: 141 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: satinated tempered safety glass
- Body: stainless sheet, impact-resistant, chemically resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: stainless
- Sealing: silicone, at light fitting body
- Cable glands: M20x1.5 ATEX - plastic, stainless or brass with surface treatment
- Terminal block: screwless, three-pole (basic version)
- The package includes: stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI



| Type | Ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|--------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| Body: stainless sheet - diffuser: satinated tempered safety glass | | | | | | | | | |
| PERUN SLIM Ex 1.2ft 1600/840 | -25/45 | 1820 | 1460 | 11,4 | 128 | 20.6 / 21.5 | 2,4 | 680 | 360 |
| PERUN SLIM Ex 1.2ft 2200/840 | -25/45 | 2500 | 2000 | 15,4 | 130 | 21.7 / 22.6 | 2,4 | 680 | 360 |
| PERUN SLIM Ex 1.4ft 3200/840 | -25/45 | 3620 | 2900 | 22,2 | 131 | 20.8 / 21.6 | 4,3 | 1290 | 850 |
| PERUN SLIM Ex 1.4ft 4400/840 | -25/45 | 5020 | 4020 | 30,3 | 133 | 21.9 / 22.7 | 4,3 | 1290 | 850 |
| PERUN SLIM Ex 1.4ft 6400/840 | -25/40 | 7140 | 5710 | 42,1 | 136 | 23.1 / 24.0 | 4,3 | 1290 | 850 |
| PERUN SLIM Ex 1.4ft 8800/840 | -25/40 | 10140 | 8110 | 57,9 | 140 | 24.3 / 25.2 | 4,3 | 1290 | 850 |
| PERUN SLIM Ex 1.5ft 4000/840 | -25/45 | 4490 | 3590 | 27,1 | 132 | 20.8 / 21.6 | 5,3 | 1600 | 1050 |
| PERUN SLIM Ex 1.5ft 5500/840 | -25/45 | 6230 | 4980 | 37,2 | 134 | 21.9 / 22.7 | 5,3 | 1600 | 1050 |
| PERUN SLIM Ex 1.5ft 8000/840 | -25/40 | 9080 | 7260 | 51,6 | 141 | 23.2 / 24.0 | 5,3 | 1600 | 1050 |
| PERUN SLIM Ex 1.5ft 11000/840 | -25/40 | 12310 | 9850 | 71,1 | 139 | 24.3 / 25.1 | 5,3 | 1600 | 1050 |

PERUN SLIM Ex

Non-dimmable driver, diffuser: polished thermally toughened safety glass

| Code | Type |
|--------|-------------------------------|
| 103435 | PERUN SLIM Ex 1.2ft 1600/840 |
| 103436 | PERUN SLIM Ex 1.2ft 2200/840 |
| 103437 | PERUN SLIM Ex 1.4ft 3200/840 |
| 103438 | PERUN SLIM Ex 1.4ft 4400/840 |
| 103439 | PERUN SLIM Ex 1.4ft 6400/840 |
| 103440 | PERUN SLIM Ex 1.4ft 8800/840 |
| 103441 | PERUN SLIM Ex 1.5ft 4000/840 |
| 103442 | PERUN SLIM Ex 1.5ft 5500/840 |
| 103443 | PERUN SLIM Ex 1.5ft 8000/840 |
| 103444 | PERUN SLIM Ex 1.5ft 11000/840 |

| 1F | 3F | M3h | 3F M3h |
|--------|--------|--------|--------|
| 103445 | 103455 | x | x |
| 103446 | 103456 | x | x |
| 103447 | 103457 | 103465 | 103473 |
| 103448 | 103458 | 103466 | 103474 |
| 103449 | 103459 | x | x |
| 103450 | 103460 | x | x |
| 103451 | 103461 | 103469 | 103477 |
| 103452 | 103462 | 103470 | 103478 |
| 103453 | 103463 | x | x |
| 103454 | 103464 | x | x |

PERUN SLIM Ex DALI

| Code | Type |
|--------|------------------------------------|
| 103481 | PERUN SLIM Ex 1.2ft 1600/840 DALI |
| 103482 | PERUN SLIM Ex 1.2ft 2200/840 DALI |
| 103483 | PERUN SLIM Ex 1.4ft 3200/840 DALI |
| 103484 | PERUN SLIM Ex 1.4ft 4400/840 DALI |
| 103485 | PERUN SLIM Ex 1.4ft 6400/840 DALI |
| 103486 | PERUN SLIM Ex 1.4ft 8800/840 DALI |
| 103487 | PERUN SLIM Ex 1.5ft 4000/840 DALI |
| 103488 | PERUN SLIM Ex 1.5ft 5500/840 DALI |
| 103489 | PERUN SLIM Ex 1.5ft 8000/840 DALI |
| 103490 | PERUN SLIM Ex 1.5ft 11000/840 DALI |

| 1F | 3F | M3h | 3F M3h |
|--------|--------|--------|--------|
| 103491 | 103501 | x | x |
| 103492 | 103502 | x | x |
| 103493 | 103503 | 103511 | 103519 |
| 103494 | 103504 | 103512 | 103520 |
| 103495 | 103505 | x | x |
| 103496 | 103506 | x | x |
| 103497 | 103507 | 103515 | 103523 |
| 103498 | 103508 | 103516 | 103524 |
| 103499 | 103509 | x | x |
| 103500 | 103510 | x | x |

Example of type marking: 103478 = PERUN SLIM Ex 1.5ft 5500/840 3F M3h

LEGEND

| | | | |
|---------------|--|--------------------|--|
| 1F | 1-phase 3 core through-wiring in the luminaire | DALI | version with digital dimmable driver DALI |
| 3F | 3-phase 5 core through-wiring in the luminaire | DALI 1F | 1-phase 5 core through-wiring in the luminaire |
| M3h | emergency back-up source with 3 hour operating time for maintained emergency illumination | DALI 3F | 3-phase 7 core through-wiring in the luminaire |
| 3F M3h | 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) | DALI 3F M3h | 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply) |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks

**LIGHT FITTING DETAILED VIEW**

PERUN SLIM Ex



ALUMAX LED



INDUSTRIAL
DUSTPROOF
WATERPROOF
ALUMINIUM PROFILE



ALUMAX LED – industrial metal LED light fitting

ALUMAX LED
page 244



IP66

ALUMAX LED
page 244

ALUMAX LED FOR
EXTREME TEMPERATURES
page 247



IP66

ALUMAX LED MAX
page 247

ALUMAX LED
ACCESSORIES
page 250



ALUMAX LED
ACCESSORIES
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ALUMAX LED



... aluminium, dustproof, waterproof, chemically resistant.

USE

The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, garages, workshops, sports areas, transport terminals, utility structures, agricultural operations and laboratories without a danger of explosion of gas, dust and combustible fumes.

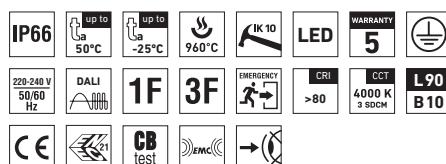
The light fitting is resistant to deformation, dust, spouting water and chemically aggressive environment.

Characteristics of the used tempered glass and its shattering power are controlled by the ČSN EN 12150-1 standard.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: satinated tempered safety glass
- Body: grey aluminium profile, surface treated with powder-coated colour
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)

- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Certification: ENEC, CB



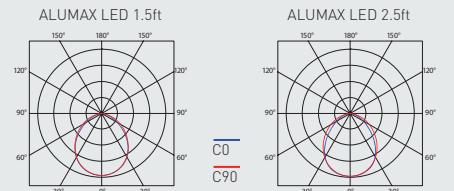
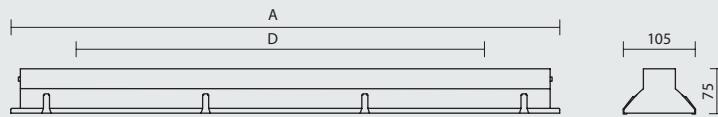
ALUMAX LED



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ with a back-up power supply M1h, M3h
- Maximum system efficacy: 132 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: satinated tempered safety glass
- Body: grey aluminium profile, surface treated with powder-coated colour
- Reflector: steel sheet, white colour (RAL 9003)

- Clips: stainless
- Sealing: polyurethane (PUR) in body groove
- Side covers: grey aluminium alloy with plastic side plates for fixation and suspension of glass at assembly, surface treated with powder-coated colour
- Terminal block: screwless, three-pole (basic version)
- Cable glands: brass M18x1,5
- Installation: package contains stainless sheet suspension brackets and FeZn sliding hangers
- Electric equipment: LED modules, current driver or current driver DALI



| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---------------------------------|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| Diffuser made of tempered glass | | | | | | | | | |
| ALUMAX LED 1.2ft 1300/840 | 50 | 1310 | 1000 | 8,2 | 122 | 20,5 / 22,0 | 2,2 | 624 | 534 |
| ALUMAX LED 1.2ft 1600/840 | 50 | 1560 | 1190 | 9,8 | 121 | 21,1 / 22,6 | 2,2 | 624 | 534 |
| ALUMAX LED 1.2ft 2200/840 | 45 | 2140 | 1630 | 13,2 | 123 | 22,2 / 23,7 | 2,2 | 624 | 534 |
| ALUMAX LED 1.4ft 2600/840 | 50 | 2600 | 1980 | 16,1 | 123 | 20,1 / 21,6 | 4,2 | 1224 | 1134 |
| ALUMAX LED 1.4ft 3200/840 | 50 | 3100 | 2360 | 19,1 | 124 | 20,7 / 22,2 | 4,2 | 1224 | 1134 |
| ALUMAX LED 1.4ft 4400/840 | 45 | 4300 | 3270 | 26,0 | 126 | 21,8 / 23,3 | 4,2 | 1224 | 1134 |
| ALUMAX LED 1.5ft 3250/840 | 50 | 3240 | 2460 | 19,5 | 126 | 20,0 / 21,6 | 5,0 | 1524 | 1434 |
| ALUMAX LED 1.5ft 4000/840 | 50 | 3850 | 2930 | 23,3 | 126 | 20,6 / 22,2 | 5,0 | 1524 | 1434 |
| ALUMAX LED 1.5ft 5500/840 | 45 | 5340 | 4060 | 31,9 | 127 | 21,8 / 23,3 | 5,0 | 1524 | 1434 |
| ALUMAX LED 2.2ft 2600/840 | 50 | 2600 | 1950 | 16,1 | 121 | 22,4 / 24,4 | 2,4 | 624 | 534 |
| ALUMAX LED 2.2ft 3200/840 | 50 | 3100 | 2330 | 19,1 | 122 | 23,0 / 25,0 | 2,4 | 624 | 534 |
| ALUMAX LED 2.2ft 4400/840 | 45 | 4300 | 3230 | 26,0 | 124 | 24,1 / 26,2 | 2,4 | 624 | 534 |
| ALUMAX LED 2.4ft 5200/840 | 50 | 5230 | 3920 | 30,3 | 129 | 22,0 / 24,0 | 4,3 | 1224 | 1134 |
| ALUMAX LED 2.4ft 6400/840 | 50 | 6240 | 4680 | 36,3 | 129 | 22,6 / 24,6 | 4,3 | 1224 | 1134 |
| ALUMAX LED 2.4ft 8800/840 | 45 | 8690 | 6520 | 49,7 | 131 | 23,8 / 25,8 | 4,3 | 1224 | 1134 |
| ALUMAX LED 2.5ft 6500/840 | 50 | 6500 | 4880 | 37,1 | 132 | 22,0 / 24,0 | 5,3 | 1524 | 1434 |
| ALUMAX LED 2.5ft 8000/840 | 50 | 7770 | 5830 | 44,4 | 131 | 22,6 / 24,6 | 5,3 | 1524 | 1434 |
| ALUMAX LED 2.5ft 11000/840 | 45 | 12310 | 9230 | 71,1 | 130 | 24,2 / 26,2 | 5,3 | 1524 | 1434 |

50450 ALUMAX LED 1.4ft 3200/840 = suitable replacement for ALUMAX 136 E – 1×36 W

50480 ALUMAX LED 1.5ft 4000/840 = suitable replacement for ALUMAX 158 E – 1×58 W

50550 ALUMAX LED 2.4ft 6400/840 = suitable replacement for ALUMAX 236 E – 2×36 W

50580 ALUMAX LED 2.5ft 8000/840 = suitable replacement for ALUMAX 258 E – 2×58 W

ALUMAX LED

Diffuser made of tempered glass, stainless clips

| Code | Type | 1F | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|----------------------------|-------|-------|-------|-------|--------|--------|
| 50410 | ALUMAX LED 1.2ft 1300/840 | x | x | 50414 | x | x | x |
| 50420 | ALUMAX LED 1.2ft 1600/840 | x | x | 50424 | x | x | x |
| 50430 | ALUMAX LED 1.2ft 2200/840 | x | x | 50434 | x | x | x |
| 50440 | ALUMAX LED 1.4ft 2600/840 | 50441 | 50443 | 50444 | 50445 | 50447 | 50448 |
| 50450 | ALUMAX LED 1.4ft 3200/840 | 50451 | 50453 | 50454 | 50455 | 50457 | 50458 |
| 50460 | ALUMAX LED 1.4ft 4400/840 | 50461 | 50463 | 50464 | 50465 | 50467 | 50468 |
| 50470 | ALUMAX LED 1.5ft 3250/840 | 50471 | 50473 | 50474 | 50475 | 50477 | 50478 |
| 50480 | ALUMAX LED 1.5ft 4000/840 | 50481 | 50483 | 50484 | 50485 | 50487 | 50488 |
| 50490 | ALUMAX LED 1.5ft 5500/840 | 50491 | 50493 | 50494 | 50495 | 50497 | 50498 |
| 50510 | ALUMAX LED 2.2ft 2600/840 | x | x | 50514 | x | x | x |
| 50520 | ALUMAX LED 2.2ft 3200/840 | x | x | 50524 | x | x | x |
| 50530 | ALUMAX LED 2.2ft 4400/840 | x | x | 50534 | x | x | x |
| 50540 | ALUMAX LED 2.4ft 5200/840 | 50541 | 50543 | 50544 | 50545 | 50547 | 50548 |
| 50550 | ALUMAX LED 2.4ft 6400/840 | 50551 | 50553 | 50554 | 50555 | 50557 | 50558 |
| 50560 | ALUMAX LED 2.4ft 8800/840 | 50561 | 50563 | x | x | x | x |
| 50570 | ALUMAX LED 2.5ft 6500/840 | 50571 | 50573 | 50574 | 50575 | 50577 | 50578 |
| 50580 | ALUMAX LED 2.5ft 8000/840 | 50581 | 50583 | 50584 | 50585 | 50587 | 50588 |
| 50590 | ALUMAX LED 2.5ft 11000/840 | 50591 | 50593 | x | x | x | x |

Example of type marking: 50555 = ALUMAX LED 2.4ft 6400/840 M3h

ALUMAX LED DALI

Digital dimmable driver DALI, diffuser made of tempered glass, stainless clips

| Code | Type | 3F | M1h | M3h | 3F M1h | 3F M3h |
|-------|---------------------------------|-------|-------|-------|--------|--------|
| 50610 | ALUMAX LED 1.2ft 1300/840 DALI | x | 50614 | x | x | x |
| 50620 | ALUMAX LED 1.2ft 1600/840 DALI | x | 50624 | x | x | x |
| 50630 | ALUMAX LED 1.2ft 2200/840 DALI | x | 50634 | x | x | x |
| 50640 | ALUMAX LED 1.4ft 2600/840 DALI | 50643 | 50644 | 50645 | 50647 | 50648 |
| 50650 | ALUMAX LED 1.4ft 3200/840 DALI | 50653 | 50654 | 50655 | 50657 | 50658 |
| 50660 | ALUMAX LED 1.4ft 4400/840 DALI | 50663 | 50664 | 50665 | 50667 | 50668 |
| 50670 | ALUMAX LED 1.5ft 3250/840 DALI | 50673 | 50674 | 50675 | 50677 | 50678 |
| 50680 | ALUMAX LED 1.5ft 4000/840 DALI | 50683 | 50684 | 50685 | 50687 | 50688 |
| 50690 | ALUMAX LED 1.5ft 5500/840 DALI | 50693 | 50694 | 50695 | 50697 | 50698 |
| 50710 | ALUMAX LED 2.2ft 2600/840 DALI | x | x | x | x | x |
| 50720 | ALUMAX LED 2.2ft 3200/840 DALI | x | x | x | x | x |
| 50730 | ALUMAX LED 2.2ft 4400/840 DALI | x | x | x | x | x |
| 50740 | ALUMAX LED 2.4ft 5200/840 DALI | 50743 | 50744 | 50745 | 50747 | 50748 |
| 50750 | ALUMAX LED 2.4ft 6400/840 DALI | 50753 | 50754 | 50755 | 50757 | 50758 |
| 50760 | ALUMAX LED 2.4ft 8800/840 DALI | 50763 | x | x | x | x |
| 50770 | ALUMAX LED 2.5ft 6500/840 DALI | 50773 | 50774 | 50775 | 50777 | 50778 |
| 50780 | ALUMAX LED 2.5ft 8000/840 DALI | 50783 | 50784 | 50785 | 50787 | 50788 |
| 50790 | ALUMAX LED 2.5ft 11000/840 DALI | 50793 | x | x | x | x |

Example of type marking: 50694 = ALUMAX LED 1.5ft 5500/840 DALI **M1h**

LEGEND

1F 1-phase 3 core through-wiring in the luminaire**3F** 3-phase 5 core through-wiring in the luminaire**M1h** emergency back-up source with 1 hour operating time for maintained emergency illumination**M3h** emergency back-up source with 3 hour operating time for maintained emergency illumination**3F Mxh** 3-phase 5 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)**DALI** version with digital dimmable driver DALI**DALI 1F** 1-phase 5 core through-wiring in the luminaire**DALI 3F** 3-phase 7 core through-wiring in the luminaire**DALI 3F Mxh** 3-phase 7 core through-wiring in the luminaire
(L3 used for emergency unit unswitched power supply)

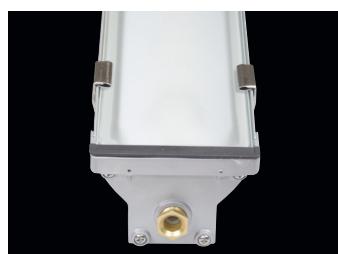
LIGHT FITTING ATTACHMENT

- Directly to a ceiling or a wall with the use of screws and stainless brackets
- To a ceiling or a wall with the use of FeZn sliding hangers in body groove
- Attachment with the use of side hangers to the wall



LIGHT FITTING DETAILED VIEW

ALUMAX LED



ALUMAX LED MAX



... for extreme temperatures -40 °C to +75 °C.

USE

The light fitting is suitable for indoor and outdoor spaces with roof with extreme ambient temperatures from **(-40 °C to +75 °C)**. The light fitting is destined mainly for heating stations, metallurgical lines, glass-works, as well as for freezers, cooling plants and other premises without danger of explosion of gases, dusts and flammable vapors.

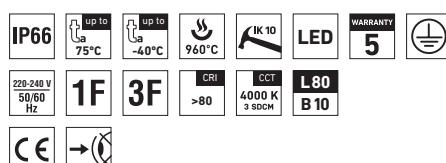
The light fitting is resistant to deformation, dust, spouting water and chemically aggressive environment.

Characteristics of the used tempered glass and its shattering power are controlled by the ČSN EN 12150-1 standard.

ADVANTAGES

- Light fitting protection **IP66**
- Minimum ambient temperature up to **t_a = -40 °C**
- Maximum ambient temperature up to **t_a = 75 °C**
- Lifetime: 50,000 hours / L80B10
- Possibility of using in even higher ambient temperatures under the condition of a shortened service life of the light fitting – parameters solved within a particular project
- Diffuser: satinated tempered safety glass
- Body: grey aluminium profile, surface treated with powder-coated colour

- Up to 45 % lower electricity consumption when compared to tubes T5
- Constant luminous flux even in ambient temperature of -40 °C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K



ALUMAX LED MAX



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Minimum ambient temperature: $t_a = -40^\circ\text{C}$
- Maximum ambient temperature: $t_a = 75^\circ\text{C}$
- Lifetime: 50,000 hours / L80B10
- Possibility of using in even higher ambient temperatures under the condition of a shortened service life of the light fitting – parameters solved within a particular project
- Maximum system efficacy: 131 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Diffuser: satinated tempered safety glass
- Body: grey aluminium profile, surface treated with powder-coated colour

- Reflector: steel sheet, white colour (RAL 9003)
- Ventilation plug: type BVPB-01 made of brass, size M12 x 1,5
- Side covers: grey aluminium alloy with plastic side plates for fixation and suspension of glass at assembly, surface treated with powder-coated colour
- Clips: stainless
- Sealing: polyurethane (PUR) in body groove
- Terminal block: screwless, three-pole (basic version)
- Cable glands: brass M18 x 1,5
- Installation: package contains stainless sheet suspension brackets and FeZn sliding hangers
- Electric equipment: LED modules, current driver

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR | Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-------------|-------------------------|-----------------|--------|--------|
| For ambient temperature up to $t_a = 75^\circ\text{C}$ - body: aluminum profile - diffuser: thermally toughened glass | | | | | | | | | | |
| ALUMAX LED 1.5ft MAX 4000/840 | 75 | 3850 | 2930 | 23,3 | 126 | 20.6 / 22.2 | 5,0 | 1524 | 1434 | |
| ALUMAX LED 1.5ft MAX 5500/840 | 70 | 5340 | 4060 | 31,9 | 127 | 21.8 / 23.3 | 5,0 | 1524 | 1434 | |
| ALUMAX LED 2.4ft MAX 6400/840 | 70 | 6240 | 4680 | 36,3 | 129 | 22.6 / 24.6 | 4,3 | 1224 | 1134 | |
| ALUMAX LED 2.4ft MAX 8800/840 | 65 | 8690 | 6520 | 49,7 | 131 | 23.8 / 25.8 | 4,3 | 1224 | 1134 | |
| ALUMAX LED 2.5ft MAX 8000/840 | 70 | 7770 | 5830 | 44,4 | 131 | 22.6 / 24.6 | 5,3 | 1524 | 1434 | |
| ALUMAX LED 2.5ft MAX 11000/840 | 65 | 12310 | 9230 | 71,1 | 130 | 24.2 / 26.2 | 5,3 | 1524 | 1434 | |

ALUMAX LED MAX

Diffuser: polished thermally toughened glass, stainless clips

| Code | Type | 1F | 3F | M1h | M3h | DALI | DALI 3F |
|-------|--------------------------------|-------|-------|-----|-----|-------|---------|
| 79730 | ALUMAX LED 1.5ft MAX 4000/840 | 79731 | 79733 | x | x | 79735 | 79736 |
| 79700 | ALUMAX LED 1.5ft MAX 5500/840 | 79701 | 79703 | x | x | 79705 | 79706 |
| 79740 | ALUMAX LED 2.4ft MAX 6400/840 | 79741 | 79743 | x | x | 79745 | 79746 |
| 79710 | ALUMAX LED 2.4ft MAX 8800/840 | 79711 | 79713 | x | x | 79715 | 79716 |
| 79750 | ALUMAX LED 2.5ft MAX 8000/840 | 79751 | 79753 | x | x | 79755 | 79756 |
| 79720 | ALUMAX LED 2.5ft MAX 11000/840 | 79721 | 79723 | x | x | 79725 | 79726 |

Example of type marking: 79713 = ALUMAX LED MAX 2.4ft 8800/840 3F

LEGEND

DALI – version with digital dimmable driver DALI**1F** – 1 phase wiring cables for through-wiring**3F** – 3 phase wiring cables for through-wiring

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) To a ceiling or a wall with the use of FeZn sliding hangers in body groove
- c) Attachment with the use of side hangers to the wall

**LIGHT FITTING DETAILED VIEW**

ALUMAX LED MAX

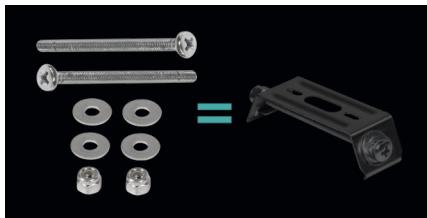


BZ – side hanger

It serves to attach the light fitting to the wall with the possibility of its positioning.



| Code | Type | Description | Weight [kg] |
|-------|------|---|-------------|
| 90002 | BZ | side hanger with blocking (set for 1 light fitting) | 0,4 |

Locking set for bracket G3

| Code | Type | Description | Weight [kg] |
|-------|--------|---|-------------|
| 11553 | G3 SET | a locking set for G3 stainless steel bracket (bolts, nuts, washers) | 0,2 |



CANOPUS



INDUSTRIAL
METAL
FOR HIGH CEILINGS



CANOPUS – industrial metal LED light fitting

CANOPUS
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IP65

CANOPUS
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CANOPUS NB
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CANOPUS NB TR
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CANOPUS HE
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IP65

CANOPUS HE
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CANOPUS
ACCESSORIES
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CANOPUS
ACCESSORIES
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CANOPUS



... dustproof, waterproof, for high ceilings.

USE

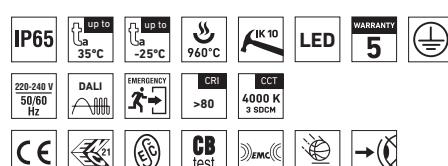
The light fitting is suitable for large operations with high ceilings, industrial outdoor and indoor roofed spaces, warehouses, workshops, sports areas, transport terminals and utility structures without a danger of explosion of gas, dust and combustible fumes.

The light fitting is resistant to deformation, dust and splashing water.

Characteristics of the used tempered glass and its shattering power are controlled by the ČSN EN 12150-1 standard. For applications where spontaneous fracture means a higher safety risk, we recommend to use the version with the safety film (SF).

ADVANTAGES

- Light fitting protection **IP65**
- Maximum ambient temperature up to **t_a = 35°C**
- Lifetime: 50,000 hours / L90B50
- High mechanical robustness IK10
- Diffuser: satinized or transparent tempered safety glass
- Body: steel sheet - white colour (RAL 9003), or inox AISI 304 at request
- Up to 45 % lower electricity consumption when compared to tubes T5
- Possibility of delivery either in a deemed or permanently emergency design M1hAt and M3hAt
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Easy installation with the help of supply connector with cable 0,4 m CYSY 3 x 1,5, without necessity of opening the light fitting
- Certification: ESČ, ENEC, CB, BALL-PROOF

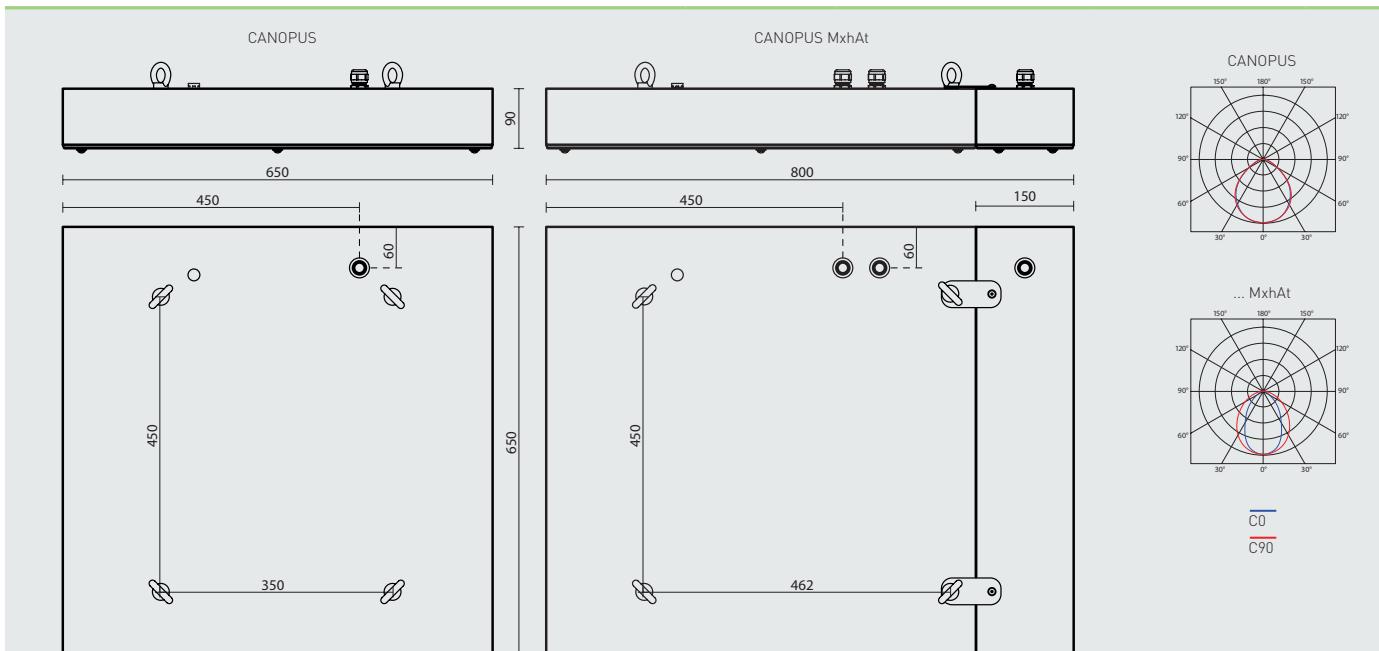


CANOPUS



TECHNICAL DESCRIPTION

- Light fitting protection: IP65
- Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ and for the design with a back-up power supply M1hAt, M3hAt
- Maximum system efficacy: 143 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B50
- Diffuser: satinized tempered safety glass
- Possibility of delivery of the diffuser with a safety foil (SF)
- EM kit with battery autotesting for M1hAt and M3hAt
- Body: steel sheet, white colour (RAL 9003), or inox AISI 304 at request
- Ventilation plug: type BVPB-01 made of polyamide, size M12 x 1.5
- Sealing: EPDM attached to light fitting body
- Terminal block: interconnecting connector, 0.4 m cable
- Installation: all versions delivered including suspension lugs (4 pcs)
- Electric equipment: LED modules, current driver or current driver DALI (2 – 3 pcs depending on type)



| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] |
|--|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|
| For ambient temperature $t_a = 35^\circ\text{C}$ - body: steel sheet, white colour - diffuser: satinized tempered safety glass | | | | | | |
| CANOPUS 22000/840 | 22450 | 18410 | 128,7 | 143 | 23,7 / 23,8 | 11,6 |
| CANOPUS 26000/840 | 26880 | 22040 | 158,3 | 139 | 24,3 / 24,4 | 11,8 |
| CANOPUS 30000/840 | 31360 | 25720 | 184,7 | 139 | 24,9 / 25,0 | 11,8 |

| Type | Autonomy [hrs] | Emergency light flux of light fitting [lm] | Power in standby mode [W] | Battery type | Net weight [kg] |
|--|----------------|--|---------------------------|---------------------|-----------------|
| EM kit for permanent emergency lighting with battery autotesting - diffuser: satinized tempered safety glass | | | | | |
| M1hAt | 1 | 440 | 1,5 | LiFePO ₄ | +4,2 |
| M3hAt | 3 | 440 | 1,5 | LiFePO ₄ | +4,4 |

CANOPUS

| Code | Type | M1hAt | M3hAt | DALI | DALI M1hAt | DALI M3hAt |
|-------|-------------------|-------|-------|-------|------------|------------|
| 74010 | CANOPUS 22000/840 | 74011 | 74013 | 74016 | 74017 | 74018 |
| 74020 | CANOPUS 26000/840 | 74021 | 74023 | 74026 | 74027 | 74028 |
| 74030 | CANOPUS 30000/840 | 74031 | 74033 | 74036 | 74037 | 74038 |

Example of type marking: 74036 = CANOPUS 30000/840 DALI

LEGEND

- DALI** – version with digital dimmable driver DALI (2 – 3 pcs)
- M1hAt** – emergency back-up source with operating time of 1 hour (SA) for permanent illumination with battery autotesting
- M3hAt** – emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting
- Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT

- a) With help of suspension eyes of M6
- b) With help of a holder directly to the ceiling
- c) With the help of adjustable holder directly on the ceiling or on the wall
- d) With help of a chain hinge

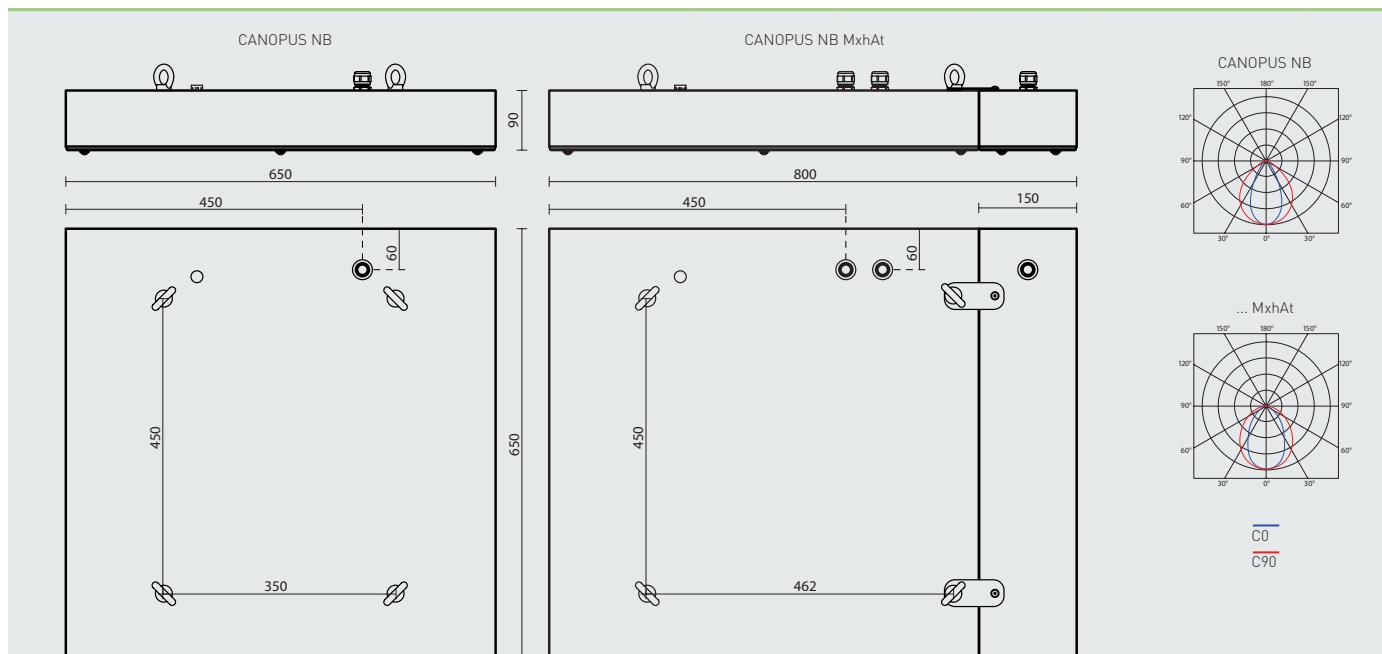
**LIGHT FITTING DETAILED VIEW****LIGHT FITTING DETAILED VIEW WITH AN EMERGENCY MODULE**

CANOPUS NB



TECHNICAL DESCRIPTION

- Light fitting protection: IP65
- Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ and for the design with a back-up power supply M1hAt, M3hAt
- Maximum system efficacy: 145 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B50
- Diffuser: satinized tempered safety glass
- Possibility of delivery of the diffuser with a safety foil (SF)
- EM kit with battery autotesting for M1hAt and M3hAt
- Reflector: parabolic polished aluminium with narrow emitting characteristics (NB - narrow beam)
- Body: steel sheet, white colour (RAL 9003), or inox AISI 304 at request
- Ventilation plug: type BVPB-01 made of polyamide, size M12 x 1.5
- Sealing: EPDM attached to light fitting body
- Terminal block: interconnecting connector, 0.4 m cable
- Installation: all versions delivered including suspension lugs (4 pcs)
- Electric equipment: LED modules, current driver or current driver DALI (2 – 3 pcs depending on type)



| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR longitudinal/transverse | Net weight [kg] |
|---|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|
| For ambient temperature $t_a = 35^\circ\text{C}$ - body: steel sheet, white colour - diffuser: satinized tempered safety glass with parabolic reflector | | | | | | |
| CANOPUS NB 22000/840 | 22450 | 18630 | 128,7 | 145 | 18.2 / 23.5 | 12,3 |
| CANOPUS NB 26000/840 | 26880 | 22310 | 158,3 | 141 | 18.8 / 24.1 | 12,5 |
| CANOPUS NB 30000/840 | 31360 | 26030 | 184,7 | 141 | 19.4 / 24.7 | 12,5 |

| Type | Autonomy [hrs] | Emergency light flux of light fitting [lm] | Power in standby mode [W] | Battery type | Net weight [kg] |
|--|----------------|--|---------------------------|---------------------|-----------------|
| EM kit for permanent emergency lighting with battery autotesting - diffuser: satinized tempered safety glass | | | | | |
| M1hAt | 1 | 440 | 1,5 | LiFePO ₄ | +4,2 |
| M3hAt | 3 | 440 | 1,5 | LiFePO ₄ | +4,4 |

CANOPUS NB

| Code | Type | M1hAt | M3hAt | DALI | DALI M1hAt | DALI M3hAt |
|-------|----------------------|-------|-------|-------|------------|------------|
| 74110 | CANOPUS NB 22000/840 | 74111 | 74113 | 74116 | 74117 | 74118 |
| 74120 | CANOPUS NB 26000/840 | 74121 | 74123 | 74126 | 74127 | 74128 |
| 74130 | CANOPUS NB 30000/840 | 74131 | 74133 | 74136 | 74137 | 74138 |

Example of type marking: 74136 = CANOPUS NB 30000/840 DALI

LEGEND

- DALI** – version with digital dimmable driver DALI (2 – 3 pcs)
- M1hAt** – emergency back-up source with operating time of 1 hour (SA) for permanent illumination with battery autotesting
- M3hAt** – emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting
- Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT

- a) With help of suspension eyes of M6
- b) With help of a holder directly to the ceiling
- c) With the help of adjustable holder directly on the ceiling or on the wall
- d) With help of a chain hinge

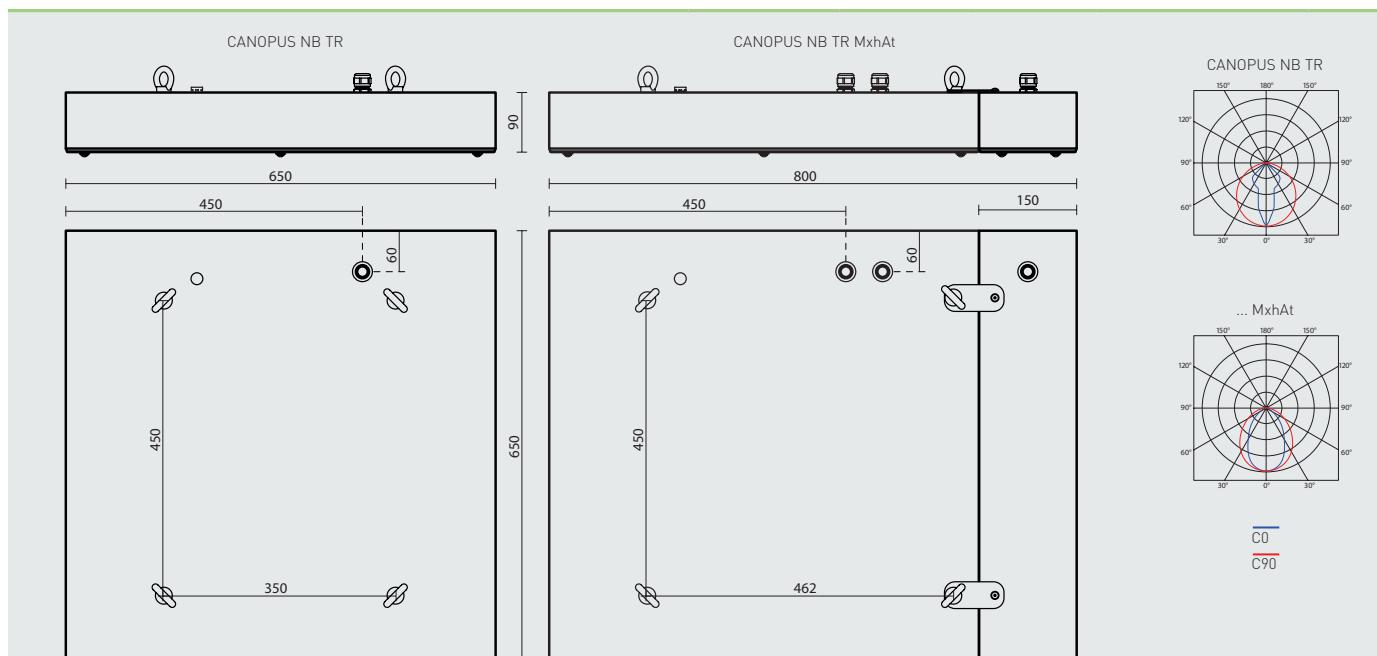
**LIGHT FITTING DETAILED VIEW****LIGHT FITTING DETAILED VIEW WITH AN EMERGENCY MODULE**

CANOPUS NB TR



TECHNICAL DESCRIPTION

- Light fitting protection: IP65
- Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ and for the design with a back-up power supply M1hAt, M3hAt
- Maximum system efficacy: 154 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B50
- Diffuser: transparent tempered safety glass (TR)
- Possibility of delivery of the diffuser with a safety foil (SF)
- EM kit with battery autotesting for M1hAt and M3hAt
- Reflector: parabolic polished aluminium with narrow emitting characteristics (NB - narrow beam)
- Body: steel sheet, white colour (RAL 9003), or inox AISI 304 at request
- Ventilation plug: type BVPB-01 made of polyamide, size M12 x 1.5
- Sealing: EPDM attached to light fitting body
- Terminal block: interconnecting connector, 0.4 m cable
- Installation: all versions delivered including suspension lugs (4 pcs)
- Electric equipment: LED modules, current driver or current driver DALI (2 – 3 pcs depending on type)



| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] |
|--|-----------------------------------|--|---------------------------|------------------------|-----------------------------|-----------------|
| For ambient temperature $t_a = 35^\circ\text{C}$ - body: steel sheet, white colour - diffuser: tempered safety glass with parabolic reflector (TR) | | | | | | |
| CANOPUS NB TR 22000/840 | 22450 | 19760 | 128,7 | 154 | 17.7 / 27.6 | 12,3 |
| CANOPUS NB TR 26000/840 | 26880 | 23650 | 158,3 | 149 | 18.3 / 28.3 | 12,5 |
| CANOPUS NB TR 30000/840 | 31360 | 27600 | 184,7 | 149 | 18.8 / 28.8 | 12,5 |
| Type | Autonomy [hrs] | Emergency light flux of light fitting [lm] | Power in standby mode [W] | Battery type | Net weight [kg] | |
| EM kit for permanent emergency lighting with battery autotesting - diffuser: satinized tempered safety glass | | | | | | |
| M1hAt | 1 | 440 | 1,5 | LiFePO ₄ | +4,2 | |
| M3hAt | 3 | 440 | 1,5 | LiFePO ₄ | +4,4 | |

CANOPUS NB TR

| Code | Type | M1hAt | M3hAt | DALI | DALI M1hAt | DALI M3hAt |
|-------|-------------------------|-------|-------|-------|------------|------------|
| 74210 | CANOPUS NB TR 22000/840 | 74211 | 74213 | 74216 | 74217 | 74218 |
| 74220 | CANOPUS NB TR 26000/840 | 74221 | 74223 | 74226 | 74227 | 74228 |
| 74230 | CANOPUS NB TR 30000/840 | 74231 | 74233 | 74236 | 74237 | 74238 |

Example of type marking: 74236 = CANOPUS NB TR 30000/840 DALI

LEGEND

- DALI** – version with digital dimmable driver DALI (2 – 3 pcs)
- M1hAt** – emergency back-up source with operating time of 1 hour (SA) for permanent illumination with battery autotesting
- M3hAt** – emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting
- Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT

- a) With help of suspension eyes of M6
- b) With help of a holder directly to the ceiling
- c) With the help of adjustable holder directly on the ceiling or on the wall
- d) With help of a chain hinge

**LIGHT FITTING DETAILED VIEW****LIGHT FITTING DETAILED VIEW WITH AN EMERGENCY MODULE**

CANOPUS HE



... high efficiency, for high ceilings, with sulphur-resistant LED chips.

USE

The light fitting is suitable for large operations with high ceilings, industrial outdoor and indoor roofed spaces, warehouses, workshops, sports areas, transport terminals and utility structures without a danger of explosion of gas, dust and combustible fumes.

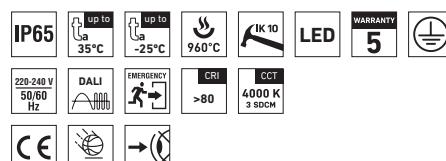
The light fitting is resistant to deformation, dust and splashing water.

Characteristics of the used tempered glass and its shattering power are controlled by the ČSN EN 12150-1 standard. For applications where spontaneous fracture means a higher safety risk, we recommend to use the version with the safety film (SF).

ADVANTAGES

- Light fitting protection **IP65**
- Maximum ambient temperature up to **t_a = 35°C**
- Lifetime: 50,000 hours / L90B50
- High mechanical robustness IK10
- Diffuser: satinized or transparent tempered safety glass
- Body: steel sheet - white colour (RAL 9003), or inox AISI 304 at request
- Up to 45 % lower electricity consumption when compared to tubes T5
- Possibility of delivery either in a deemed or permanently emergency design M1hAt and M3hAt

- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Constant luminous flux even in ambient temperature of -25 °C
- Standard model - CRI > 80; 4000 K
- Easy installation with the help of supply connector with cable 0,4 m CYSY 3 x 1,5, without necessity of opening the light fitting
- **Chips with high sulphur resistance**
- Certification: BALL-PROOF

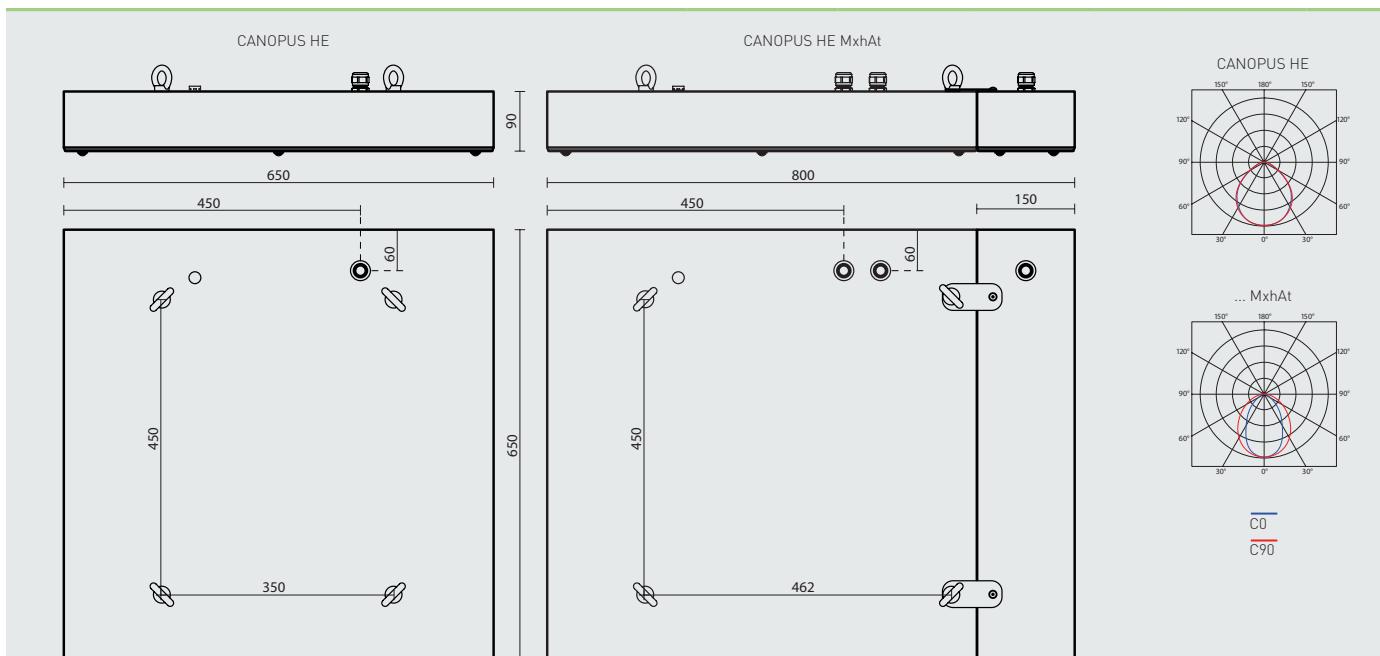


CANOPUS HE



TECHNICAL DESCRIPTION

- Light fitting protection: IP65
- Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ and for the design with a back-up power supply M1hAt, M3hAt
- Maximum system efficacy: 157 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B50
- Diffuser: satinized tempered safety glass
- Possibility of delivery of the diffuser with a safety foil (SF)
- EM kit with battery autotesting for M1hAt and M3hAt
- Body: steel sheet, white colour (RAL 9003), or inox AISI 304 at request
- Ventilation plug: type BVPB-01 made of polyamide, size M12 x 1.5
- Sealing: EPDM attached to light fitting body
- Terminal block: interconnecting connector, 0.4 m cable
- Installation: all versions delivered including suspension lugs (4 pcs)
- Electric equipment: LED sulphur-resistant modules, current driver or current driver DALI (2 - 3 pcs depending on type)



| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] |
|--|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|
| For ambient temperature $t_a = 35^\circ\text{C}$ - body: steel sheet, white colour - diffuser: satinized tempered safety glass | | | | | | |
| CANOPUS HE 22000/840 | 23860 | 19570 | 126,5 | 155 | 23,9 / 24,0 | 11,6 |
| CANOPUS HE 26000/840 | 30010 | 24610 | 156,7 | 157 | 24,7 / 24,8 | 11,8 |
| CANOPUS HE 30000/840 | 35010 | 28710 | 182,9 | 157 | 25,3 / 25,4 | 11,8 |

| Type | Autonomy [hrs] | Emergency light flux of light fitting [lm] | Power in standby mode [W] | Battery type | Net weight [kg] |
|--|----------------|--|---------------------------|---------------------|-----------------|
| EM kit for permanent emergency lighting with battery autotesting - diffuser: satinized tempered safety glass | | | | | |
| M1hAt | 1 | 440 | 1,5 | LiFePO ₄ | +4,2 |
| M3hAt | 3 | 440 | 1,5 | LiFePO ₄ | +4,4 |

CANOPUS HE

| Code | Type | M1hAt | M3hAt | DALI | DALI M1hAt | DALI M3hAt |
|-------|----------------------|-------|-------|-------|------------|------------|
| 74810 | CANOPUS HE 22000/840 | 74811 | 74812 | 74813 | 74814 | 74815 |
| 74820 | CANOPUS HE 26000/840 | 74821 | 74822 | 74823 | 74824 | 74825 |
| 74830 | CANOPUS HE 30000/840 | 74831 | 74832 | 74833 | 74834 | 74835 |

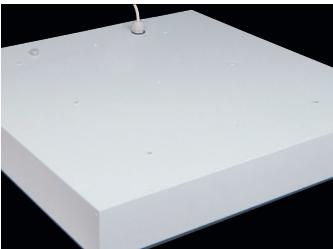
Example of type marking: 74834 = CANOPUS HE 30000/840 DALI M1hAt

LEGEND

- DALI** – version with digital dimmable driver DALI (2 - 3 pcs)
- M1hAt** – emergency back-up source with operating time of 1 hour (SA) for permanent illumination with battery autotesting
- M3hAt** – emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting
- Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT

- a) With help of suspension eyes of M6
- b) With help of a holder directly to the ceiling
- c) With the help of adjustable holder directly on the ceiling or on the wall
- d) With help of a chain hinge

**LIGHT FITTING DETAILED VIEW****LIGHT FITTING DETAILED VIEW WITH AN EMERGENCY MODULE**

Ceiling holder

Serves to suspend the light fitting from the ceiling.



| Code | Type | Description | Weight [kg] |
|-------|-----------------------|---|-------------|
| 50080 | CANOPUS holder 1 | Metal suspender for direct suspension from the ceiling. Screw M6 × 16 - 8 pcs for assembly. | 2,3 |
| 50086 | CANOPUS holder 1 INOX | Stainless-steel suspender for direct suspension from the ceiling. Screw M6 × 16 - 8 pcs for assembly. | 2,3 |

Adjustable holder

Serves to suspend the light fitting on the wall, ceiling and skew surface, allows adjusting the light fitting from 0-90°, by 15°.



| Code | Type | Description | Weight [kg] |
|-------|-----------------------|--|-------------|
| 50081 | CANOPUS holder 2 | Metal adjustable holder for the ceiling and for the wall. Adjustment by 15° in a range of 0-90°. Screw M6 × 16 - 8 pcs for assembly. | 3,0 |
| 50087 | CANOPUS holder 2 INOX | Stainless-steel adjustable holder for the ceiling and for the wall. Adjustment by 15° in a range of 0-90°. Screw M6 × 16 - 8 pcs for assembly. | 3,0 |

Chain suspender

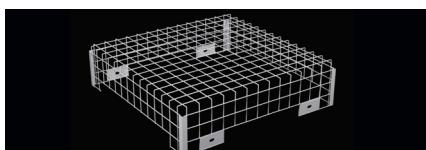
Serves to suspend the light fitting with the help of chains on a threaded rod or with the help of a lug on a hook.



| Code | Type | Description | Weight [kg] |
|-------|------------------------|---|-------------|
| 50082 | CANOPUS suspender | Chain suspender with height 40 cm. (Suspender holder - 1 pc, lugs M6 - 4 pcs, snap-hooks - 4 pcs, chains - 4 pcs). | 0,6 |
| 50088 | CANOPUS suspender INOX | INOX chain suspender with height 40 cm. (Suspender holder - 1 pc, lugs M6 - 4 pcs, snap-hooks - 4 pcs, chains - 4 pcs). | 0,6 |

Protective grille

The metal grille protects the light fitting against mechanical damage and tampering. It is fixed on the ceiling holder of the light fitting. Surface finish with RAL 9003 powder coating.

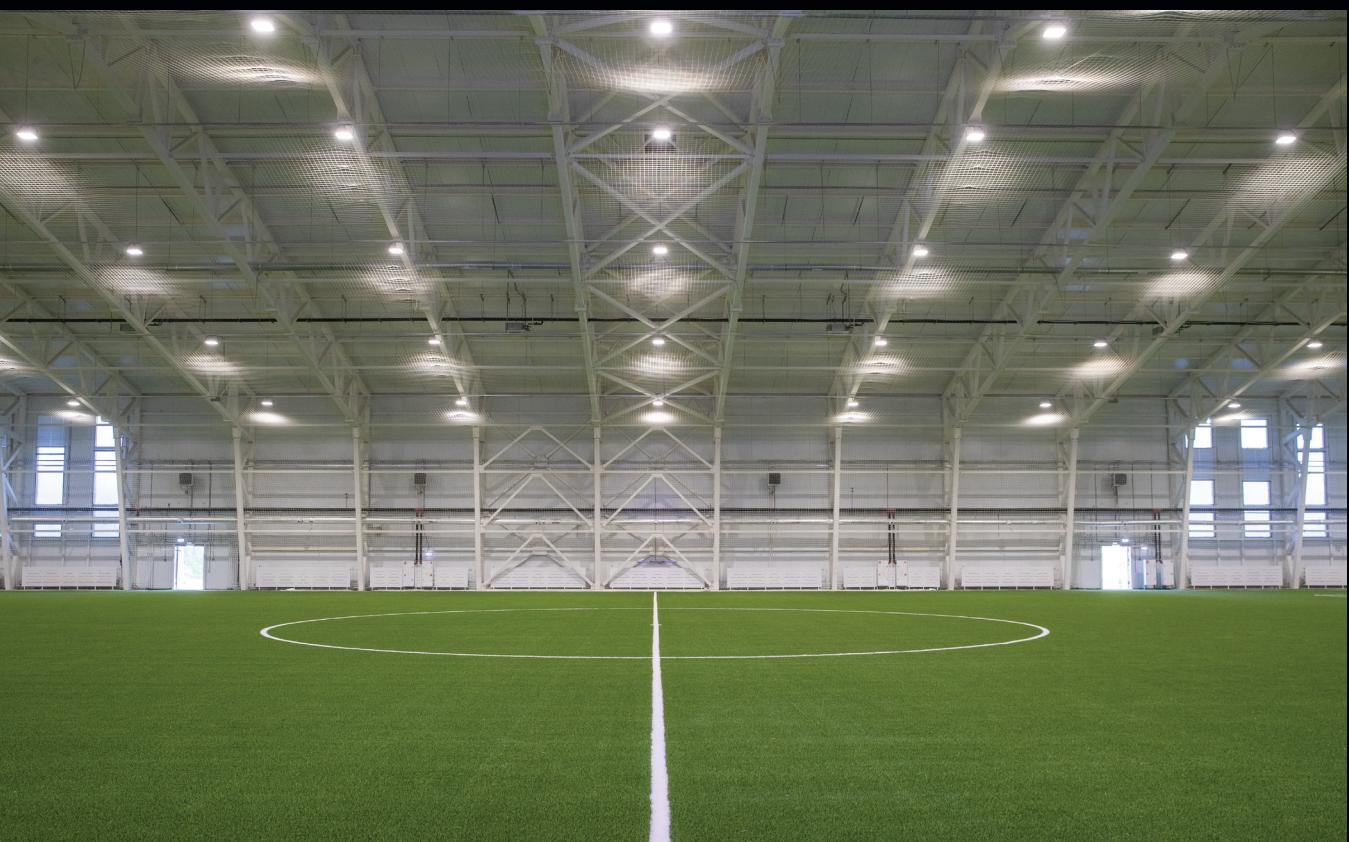


| Code | Type | Description | Weight [kg] |
|-------|--|---|-------------|
| 50083 | CANOPUS protective grille | Metal protective grille (for variants without an emergency module) with mesh size 50×50 mm. (Protective basket, 2 threaded rods M10, 4 closed nuts M10, 4 distance tubes IRS16, 4 washers M10). | 3,6 |
| 50085 | CANOPUS Mxh protec-Metal protective grille (for variants with an emergency module) | Metal protective grille (for variants with an emergency module) with mesh size 50×50 mm. (Protective basket, 2 threaded rods M10, 4 closed nuts M10, 4 distance tubes IRS16, 4 washers M10). | 4,4 |



BATTENTI DA
SQUADRARE

LANUS



INDUSTRIAL
ALUMINIUM
DUSTPROOF
WATERPROOF



CANOPUS – industrial metal LED light fitting

LANUS SQUARE
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IP66

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LANUS ROUND
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LANUS SQUARE

NEW



... aluminium, dustproof, waterproof square light fitting

USE

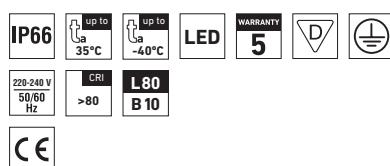
The light fixture is suitable for high halls, sports venues, advertising spaces and indoor and outdoor industrial spaces.

Characteristics of the used tempered glass and its shattering power are controlled by the ČSN EN 12150-1 standard. For applications where spontaneous fracture means a higher safety risk, we recommend to use the version with the safety film (SF).

ADVANTAGES

- Light fitting protection **IP66**
- Ambient temperature from **-40°C** to **35°C**
- Lifetime: 50 000 hours / L80B10
- Ventilation membrane
- Body: aluminium alloy, graphite black [RAL 9001]
- Optical cover: clear heat-strengthened safety glass

- Constant luminous flux even in ambient temperature of -40 °C
- Standard model CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Installation using a 0.4m 3-core 3x1mm² CYSY cable
- Insulation: class I



LANUS SQUARE



TECHNICAL DESCRIPTION

- Light fitting protection **IP66**
- Ambient temperature from **-40°C to 35 °C**
- Maximum system efficacy: **153 lm/W**
- Lifetime: 50 000 hours / L80B10
- Body: aluminium alloy, graphite black (RAL 9001)
- Reflector cover: clear heat-strengthened safety glass
- Standard model CRI > 80: 4000 K
- Connection: a 0.4m 3-core 3x1mm² CYSY cable
- Mounting: supplied with an eye bolt

- Electric equipment: LED modules, 1-10V dimmable driver controlled by 2-core 2x1mm² cable
- Beam angle: 60° or 90°
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Code | Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/ transverse | Net weight [kg] | A [mm] |
|--------|------------------------------|--|---|-----------------------------|------------------------------|------------------------------------|-----------------------|-----------|
| | | For ambient temperature t _a = 35 °C | 110 | C0 C90 | LANUS SQUARE A60 | LANUS SQUARE A90 | | |
| 106905 | LANUS SQUARE S 15000/840 A60 | 15510 | 14270 | 98,8 | 144 | 27,8 / 27,9 | 2,3 | 260 |
| 106907 | LANUS SQUARE S 15000/840 A90 | 15510 | 14270 | 98,8 | 144 | 29,9 / 30,0 | 2,3 | 260 |
| 106906 | LANUS SQUARE M 22000/840 A60 | 21970 | 20650 | 135,2 | 153 | 27,3 / 27,3 | 3,4 | 310 |
| 106908 | LANUS SQUARE M 22000/840 A90 | 21970 | 20650 | 135,2 | 153 | 29,4 / 29,4 | 3,4 | 310 |

LIGHT FITTING ATTACHMENT

- a) An eye bolt is supplied with the fitting
- b) Ceiling/wall brackets – not included
- c) Wall brackets – not included
- d) Rope attachment set – not included



LANUS ROUND

NEW



... aluminium, dustproof, waterproof round light fitting

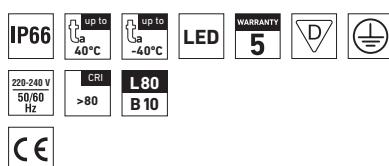
USE

The fitting is suitable for indoor industrial spaces, warehouses, sports halls and advertisement spaces.

ADVANTAGES

- Light fitting protection **IP66**
- Ambient temperature from **-40°C** to **40°C**
- Lifetime: 50 000 hours / L80B10
- High **mechanical resistance IK10**
- Body: aluminium alloy, graphite black [RAL 9001]
- Optical cover: clear PMMA with integrated optics

- Constant luminous flux even in ambient temperature of -40 °C
- Standard model CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Connection: a 0.4m 3-core 3x1mm² CYSY cable
- Insulation: class I



LANUS ROUND

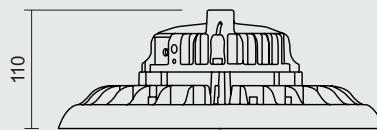
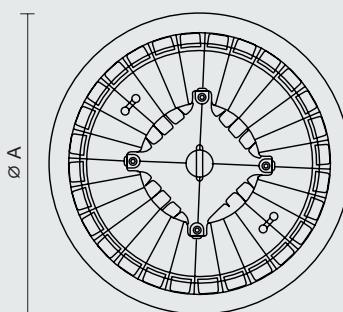


TECHNICAL DESCRIPTION

- Light fitting protection **IP66**
- Ambient temperature from **-40°C** to **40°C**
- Maximum system efficacy: **155 lm/W**
- Lifetime: 50 000 hours / L80B10
- Body: aluminium alloy, graphite black (RAL 9001)
- Reflector cover made of clear PMMA with integrated optics
- Standard model CRI > 80: 4000 K
- Connection: a 0.4m 3-core 3x1mm² CYSY cable
- Mounting: supplied with an eye bolt

- Electric equipment: LED modules, 1-10V dimmable driver controlled by 2-core 2x0,5mm² cable
- Beam angle: 60° or 90°
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %

| Code | Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/ transverse | Net weight [kg] | A [mm] |
|--------|-----------------------------|--|---|-----------------------------|------------------------------|------------------------------------|-----------------------|-----------|
| | | For ambient temperature $t_a = 40^\circ\text{C}$ | | | | | | |
| 106901 | LANUS ROUND S 15000/840 A60 | 15590 | 14340 | 94,8 | 151 | 26,5 / 26,5 | 2,1 | 300 |
| 106903 | LANUS ROUND S 15000/840 A90 | 15590 | 14650 | 94,8 | 155 | 28,3 / 28,3 | 2,1 | 300 |
| 106902 | LANUS ROUND M 25000/840 A60 | 24480 | 22520 | 148,5 | 152 | 27,0 / 27,0 | 2,6 | 345 |
| 106904 | LANUS ROUND M 25000/840 A90 | 24480 | 23010 | 148,5 | 155 | 28,8 / 28,8 | 2,6 | 345 |



LIGHT FITTING ATTACHMENT

An eye bolt is supplied with the fitting.



LIGHT FITTING DETAILED VIEW

LANUS ROUND



Ceiling/wall mounting bracket

To attach the light fixture to the ceiling or a wall.



| Code | Type | Description | Weight [kg] |
|--------|--------------------------|--|-------------|
| 106909 | LANUS SQUARE S bracket 1 | Ceiling/wall mounting bracket for LANUS SQUARE S fixture | 0,43 |
| 106910 | LANUS SQUARE M bracket 1 | Ceiling/wall mounting bracket for LANUS SQUARE M fixture | 0,54 |

Wall mounting bracket

To attach the light fixture to a wall.



| Code | Type | Description | Weight [kg] |
|--------|--------------------------|--|-------------|
| 106911 | LANUS SQUARE S bracket 2 | Wall mounting bracket for LANUS SQUARE S fixture | 0,42 |
| 106912 | LANUS SQUARE M bracket 2 | Wall mounting bracket for LANUS SQUARE M fixture | 0,54 |

Rope attachment set

To attach the fixture to a rope.



| Code | Type | Description | Weight [kg] |
|--------|------------------------------------|--|-------------|
| 106913 | LANUS SQUARE S rope attachment set | Rope attachment set for LANUS SQUARE S fixture | 0,80 |
| 106914 | LANUS SQUARE M rope attachment set | Rope attachment set for LANUS SQUARE M fixture | 0,92 |



LINEA



INDOOR
PLASTIC
SURFACE-MOUNTED



LINEA – indoor plastic LED light fitting

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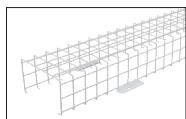
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LINEA



... indoor, surface-mounted, plastic.

USE

LINEA family is a perfect lighting solution of modern and technically functional illumination. It offers ceiling and wall-mounted luminaires with balanced shadowing and uniform light. Thanks to various sizes, individual premises as well as public buildings can be attractively illuminated.

The Linea light fitting line can be used as a comprehensive solution for lighting of office buildings, schools, hospitals, libraries, as well as individual lighting of flat interiors, corridors, sanitary and welfare facilities.

Thanks to its high luminous efficiency and low electricity consumption it is a suitable replacement for light fittings with fluorescent tubes.

T A

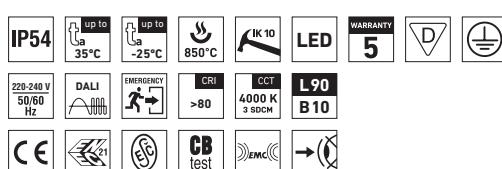
Č R

Technology
Agency
of the Czech Republic

ADVANTAGES

- Light fitting protection **IP54**
- Maximum ambient temperature up to **t_a = 35°C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high light transmission
- Body: white polycarbonate (PC) = high mechanical resistance
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)

- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Certification: ESČ, ENEC, CB



LINEA

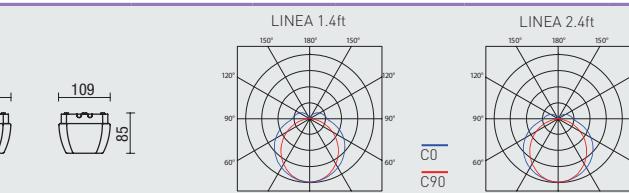


TECHNICAL DESCRIPTION

- Light fitting protection: IP54
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h with autotest)
- Maximum system efficacy: 143 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: white polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Rotary cap: polyamide + 10 % glass fibre
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: rubber (SBS)
- Terminal block: screwless, three-pole (basic version)
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 35^\circ\text{C}$ - body: white polycarbonate - diffuser: translucent polycarbonate | | | | | | | | |
| LINEA 1.4ft 2600/840 | 2600 | 2180 | 16,1 | 135 | 20.1 / 18.4 | 1,9 | 1160 | 650 |
| LINEA 1.4ft 3200/840 | 3100 | 2600 | 19,1 | 136 | 20.7 / 19.1 | 1,9 | 1160 | 650 |
| LINEA 1.4ft 4400/840 | 4300 | 3610 | 26,0 | 139 | 21.8 / 20.2 | 1,9 | 1160 | 650 |
| LINEA 2.4ft 5200/840 | 5230 | 4290 | 30,3 | 142 | 21.9 / 20.2 | 2,5 | 1160 | 650 |
| LINEA 2.4ft 6400/840 | 6240 | 5120 | 36,3 | 141 | 22.5 / 20.8 | 2,5 | 1160 | 650 |
| LINEA 2.4ft 8800/840 | 8690 | 7130 | 49,7 | 143 | 23.7 / 21.9 | 2,5 | 1160 | 650 |
| LINEA 2.4ft SNS 5200/840 | 4710 | 3860 | 27,3 | 141 | 21.5 / 19.8 | 2,5 | 1160 | 650 |
| LINEA 2.4ft SNS 6400/840 | 5620 | 4610 | 32,7 | 141 | 22.1 / 20.4 | 2,5 | 1160 | 650 |
| LINEA 2.4ft SNS 8800/840 | 7760 | 6360 | 44,4 | 143 | 23.3 / 21.5 | 2,5 | 1160 | 650 |

63150 LINEA 1.4ft 3200/840 = suitable replacement for T8 fl. tube light fitting SM 136 – 1×36W
63160 LINEA 1.4ft 4400/840 = suitable replacement for T8 fl. tube light fitting SM 158 – 1×58W



LINEA

Diffuser made of translucent polycarbonate

| Code | Type | M1h | M3h | DALI | DALI M1h | DALI M3h | SNS | CORRIDOR |
|-------|----------------------|-------|-------|-------|----------|----------|-------|----------|
| 63140 | LINEA 1.4ft 2600/840 | 63144 | x | 63143 | 63147 | x | x | x |
| 63150 | LINEA 1.4ft 3200/840 | 63154 | x | 63153 | 63157 | x | x | x |
| 63160 | LINEA 1.4ft 4400/840 | 63164 | x | 63163 | 63167 | x | x | x |
| 63240 | LINEA 2.4ft 5200/840 | 63244 | 63245 | 63243 | 63247 | 63246 | 63241 | 63248 |
| 63250 | LINEA 2.4ft 6400/840 | 63254 | 63255 | 63253 | 63257 | 63256 | 63251 | 63258 |
| 63260 | LINEA 2.4ft 8800/840 | 63264 | 63265 | 63263 | 63267 | 63266 | 63261 | 63268 |

LEGEND

- DALI** – version with digital dimmable driver DALI
SNS – microwave motion sensor
CORRIDOR – version with digital dimmable driver DALI and set corridor function
- M1h** – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination with autotest
M3h – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination with autotest
 Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT AND ITS DETAILED VIEW

Directly to a ceiling or a wall with the use of screws



LINEA



LINEA SQUARE



BIM
ready

... interior square, plastic, surface-mounting.

USE

LINEA family is a perfect lighting solution of modern and technically functional illumination. It offers ceiling and wall-mounted luminaires with balanced shadowing and uniform light. Thanks to various sizes, individual premises as well as public buildings can be attractively illuminated.

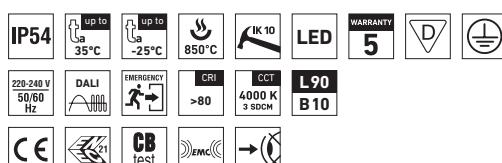
The Linea light fitting line can be used as a comprehensive solution for lighting of office buildings, schools, hospitals, libraries, as well as individual lighting of flat interiors, corridors, sanitary and welfare facilities.

Thanks to its high luminous efficiency and low electricity consumption it is a suitable replacement for light fittings with fluorescent tubes.

ADVANTAGES

- Light fitting protection **IP54**
- Maximum ambient temperature up to **t_a = 35°C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high light transmission
- Body: white polycarbonate (PC) = high mechanical resistance
- Up to 50 % lower electricity consumption when compared to compact fluorescent tubes
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)

- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Certification: ENEC, CB



LINEA SQUARE



TECHNICAL DESCRIPTION

- Light fitting protection: IP54
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h with autotest)
- Maximum system efficacy: 139 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant

- Body: white polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Rotary cap: polyamide + 10 % glass fibre
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: rubber (SBS)
- Terminal block: screwless, three-pole (basic version)
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|
| For ambient temperature max. $t_a = 35^\circ\text{C}$ - body: white polycarbonate - diffuser: translucent polycarbonate | | | | | | | |
| LINEA SQUARE 1550/840 | 35 | 1560 | 1250 | 9,0 | 139 | 18,8 / 18,8 | 1,4 |
| LINEA SQUARE 1900/840 | 35 | 1930 | 1540 | 11,4 | 135 | 19,5 / 19,5 | 1,4 |
| LINEA SQUARE 2200/840 | 35 | 2270 | 1820 | 13,7 | 133 | 20,1 / 20,1 | 1,4 |
| LINEA SQUARE 2500/840 | 35 | 2540 | 2030 | 15,7 | 129 | 20,5 / 20,5 | 1,4 |
| LINEA SQUARE 3600/840 | 30 | 3560 | 2850 | 23,1 | 123 | 21,6 / 21,6 | 1,5 |

63560 LINEA SQUARE 3600/840 = suitable replacement for compact fluorescent lamps 2×26W

LINEA SQUARE

Diffuser made of translucent polycarbonate

| Code | Type | M1h | M3h | DALI | DALI M1h | DALI M3h | SNS | SNS M1h | SNS M3h | CORRIDOR | CORRIDOR M1h | CORRIDOR M3h |
|-------|-----------------------|-------|-------|-------|----------|----------|-------|---------|---------|----------|--------------|--------------|
| 63348 | LINEA SQUARE 1550/840 | 63356 | 63360 | x | x | x | 63352 | 63365 | 63369 | x | x | x |
| 63349 | LINEA SQUARE 1900/840 | 63357 | 63361 | 63374 | 63381 | 63384 | 63353 | 63366 | 63370 | 63377 | 63388 | 63392 |
| 63350 | LINEA SQUARE 2200/840 | 63358 | 63362 | 63375 | 63382 | 63385 | 63354 | 63367 | 63371 | 63378 | 63389 | 63393 |
| 63351 | LINEA SQUARE 2500/840 | 63359 | 63363 | 63376 | 63383 | 63386 | 63355 | 63368 | 63372 | 63379 | 63390 | 63394 |
| 63560 | LINEA SQUARE 3600/840 | 63564 | 63364 | 63563 | 63567 | 63387 | 63561 | 63566 | 63373 | 63380 | 63391 | 63395 |

Example of type marking: 63376 = LINEA SQUARE 2500/840 DALI

LEGEND

- | | |
|-----------------|--|
| DALI | - version with digital dimmable driver DALI |
| SNS | - microwave motion sensor |
| CORRIDOR | - version with digital dimmable driver DALI and set corridor function |
| M1h | - emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination with autotest |
| M3h | - emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination with autotest Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation. |

LIGHT FITTING ATTACHMENT AND ITS DETAILED VIEW

Directly to a ceiling or a wall with the use of screws



LINEA SQUARE



LINEA ROUND



BIM
ready

... interior circular, plastic, surface-mounting.

USE

LINEA family is a perfect lighting solution of modern and technically functional illumination. It offers ceiling and wall-mounted luminaires with balanced shadowing and uniform light. Thanks to various sizes, individual premises as well as public buildings can be attractively illuminated.

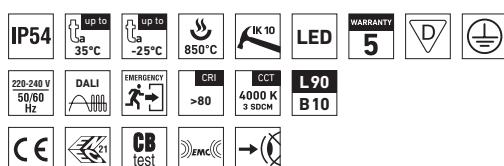
The Linea light fitting line can be used as a comprehensive solution for lighting of office buildings, schools, hospitals, libraries, as well as individual lighting of flat interiors, corridors, sanitary and welfare facilities.

Thanks to its high luminous efficiency and low electricity consumption it is a suitable replacement for light fittings with fluorescent tubes.

ADVANTAGES

- Light fitting protection **IP54**
- Maximum ambient temperature up to **t_a = 35°C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high light transmission
- Body: white polycarbonate (PC) = high mechanical resistance
- Up to 50 % lower electricity consumption when compared to compact fluorescent tubes
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)

- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Certification: ENEC, CB



LINEA ROUND



TECHNICAL DESCRIPTION

- Light fitting protection: IP54
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$
Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$
(version with emergency back-up source for 1 or 3 hours; M1h, M3h with autotest)
- Maximum system efficacy: 137 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: white polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Rotary cap: polyamide + 10 % glass fibre
- Sealing: polyurethane (PUR), foamed body groove
- Cable glands: rubber (SBS)
- Terminal block: screwless, three-pole (basic version)
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|
| For ambient temperature max. $t_a = 35^\circ\text{C}$ - body: white polycarbonate - diffuser: translucent polycarbonate | | | | | | | |
| LINEA ROUND 1550/840 | 35 | 1560 | 1230 | 9,0 | 137 | 20.1 / 20.1 | 1 |
| LINEA ROUND 1900/840 | 35 | 1930 | 1520 | 11,4 | 133 | 20.8 / 20.8 | 1 |
| LINEA ROUND 2200/840 | 35 | 2270 | 1790 | 13,7 | 131 | 21.4 / 21.4 | 1 |
| LINEA ROUND 2500/840 | 35 | 2540 | 2010 | 15,7 | 128 | 21.8 / 21.8 | 1 |
| LINEA ROUND 3600/840 | 30 | 3560 | 2810 | 23,1 | 122 | 23.0 / 23.0 | 1,1 |

63640 LINEA ROUND 3600/840 = suitable replacement for compact fluorescent lamps 2x26 W

LINEA ROUND

Diffuser made of translucent polycarbonate

| Code | Type | M1h | M3h | DALI | DALI M1h | DALI M3h | SNS | SNS M1h | SNS M3h | CORRIDOR | CORRIDOR M1h | CORRIDOR M3h |
|-------|----------------------|-------|-------|-------|----------|----------|-------|---------|---------|----------|--------------|--------------|
| 63301 | LINEA ROUND 1550/840 | 63309 | 63313 | x | x | x | 63305 | 63317 | 63321 | x | x | x |
| 63302 | LINEA ROUND 1900/840 | 63310 | 63314 | 63326 | 63333 | 63336 | 63306 | 63318 | 63322 | 63329 | 63340 | 63344 |
| 63303 | LINEA ROUND 2200/840 | 63311 | 63315 | 63327 | 63334 | 63337 | 63307 | 63319 | 63323 | 63330 | 63341 | 63345 |
| 63304 | LINEA ROUND 2500/840 | 63312 | 63316 | 63328 | 63335 | 63338 | 63308 | 63320 | 63324 | 63331 | 63342 | 63346 |
| 63640 | LINEA ROUND 3600/840 | 63664 | 63665 | 63663 | 63667 | 63339 | 63641 | 63646 | 63325 | 63332 | 63343 | 63347 |

Example of type marking: 63333 = LINEA ROUND 1900/840 DALI M1h

LEGEND

- | | |
|-----------------|--|
| DALI | - version with digital dimmable driver DALI |
| SNS | - microwave motion sensor |
| CORRIDOR | - version with digital dimmable driver DALI and set corridor function |
| M1h | - emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination with autotest |
| M3h | - emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination with autotest |
- Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT AND ITS DETAILED VIEW

Directly to a ceiling or a wall with the use of screws

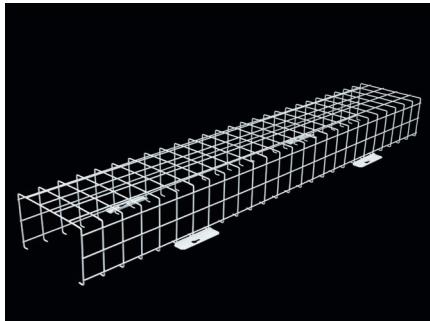


LINEA ROUND



OM – protective grid

The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws. The surface is treated with the RAL 9003 powder-coated colour.



| Code | Type | Description | Weight [kg] |
|-------|--------|---|----------------|
| 11942 | OM 236 | protective grid for types 236, 228/254, 2,4ft (1300×220×130 mm) | 1,7 |



LUXOR LED



INDOOR
METAL
CEILING-MOUNTED
RASTER



LUXOR LED – indoor metal LED light fitting

LUXOR LED
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IP20

LUXOR LED
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LUXOR LED
ACCESSORIES
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LUXOR LED
ACCESSORIES
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LUXOR LED



... indoor metal.

USE

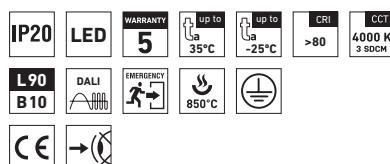
LUXOR LED is the perfect solution for office, education, halls, hospitals and shop & retail. Various sizes and three mounting methods are available.

It is the luminaire with highly specular parabolic louvre of glare-free effects, **UGR <19**.

LUXOR LED creates an atmosphere of well-being and can be used for daycare facilities too. LUXOR LED complies the European Lighting Standard EN 12461-1 and can also be used for day nurseries.

ADVANTAGES

- Light fitting protection **IP20**
- Maximum ambient temperature up to **t_a = 35 °C**
- Lifetime: 50 000 hours / L90B10
- Optical system: shiny parabolic louvre, UGR < 19
- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Standard model - CRI → 80: 4000 K
- At request CRI → 80: 3000 K, 5000 K, 6500 K, CRI → 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version



LUXOR LED



TECHNICAL DESCRIPTION

- Light fitting protection: IP20
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ version with emergency back-up source Mxh with autotest
- Maximum system efficacy: 112 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50 000 hours / L90B10
- Diffuser: shiny parabolical grid, UGR 19

- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour
- Cable gland: rubber (SBS), white
- Terminal block: screwless, three-pole
- Cover secured by: magnets and plastic rivets
- Electric equipment: LED modules, current driver or current driver DAL

| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 35^\circ\text{C}$ - body: steel sheet, white colour - diffuser shiny parabolical grid | | | | | | | | |
| LUXOR LED 1.2ft 1600/840 | 1560 | 1000 | 9,8 | 102 | 12.6 / 15.5 | 2,7 | 664 | 450 |
| LUXOR LED 1.4ft 3200/840 | 3100 | 1980 | 19,1 | 104 | 12.6 / 15.6 | 4,4 | 1224 | 1030 |
| LUXOR LED 1.5ft 4000/840 | 3850 | 2460 | 23,3 | 106 | 12.6 / 15.6 | 5,2 | 1504 | 1310 |
| LUXOR LED 2.2ft 3200/840 | 3100 | 1980 | 19,1 | 104 | 12.7 / 15.7 | 3,3 | 664 | 450 |
| LUXOR LED 2.4ft 6400/840 | 6240 | 3990 | 36,3 | 110 | 12.8 / 15.8 | 5,5 | 1224 | 1030 |
| LUXOR LED 2.5ft 8000/840 | 7770 | 4970 | 44,4 | 112 | 12.8 / 15.8 | 6,8 | 1504 | 1310 |
| LUXOR LED SQUARE 6400/840 | 6240 | 3990 | 36,3 | 110 | 13.6 / 15.2 | 6,0 | 595 | 500 |

LUXOR LED

body lacquered steel sheet - white colour

| Code | Type | M1h | M3h | DALI | DALI M1h | DALI M3h |
|--------|---------------------------|--------|--------|--------|----------|----------|
| 102249 | LUXOR LED 1.2ft 1600/840 | 102281 | 102288 | 102295 | 102302 | 102309 |
| 102250 | LUXOR LED 1.4ft 3200/840 | 102282 | 102289 | 102296 | 102303 | 102310 |
| 102251 | LUXOR LED 1.5ft 4000/840 | 102283 | 102290 | 102297 | 102304 | 102311 |
| 102252 | LUXOR LED 2.2ft 3200/840 | 102284 | 102291 | 102298 | 102305 | 102312 |
| 102253 | LUXOR LED 2.4ft 6400/840 | 102285 | 102292 | 102299 | 102306 | 102313 |
| 102254 | LUXOR LED 2.5ft 8000/840 | 102286 | 102293 | 102300 | 102307 | 102314 |
| 102255 | LUXOR LED SQUARE 6400/840 | 102287 | 102294 | 102301 | 102308 | 102315 |

Example of type marking: 102306 = LUXOR LED 2.4ft 6400/840 DALI M1h

LUXOR LED s

| Code | Type | body lacquered steel sheet - silver colour (s) | | | | |
|--------|---------------------------|--|--------|--------|----------|----------|
| | | M1h | M3h | DALI | DALI M1h | DALI M3h |
| 102316 | LUXOR LED 1.2ft 1600/840 | 102323 | 102330 | 102337 | 102344 | 102351 |
| 102317 | LUXOR LED 1.4ft 3200/840 | 102324 | 102331 | 102338 | 102345 | 102352 |
| 102318 | LUXOR LED 1.5ft 4000/840 | 102325 | 102332 | 102339 | 102346 | 102353 |
| 102319 | LUXOR LED 2.2ft 3200/840 | 102326 | 102333 | 102340 | 102347 | 102354 |
| 102320 | LUXOR LED 2.4ft 6400/840 | 102327 | 102334 | 102341 | 102348 | 102355 |
| 102321 | LUXOR LED 2.5ft 8000/840 | 102328 | 102335 | 102342 | 102349 | 102356 |
| 102322 | LUXOR LED SQUARE 6400/840 | 102329 | 102336 | 102343 | 102350 | 102357 |

Example of type marking: 102326 = LUXOR LED 2.2ft 4400/840 M1h s

LEGEND

s – silver colour RAL 9006

DALI – version with electronic and digitally dimmed ballast module operated via DALI protocol

M1h – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination with autotest

M3h – emergency back-up source with operating time of 3 hour (SA) for both permanent and emergency illumination with autotest

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws
- b) By suspending to a ceiling with the use of wire-cord suspensions
- c) Installation into lower ceiling



LIGHT FITTING DETAILED VIEW

LUXOR LED



Ceiling suspender kit for LUXOR luminaires

| Code | Type | Description | Weight [kg] |
|--------|-----------|---|-------------|
| 101344 | ZL 1 - S3 | a wire suspension kit with a maximum length of 1.5m to hang single-line light fixtures (1.2ft, 1.4ft, 1.5ft) including a 3-core supply cable (a steel Y wire with a keyhole hanging bracket and a span of 150 mm including a ceiling wire holder clip – 2 pcs, supply cable, ceiling rose, three-pole terminal block) | 0,2 |
| 101458 | ZL 1 - S5 | a wire suspension kit with a maximum length of 1.5m to hang single-line light fixtures (1.2ft, 1.4ft, 1.5ft) including a 5-core supply cable (a steel Y wire with a keyhole hanging bracket and a span of 150 mm including a ceiling wire holder clip – 2 pcs, supply cable, ceiling rose, three-pole terminal block) | 0,2 |

| Code | Type | Description | Weight [kg] |
|--------|-----------|---|-------------|
| 101456 | ZL 2 - S3 | a wire suspension kit with a maximum length of 1.5m to hang double-line light fixtures (2.2ft, 2.4ft, 2.5ft) including a 3-core supply cable (a steel Y wire with a keyhole hanging bracket and a span of 300 mm including a ceiling wire holder clip – 2 pcs, supply cable, ceiling rose, three-pole terminal block) | 0,2 |
| 101494 | ZL 2 - S5 | a wire suspension kit with a maximum length of 1.5m to hang double-line light fixtures (2.2ft, 2.4ft, 2.5ft) including a 5-core supply cable (a steel Y wire with a keyhole hanging bracket and a span of 300 mm including a ceiling wire holder clip – 2 pcs, supply cable, ceiling rose, three-pole terminal block) | 0,2 |

Ceiling suspender kit for LUXOR SQUARE luminaires

| Code | Type | Description | Weight [kg] |
|--------|-----------|---|-------------|
| 101457 | ZL 3 - S3 | a wire suspension kit with a maximum length of 1.5 m to hang square light fixtures including a 3-core supply cable (a steel wire with a keyhole hanging bracket and a ceiling hook – 4 pcs, M5 bolt with a fan disc washer – 4pcs, supply cable, ceiling rose, three-pole terminal block) | 0,2 |
| 101495 | ZL 3 - S5 | a wire suspension kit with a maximum length of 1.5 m to hang square light fixtures including a 5-core supply cable (a steel wire with a keyhole hanging bracket and a ceiling hook – 4 pcs, M5 bolt with a fan disc washer – 4pcs, supply cable, ceiling rose, five-pole terminal block) | 0,2 |

SB LED



INTERIOR
ALUMINUM
WALL/CEILING-MOUNTED



SB LED – interior aluminium LED fixture

SB LED
page 292



IP20

SB LED
page 292

SB LED



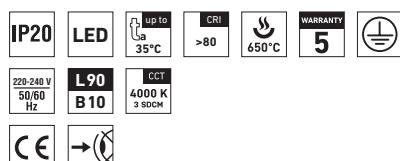
... indoor.

USE

The luminaire is an excellent choice for sanitary rooms, toilets, kitchen units, wall units, dressing rooms, worktops and shop windows.

ADVANTAGES

- Light fitting protection IP20
- Maximum ambient temperature up to $t_a = 35^\circ\text{C}$
- Integrated switch in side plastic cover
- Packaging: white cover, scratch protection
- Sliding mounting spacers



SB LED



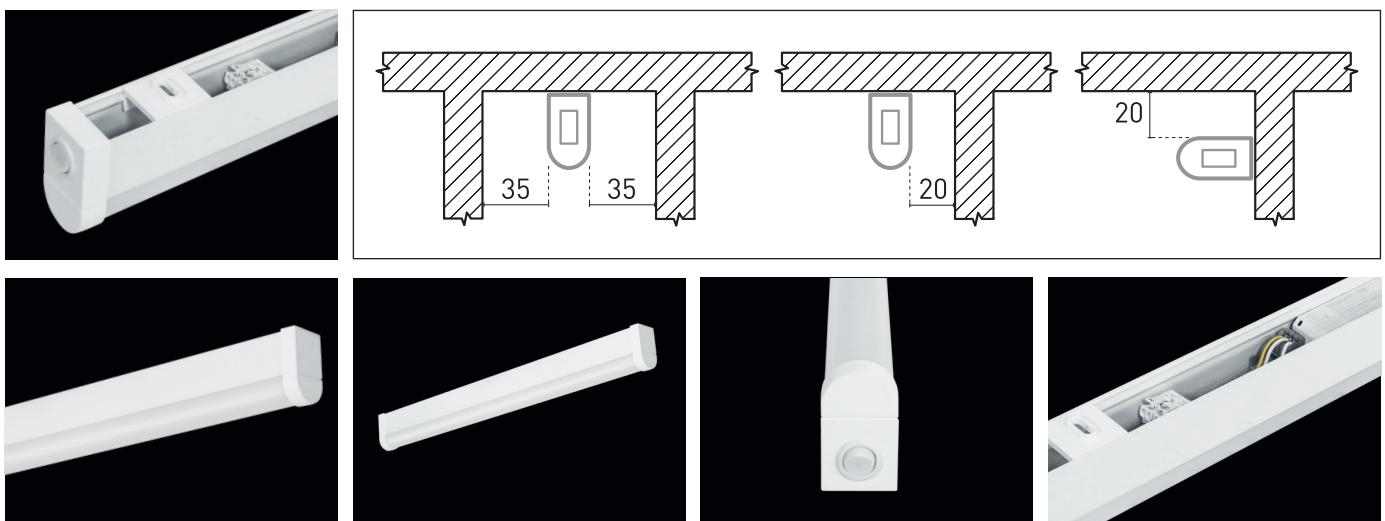
TECHNICAL DESCRIPTION

- Light fitting protection: IP20
- Maximum ambient temperature up to $t_a = 35^\circ\text{C}$
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: aluminium profile, white (RAL 9003)
- Terminal block: screwed, three-poles
- Side cover: white, plastic (ABS)
- Integrated switch in side plastic cover
- Electric equipment: LED modules, current driver
- Maximum system efficacy: 146 lm/W
- Lifetime: 50 000 hours / L90B10
- MacAdam = 3 SDCM
- The watt and lumen values can, in accordance with valid standards, vary by $\pm 7,5\%$
- CRI $\rightarrow 80$: 3000, 4000 K
- Sliding spacers (PA-GF)

| Type | Max. ambient temperature [°C] | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-------------------------------|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 35^\circ\text{C}$ - body: aluminum profile of white color - diffuser translucent polycarbonate | | | | | | | | | |
| SB LED 1.1ft 1100/840 | 35 | 1180 | 1070 | 9,0 | 119 | 27,1 / 25,0 | 0,4 | 360 | 230 |
| SB LED 1.2ft 2200/840 | 35 | 2340 | 2130 | 15,2 | 140 | 27,7 / 25,5 | 0,6 | 590 | 460 |
| SB LED 1.4ft 4400/840 | 35 | 4670 | 4250 | 29,8 | 143 | 27,7 / 25,5 | 1 | 1150 | 1020 |
| SB LED 1.5ft 5500/840 | 35 | 5890 | 5360 | 36,7 | 146 | 27,7 / 25,6 | 1,2 | 1430 | 1300 |

LIGHT FITTING ATTACHMENT

Directly to a ceiling or a wall with the use of screws



LYRA



INDOOR
PLASTIC
SURFACE-MOUNTED



LYRA – indoor plastic LED light fitting

LYRA
page 296



IP54

LYRA
page 296

LYRA



... fashionable for every interior.

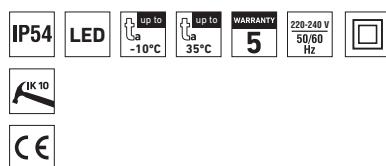
USE

LYRA is round LED wall and ceiling – mounted fashionable luminaire for every interior.

It is perfect solution for residential zones, corridors, lounges, hotels, restaurants and entrance areas.

ADVANTAGES

- Light fitting protection IP54
- Temperature resistance from ta -10 to 35 °C
- Lifetime: 50 000 hours / L80B50
- High mechanical resistance: IK10



LYRA



TECHNICAL DESCRIPTION

- Light fitting protection: IP54
- Maximum ambient temperature: 35 °C
- Lifetime: 50 000 hours / L80B50
- Maximum light fitting efficiency: 113 lm/W
- CRI > 80: 4000 K
- CRI > 80: 3000 K
- Diffuser: translucent polycarbonate
- Body: polycarbonate
- Light source body: polycarbonate
- Electronic equipment: LED modules, fixed output driver

- The values stated for power consumption and luminous flux are in a tolerance of + - 7,5%

| Code | Type | Max. ambient temperature [°C] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|---------------|-------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| | | | | | | | | C0 | C90 |
| For ambient temperature max. $t_a = 35^{\circ}\text{C}$ - body: polycarbonate - diffuser: translucent polycarbonate | | | | | | | | | |
| 41001 | LYRA 1500/840 | 35 | 1670 | 14,8 | 113 | 27,9 / 27,8 | 0,6 | 200 | 43 |
| 41002 | LYRA 1500/830 | 35 | 1540 | 14,8 | 104 | 27,6 / 27,5 | 0,6 | 200 | 43 |

LIGHT FITTING ATTACHMENT AND ITS DETAILED VIEW

Directly to a ceiling or a wall with the use of screws



BELTR LED



INDOOR
PLASTIC
SURFACE-MOUNTED
BATTEN



BELTR LED – indoor plastic LED light fitting

BELTR LED
page 300



IP44

BELTR LED
page 300

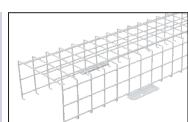
BELTR LED TUBE
page 303



IP40

BELTR LED TUBE
page 303

BELTR LED
ACCESSORIES
page 306



BELTR LED
ACCESSORIES
page 306

BELTR LED



... indoor, plastic, surface-mounted, batten.

USE

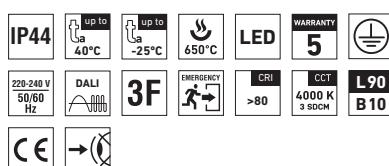
The light fitting is suitable for offices, hallways, school interiors, libraries, lecture rooms, sanitary rooms, hospitals and passenger terminals.

Thanks to its high luminous efficiency and low electricity consumption it is a suitable replacement for light fittings with fluorescent tubes.

ADVANTAGES

- Light fitting protection **IP44**
- Maximum ambient temperature up to **t_a = 40°C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: steel sheet, white colour (RAL 9003)
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)

- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Possibility to through-wire individual light fittings to row with the use of external terminal blocks
- Certification: CE



BELTR LED



TECHNICAL DESCRIPTION

- Light fitting protection: IP44
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 hour; M1h)
- Maximum system efficacy: 142 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant

- Body: steel sheet, white colour (RAL 9003)
- Side covers: white (ABS), UV stable, with offsets allowing fixing the light fitting with enclosed screws M4 against tampering
- Cable gland: white, rubber
- Terminal block: screwless, three-pole (basic version)
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 40^\circ\text{C}$ - body: steel sheet, white colour - diffuser: translucent polycarbonate | | | | | | | | |
| BELTR LED 1.2ft 1300/840 | 1310 | 1060 | 8,2 | 129 | 21.0 / 18.5 | 0,8 | 610 | 500 |
| BELTR LED 1.2ft 1600/840 | 1560 | 1260 | 9,8 | 129 | 21.7 / 18.9 | 0,8 | 610 | 500 |
| BELTR LED 1.4ft 2600/840 | 2600 | 2110 | 16,1 | 131 | 21.1 / 18.8 | 1,5 | 1170 | 1000 |
| BELTR LED 1.4ft 3200/840 | 3100 | 2510 | 19,1 | 131 | 21.7 / 19.2 | 1,4 | 1170 | 1000 |
| BELTR LED 1.5ft 3250/840 | 3240 | 2620 | 19,5 | 134 | 21.1 / 18.8 | 1,9 | 1450 | 1000 |
| BELTR LED 1.5ft 4000/840 | 3850 | 3120 | 23,3 | 134 | 21.7 / 19.3 | 1,8 | 1450 | 1000 |
| BELTR LED 2.2ft 2600/840 | 2600 | 2110 | 16,1 | 131 | 22.2 / 21.1 | 1,5 | 610 | 500 |
| BELTR LED 2.2ft 3200/840 | 3100 | 2510 | 19,1 | 131 | 22.8 / 21.7 | 1,3 | 610 | 500 |
| BELTR LED 2.4ft 5200/840 | 5230 | 4240 | 30,3 | 140 | 22.3 / 21.3 | 2,4 | 1170 | 1000 |
| BELTR LED 2.4ft 6400/840 | 6240 | 5050 | 36,3 | 139 | 22.9 / 21.9 | 2,3 | 1170 | 1000 |
| BELTR LED 2.5ft 6500/840 | 6500 | 5270 | 37,1 | 142 | 22.3 / 21.4 | 3,1 | 1450 | 1000 |
| BELTR LED 2.5ft 8000/840 | 7770 | 6290 | 44,4 | 142 | 22.9 / 22.0 | 2,9 | 1450 | 1000 |

106917 BELTR LED 1.2ft 1600/840 = suitable replacement for T8 fl. tube light fitting BELTR 118 - 1x18W

106919 BELTR LED 1.4ft 3200/840 = suitable replacement for T8 fl. tube light fitting BELTR 136 - 1x36W

106921 BELTR LED 1.5ft 4000/840 = suitable replacement for T8 fl. tube light fitting BELTR 158 - 1x58W

106923 BELTR LED 2.2ft 3200/840 = suitable replacement for T8 fl. tube light fitting BELTR 218 - 2x18W

106925 BELTR LED 2.4ft 6400/840 = suitable replacement for T8 fl. tube light fitting BELTR 236 - 2x36W

106927 BELTR LED 2.5ft 8000/840 = suitable replacement for T8 fl. tube light fitting BELTR 258 - 2x58W

BELTR LED

| Kód | Typ |
|--------|--------------------------|
| 106916 | BELTR LED 1.2ft 1300/840 |
| 106917 | BELTR LED 1.2ft 1600/840 |
| 106918 | BELTR LED 1.4ft 2600/840 |
| 106919 | BELTR LED 1.4ft 3200/840 |
| 106920 | BELTR LED 1.5ft 3250/840 |
| 106921 | BELTR LED 1.5ft 4000/840 |
| 106922 | BELTR LED 2.2ft 2600/840 |
| 106923 | BELTR LED 2.2ft 3200/840 |
| 106924 | BELTR LED 2.4ft 5200/840 |
| 106925 | BELTR LED 2.4ft 6400/840 |
| 106926 | BELTR LED 2.5ft 6500/840 |
| 106927 | BELTR LED 2.5ft 8000/840 |

| 3F | M1h | 3F M1h |
|--------|--------|--------|
| x | x | x |
| x | x | x |
| x | 106934 | x |
| x | 106935 | x |
| x | 106936 | x |
| x | 106937 | x |
| 106928 | x | x |
| 106929 | x | x |
| 106930 | 106938 | 106942 |
| 106931 | 106939 | 106943 |
| 106932 | 106940 | 106944 |
| 106933 | 106941 | 106945 |

Example of type marking: 106943 = BELTR LED 2.4ft 6400/840 3F M1h

BELTR LED DALI

| Code | Type |
|--------|-------------------------------|
| 106946 | BELTR LED 1.2ft 1300/840 DALI |
| 106947 | BELTR LED 1.2ft 1600/840 DALI |
| 106948 | BELTR LED 1.4ft 2600/840 DALI |
| 106949 | BELTR LED 1.4ft 3200/840 DALI |
| 106950 | BELTR LED 1.5ft 3250/840 DALI |
| 106951 | BELTR LED 1.5ft 4000/840 DALI |
| 106952 | BELTR LED 2.2ft 2600/840 DALI |
| 106953 | BELTR LED 2.2ft 3200/840 DALI |
| 106954 | BELTR LED 2.4ft 5200/840 DALI |
| 106955 | BELTR LED 2.4ft 6400/840 DALI |
| 106956 | BELTR LED 2.5ft 6500/840 DALI |
| 106957 | BELTR LED 2.5ft 8000/840 DALI |

Digitally dimmable DALI driver

| 3F | M1h | 3F M1h |
|--------|--------|--------|
| x | x | x |
| x | x | x |
| x | 106964 | x |
| x | 106965 | x |
| x | 106966 | x |
| x | 106967 | x |
| 106958 | x | x |
| 106959 | x | x |
| 106960 | 106968 | 106972 |
| 106961 | 106969 | 106973 |
| 106962 | 106970 | 106974 |
| 106963 | 106971 | 106975 |

BELTR LED SNS

| Code | Type |
|--------|------------------------------|
| 106976 | BELTR LED 2.2ft SNS 2600/840 |
| 106977 | BELTR LED 2.2ft SNS 3200/840 |
| 106978 | BELTR LED 2.4ft SNS 5200/840 |
| 106979 | BELTR LED 2.4ft SNS 6400/840 |
| 106980 | BELTR LED 2.5ft SNS 6500/840 |
| 106981 | BELTR LED 2.5ft SNS 8000/840 |

Microwave motion sensor

| 3F | M1h | 3F M1h |
|--------|--------|--------|
| 106982 | x | x |
| 106983 | x | x |
| 106984 | 106990 | 106996 |
| 106985 | 106991 | 106997 |
| 106986 | 106992 | 106998 |
| 106987 | 106993 | 106999 |

Example of type marking: 106999 = BELTR LED 2.5ft SNS 8000/840 **3F M3h**

LEGEND

3F 3-phase 5 core through-wiring in the luminaire
M1h emergency back-up source with 1 hour operating time for maintained emergency illumination
3F Mxh 3-phase 5 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

DALI version with digital dimmable driver DALI
DALI 3F 3-phase 7 core through-wiring in the luminaire
DALI 3F Mxh 3-phase 7 core through-wiring in the luminaire
 (L3 used for emergency unit unswitched power supply)

LIGHT FITTING ATTACHMENT

Directly to a ceiling or a wall with the use of screws



LIGHT FITTING DETAILED VIEW

BELTR LED



BELTR LED TUBE



... indoor, plastic, surface-mounted, batten.

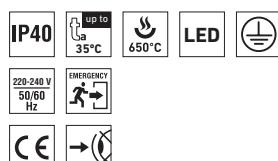
USE

The light fitting is suitable for offices, hallways, school interiors, libraries, lecture rooms, sanitary rooms, hospitals and passenger terminals.

Thanks to its high luminous efficiency and low electricity consumption it is a suitable replacement for light fittings with fluorescent tubes.

ADVANTAGES

- Light fitting protection **IP40**
- Maximum ambient temperature up to **$t_a = 35^\circ\text{C}$**
- Diffuser: transparent polycarbonate = high mechanical resistance
- Body: steel sheet, white colour (RAL 9003)
- Up to 45 % lower electricity consumption when compared to tubes T5
- It can be delivered in emergency version



BELTR LED TUBE



TECHNICAL DESCRIPTION

- Light fitting protection: IP40
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 hour; M1h)
- Maximum system efficacy: 86 lm/W
- MacAdam = 3 SDCM
- The watt and lumen values can vary by $\pm 7,5\%$
- Diffuser: transparent polycarbonate, UV stable, impact-resistant

- Body: steel sheet, white colour (RAL 9003)
- Side covers: white (ABS), UV stable
- Cable gland: white, rubber
- Terminal block: screwless, three-pole (basic version)
- Electric equipment: for LED tubes Osram SubstiTUBE T8 EM Value 4000 K, 6500 K; lampholder G13

| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|---|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 35^\circ\text{C}$ - body: steel sheet, white colour - diffuser: translucent polycarbonate - lampholder G13 | | | | | | | |
| BELTR LED TUBE 1x60 PC | 800* | 650 | 7,6 | 86 | 0,5 | 635 | 450 |
| BELTR LED TUBE 1x120 PC | 1700* | 1380 | 16,2 | 85 | 0,9 | 1245 | 900 |
| BELTR LED TUBE 1x150 PC | 2000* | 1620 | 19,1 | 85 | 1,1 | 1545 | 900 |
| BELTR LED TUBE 2x60 PC | 1600* | 1300 | 15,2 | 86 | 0,8 | 635 | 450 |
| BELTR LED TUBE 2x120 PC | 3400* | 2750 | 32,4 | 85 | 1,4 | 1245 | 900 |
| BELTR LED TUBE 2x150 PC | 4000* | 3240 | 38,2 | 85 | 1,7 | 1545 | 900 |

* - total luminous flux of the light fitting with Osram SubstiTUBE T8 EM Value sources

BELTR LED TUBE

| Code | Type |
|-------|----------------------|
| 37110 | BELTR LED TUBE 1x60 |
| 37120 | BELTR LED TUBE 1x120 |
| 37130 | BELTR LED TUBE 1x150 |
| 37140 | BELTR LED TUBE 2x60 |
| 37150 | BELTR LED TUBE 2x120 |
| 37160 | BELTR LED TUBE 2x150 |

For LED tubes Osram SubstiTUBE T8 EM Value

| 1F | 3F | M1h | M3h |
|----|----|-------|-------|
| x | x | x | x |
| x | x | x | x |
| x | x | x | x |
| x | x | 37144 | 37145 |
| x | x | 37154 | 37155 |
| x | x | 37164 | 37165 |

Example of type marking: 37164 = BELTR LED TUBE 2x150 **M1h**

LEGEND

- 1F** – 1 phase wiring cables for through-wiring
3F – 3 phase wiring cables for through-wiring
M1h – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination
M3h – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination
 Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT

Directly to a ceiling or a wall with the use of screws

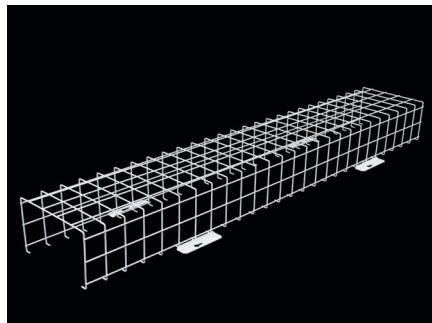
**LIGHT FITTING DETAILED VIEW**

BELTR LED TUBE



OM – protective grid

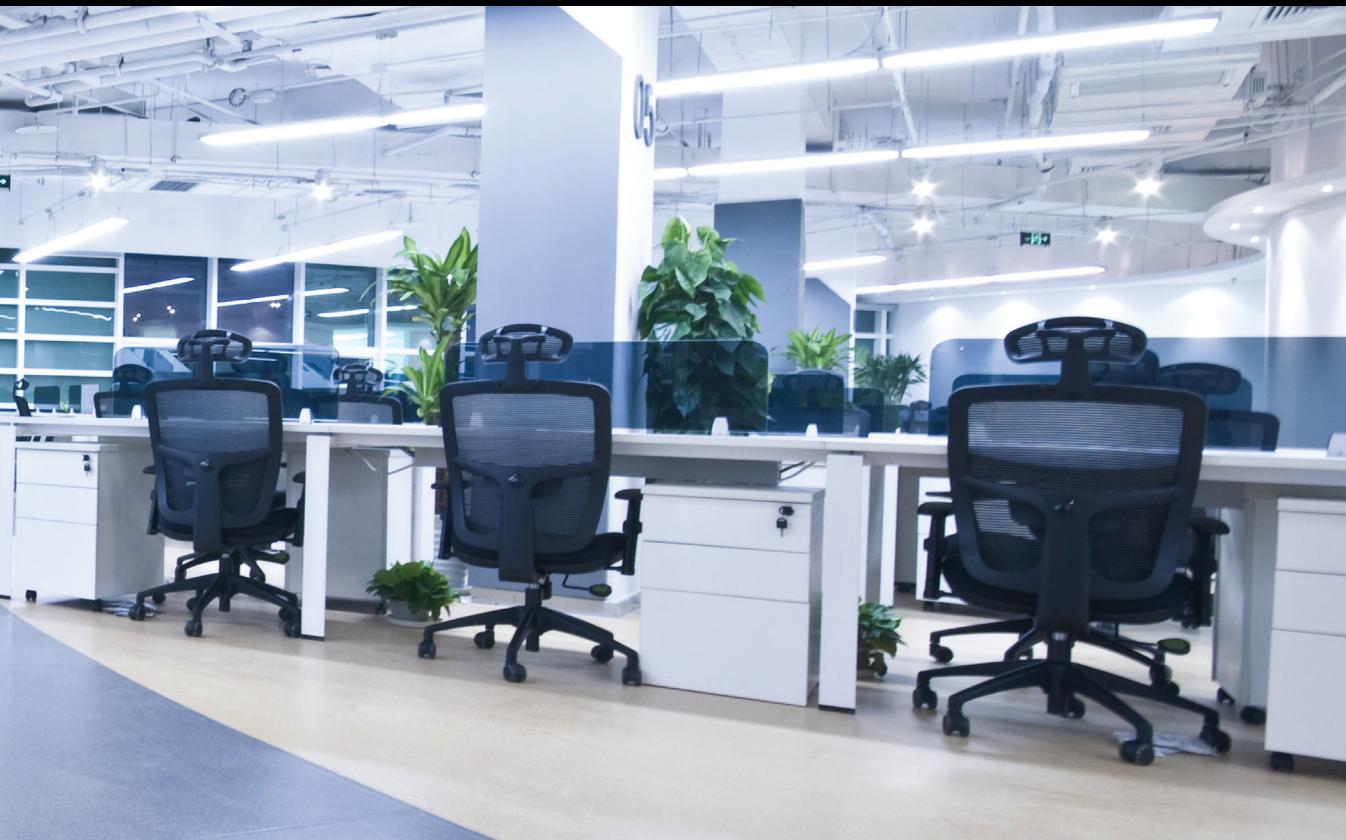
The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws. The surface is treated with the RAL 9003 powder-coated colour.



| Code | Type | Description | Weight [kg] |
|-------|--------|---|-------------|
| 11941 | OM 218 | protective grid for types 218, 214/224, 2.2ft (700×220×130 mm) | 1,0 |
| 11942 | OM 236 | protective grid for types 236, 228/254, 2.4ft (1300×220×130 mm) | 1,7 |
| 11943 | OM 258 | protective grid for types 258, 235/249/280, 2.5ft (1600×220×130 mm) | 2,0 |



NAOS



INDOOR
METAL



NAOS – indoor metal LED light fitting

NAOS
page 310



IP20

NAOS
page 310

NAOS AS
page 313



IP20

NAOS AS
page 313

NAOS SQUARE
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IP20

NAOS SQUARE
page 315

NAOS MPR
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IP20

NAOS MPR
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NAOS SQUARE MPR
page 320



IP20

NAOS SQUARE MPR
page 320

NAOS
ACCESSORIES
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NAOS
ACCESSORIES
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NAOS



... indoor, metal.

USE

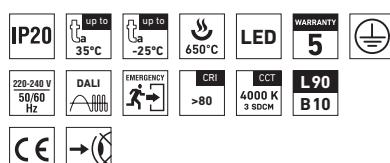
Advanced lamp with low profile of total height of 34 mm only.

Body of the lamp is made of painted metal sheet and it is supplemented with acryl diffuser sandblasted on both sides.

The light fitting is suitable for offices, hallways, school interiors, libraries, lecture rooms, sanitary rooms, hospitals and passenger terminals.

ADVANTAGES

- Light fitting protection **IP20**
- Maximum ambient temperature up to **t_a = 35 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: acryl (PMMA) sandblasted on both sides
- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Certification: ESČ



NAOS



TECHNICAL DESCRIPTION

- Light fitting protection: IP20
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 hour; M1h)
- Maximum system efficacy: 146 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: acryl (PMMA) sandblasted on both sides

- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour
- Cable gland: rubber (SBS), white
- Terminal block: screwless, five-pole
- Securing of the cover: by the means of magnets
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|--|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| For ambient temperature $t_a = 35^\circ\text{C}$ - body: steel sheet, white colour - diffuser made of sandblasted opalised acryl | | | | | | | | |
| NAOS 1.2ft 1300/840 | 1310 | 1060 | 8,2 | 129 | 23,2 / 23,6 | 2,0 | 620 | 470 |
| NAOS 1.2ft 1600/840 | 1560 | 1260 | 9,8 | 129 | 23,9 / 24,2 | 2,0 | 620 | 470 |
| NAOS 1.4ft 2600/840 | 2600 | 2110 | 16,1 | 131 | 23,3 / 23,6 | 3,7 | 1180 | 1030 |
| NAOS 1.4ft 3200/840 | 3100 | 2510 | 19,1 | 131 | 23,9 / 24,2 | 3,7 | 1180 | 1030 |
| NAOS 1.5ft 3250/840 | 3240 | 2620 | 19,5 | 134 | 23,3 / 23,6 | 4,4 | 1460 | 1310 |
| NAOS 1.5ft 4000/840 | 3850 | 3120 | 23,3 | 134 | 23,9 / 24,2 | 4,4 | 1460 | 1310 |
| NAOS 2.2ft 2600/840 | 2600 | 2160 | 16,1 | 134 | 24,1 / 24,3 | 2,6 | 620 | 470 |
| NAOS 2.2ft 3200/840 | 3100 | 2570 | 19,1 | 135 | 24,7 / 24,9 | 2,6 | 620 | 470 |
| NAOS 2.4ft 5200/840 | 5230 | 4340 | 30,3 | 143 | 24,1 / 24,4 | 4,6 | 1180 | 1030 |
| NAOS 2.4ft 6400/840 | 6240 | 5180 | 36,3 | 143 | 24,8 / 25,0 | 4,6 | 1180 | 1030 |
| NAOS 2.5ft 6500/840 | 6500 | 5400 | 37,1 | 146 | 24,1 / 24,4 | 5,5 | 1460 | 1310 |
| NAOS 2.5ft 8000/840 | 7770 | 6450 | 44,4 | 145 | 24,7 / 25,0 | 5,5 | 1460 | 1310 |

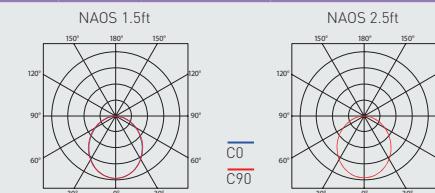
95050 NAOS 1.4ft 3200/840 = suitable replacement for T5 fl. tube light fitting LUXOR 154 OP ET5 - 1×54W
 95140 NAOS 2.4ft 6400/840 = suitable replacement for T5 fl. tube light fitting LUXOR 254 OP ET5 - 2×54W

NAOS

Diffuser made from sandblasted opalised acryl, white colour

| Code | Type | M1h | DALI | DALI M1h |
|-------|---------------------|-------|-------|----------|
| 95010 | NAOS 1.2ft 1300/840 | 95013 | 95015 | 95016 |
| 95020 | NAOS 1.2ft 1600/840 | 95023 | 95025 | 95026 |
| 95040 | NAOS 1.4ft 2600/840 | 95043 | 95045 | 95046 |
| 95050 | NAOS 1.4ft 3200/840 | 95053 | 95055 | 95056 |
| 95070 | NAOS 1.5ft 3250/840 | 95073 | 95075 | 95076 |
| 95080 | NAOS 1.5ft 4000/840 | 95083 | 95085 | 95086 |
| 95100 | NAOS 2.2ft 2600/840 | 95103 | 95105 | 95106 |
| 95110 | NAOS 2.2ft 3200/840 | 95113 | 95115 | 95116 |
| 95130 | NAOS 2.4ft 5200/840 | 95133 | 95135 | 95136 |
| 95140 | NAOS 2.4ft 6400/840 | 95143 | 95145 | 95146 |
| 95160 | NAOS 2.5ft 6500/840 | 95163 | 95165 | 95166 |
| 95170 | NAOS 2.5ft 8000/840 | 95173 | 95175 | 95176 |

Example of type marking: 95140 = NAOS 2.4ft 6400/840 **DALI M1h**



NAOS s

| Code | Type | Diffuser made from sandblasted opalised acryl, silver colour (s) | | |
|-------|-----------------------|--|-------|----------|
| | | M1h | DALI | DALI M1h |
| 95310 | NAOS 1.2ft 1300/840 s | 95313 | 95315 | 95316 |
| 95320 | NAOS 1.2ft 1600/840 s | 95323 | 95325 | 95326 |
| 95340 | NAOS 1.4ft 2600/840 s | 95343 | 95345 | 95346 |
| 95350 | NAOS 1.4ft 3200/840 s | 95353 | 95355 | 95356 |
| 95370 | NAOS 1.5ft 3250/840 s | 95373 | 95375 | 95376 |
| 95380 | NAOS 1.5ft 4000/840 s | 95383 | 95385 | 95386 |
| 95400 | NAOS 2.2ft 2600/840 s | 95403 | 95405 | 95406 |
| 95410 | NAOS 2.2ft 3200/840 s | 95413 | 95415 | 95416 |
| 95430 | NAOS 2.4ft 5200/840 s | 95433 | 95435 | 95436 |
| 95440 | NAOS 2.4ft 6400/840 s | 95443 | 95445 | 95446 |
| 95460 | NAOS 2.5ft 6500/840 s | 95463 | 95465 | 95466 |
| 95470 | NAOS 2.5ft 8000/840 s | 95473 | 95475 | 95476 |

Example of type marking: 95413 = NAOS 2.2ft 3200/840 **M1h** s

LEGEND

s – silver colour RAL 9006

DALI – version with electronic and digitally dimmed ballast module operated via DALI protocol

M1h – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws
- b) By suspending to a ceiling with the use of wire-cord suspensions



LIGHT FITTING DETAILED VIEW

NAOS



NAOS AS



... indoor, metal, asymmetrical.

USE

Advanced lamp with low profile of total height of 34 mm only.

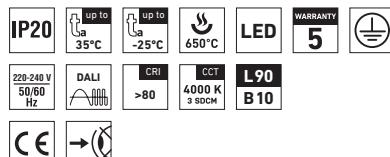
Made of painted metal, the luminaire body is complemented by an asymmetrical diffusor made of acrylic.

The fixture is a perfect choice for indoor areas, such as schools (including as a dedicated luminaire placed above the board to highlight the area), libraries, auditoriums and exhibition spaces.

ADVANTAGES

- Light fitting protection **IP20**
- Maximum ambient temperature up to **t_a = 35 °C**
- Lifetime: 50,000 hours / L90B10
- Diffusor: asymmetrical acrylic (PMMA)
- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Standard model - CRI > 80: 4000 K

- It can be delivered in dimmable version
- Certification: ESK



NAOS AS



TECHNICAL DESCRIPTION

- Light fitting protection: IP20
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$
- Maximum system efficacy: 147 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffusor: asymmetrical acrylic (PMMA)
- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour
- Cable gland: rubber (SBS), white
- Terminal block: screwless, five-pole

- Securing of the cover: by the means of magnets
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | Net weight [kg] | A [mm] | D [mm] |
|---|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------|--------|--------|
| | | | | | | C0 | C90 |
| For ambient temperature $t_a = 35^\circ\text{C}$ - body: steel sheet, white colour - diffusor: asymmetrical acrylic | | | | | | | |
| NAOS 1.4ft AS 6400/840 | 6360 | 5720 | 38,8 | 147 | 2,9 | 1218 | 1030 |

NAOS AS

| Code | Type |
|-------|------------------------|
| 10192 | NAOS 1.4ft AS 6400/840 |

Asymmetrical acrylic diffusor, white colour

| DALI |
|-------|
| 10198 |

NAOS AS s

| Code | Type |
|-------|--------------------------|
| 10455 | NAOS 1.4ft AS 6400/840 s |

Asymmetrical acrylic diffusor, silver colour (s)

| DALI |
|-------|
| 10492 |

LEGEND

– silver colour RAL 9006

DALI – version with electronic and digitally dimmed ballast module operated via DALI protocol

LIGHT FITTING ATTACHMENT

- Directly to a ceiling or a wall with the use of screws
- By suspending to a ceiling with the use of wire-cord suspensions



LIGHT FITTING DETAILED VIEW

NAOS AS



NAOS SQUARE



... indoor, square, metal.

USE

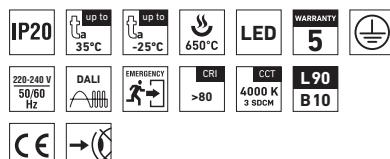
Advanced lamp with low profile of total height of 34 mm only.

Body of the lamp is made of painted metal sheet and it is supplemented with acryl diffuser sandblasted on both sides.

The light fitting is suitable for offices, hallways, school interiors, libraries, lecture rooms, sanitary rooms, hospitals and passenger terminals.

ADVANTAGES

- Light fitting protection **IP20**
- Maximum ambient temperature up to **t_a = 35 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: acryl (PMMA) sandblasted on both sides
- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Certification: ESČ



NAOS SQUARE



TECHNICAL DESCRIPTION

- Light fitting protection: IP20
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 143 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: acryl [PMMA] sandblasted on both sides

- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour
- Cable gland: rubber (SBS), white
- Terminal block: screwless, five-pole
- Securing of the cover: by the means of magnets
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] |
|--|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|
| For ambient temperature $t_a = 35^\circ\text{C}$ - body: steel sheet, white colour - diffuser made of sandblasted opalised acryl | | | | | | |
| NAOS SQUARE 5200/840 | 5230 | 4340 | 30,3 | 143 | 21.2 / 21.3 | 5,7 |
| NAOS SQUARE 6400/840 | 6240 | 5180 | 36,3 | 143 | 21.8 / 22.0 | 5,7 |

95710 NAOS SQUARE 5200/840 = suitable replacement surface mounted or recessed fluorescent light fittings 4x18W a 4x14W

NAOS SQUARE

| Code | Type |
|-------|----------------------|
| 95710 | NAOS SQUARE 5200/840 |
| 95720 | NAOS SQUARE 6400/840 |

Diffuser made from sandblasted opalised acryl, white colour

| M1h | M3h | DALI | DALI M1h | DALI M3h |
|-------|-------|-------|----------|----------|
| 95713 | 95714 | 95715 | 95716 | 95717 |
| 95723 | 95724 | 95725 | 95726 | 95727 |

NAOS SQUARE s

| Code | Type |
|-------|------------------------|
| 95750 | NAOS SQUARE 5200/840 s |
| 95760 | NAOS SQUARE 6400/840 s |

Diffuser made from sandblasted opalised acryl, silver colour (s)

| M1h | M3h | DALI | DALI M1h | DALI M3h |
|-------|-------|-------|----------|----------|
| 95753 | 95754 | 95755 | 95756 | 95757 |
| 95763 | 95764 | 95765 | 95766 | 95767 |

Example of type marking: 95756 = NAOS SQUARE 5200/840 DALI M1h s

LEGEND

s – silver colour RAL 9006

DALI – version with electronic and digitally dimmed ballast module operated via DALI protocol

M1h – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT

- Directly to a ceiling or a wall with the use of screws
- By suspending to a ceiling with the use of wire-cord suspensions
- Installation into 600 x 600mm grid lower ceiling



LIGHT FITTING DETAILED VIEW

NAOS SQUARE



NAOS MPR



... indoor, metal, with low UGR.

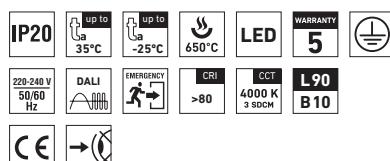
USE

Advanced lamp **with low profile** of total height **34 mm only**.

The light fitting is suitable for offices, hallways, school interiors, libraries, lecture rooms, sanitary rooms, hospitals and passenger terminals.

ADVANTAGES

- Light fitting protection **IP20**
- Maximum ambient temperature up to **$t_a = 35^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Diffuser: multi-layer micropyramid optics (MPR) with UGR < 19
- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Certification: ESČ



NAOS MPR



TECHNICAL DESCRIPTION

- Light fitting protection: IP20
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 hour; M1h)
- Maximum system efficacy: 137 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: multi-layer micropyramid optics MPR for light distribution without glare according to EN 12464-1 with UGR < 19

- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour
- Cable gland: rubber (SBS), white
- Terminal block: screwless, five-pole
- Securing of the cover: by the means of magnets
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] | D [mm] |
|---|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|--------|
| | | | | | | | C0 | C90 |
| For environment temperature $t_a = 35^\circ\text{C}$ - body made of white steel sheet - diffuser made of multilayer micropyramid optics | | | | | | | | |
| NAOS 2.4ft MPR 5200/840 | 5230 | 4080 | 30,3 | 135 | 18.5 / 18.6 | 6,1 | 1180 | 1030 |
| NAOS 2.5ft MPR 6500/840 | 6500 | 5070 | 37,1 | 137 | 18.5 / 18.6 | 7,6 | 1460 | 1310 |

95510 NAOS 2.4ft MPR 5200/840 = suitable replacement for T5 fl. tube light fitting LUXOR 235 OP ET5 – 2x35W
 95520 NAOS 2.4ft MPR 6500/840 = suitable replacement for T5 fl. tube light fitting LUXOR 249 OP ET5 – 2x49W

NAOS MPR

Diffuser with multilayer micropyramid optics, white colour

| Code | Type | M1h | DALI | DALI M1h |
|-------|-------------------------|-------|-------|----------|
| 95510 | NAOS 2.4ft MPR 5200/840 | 95513 | 95515 | 95516 |
| 95520 | NAOS 2.5ft MPR 6500/840 | 95523 | 95525 | 95526 |

NAOS MPR s

Diffuser with multilayer micropyramid optics, silver colour (s)

| Code | Type | M1h | DALI | DALI M1h |
|-------|---------------------------|-------|-------|----------|
| 95610 | NAOS 2.4ft MPR 5200/840 s | 95613 | 95615 | 95616 |
| 95620 | NAOS 2.5ft MPR 6500/840 s | 95623 | 95625 | 95626 |

Example of type marking: 95626 = NAOS 2.5ft MPR 6500/840 **DALI M1h**

LEGEND

s – silver colour RAL 9006

DALI – version with electronic and digitally dimmed ballast module operated via DALI protocol

M1h – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws
- b) By suspending to a ceiling with the use of wire-cord suspensions

**LIGHT FITTING DETAILED VIEW**

NAOS MPR



NAOS SQUARE MPR



... indoor, square, metal, with low UGR.

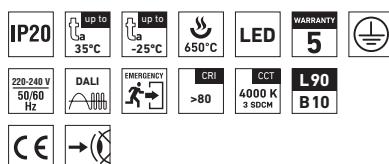
USE

Advanced lamp **with low profile** of total height **34 mm only**.

The light fitting is suitable for offices, hallways, school interiors, libraries, lecture rooms, sanitary rooms, hospitals and passenger terminals.

ADVANTAGES

- Light fitting protection **IP20**
- Maximum ambient temperature up to **$t_a = 35^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Diffuser: multi-layer micropyramid optics (MPR) with UGR < 19
- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour
- Up to 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or emergency version
- Certification: ESČ



NAOS SQUARE MPR



TECHNICAL DESCRIPTION

- Light fitting protection: IP20
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source for 1 or 3 hours; M1h, M3h)
- Maximum system efficacy: 135 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: multi-layer micropyramid optics MPR for light distribution without glare according to EN 12464-1 with UGR < 19

- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour
- Cable gland: rubber (SBS), white
- Terminal block: screwless, five-pole
- Securing of the cover: by the means of magnets
- Electric equipment: LED modules, current driver or current driver DALI

| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] |
|---|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|
| For environment temperature $t_a = 35^\circ\text{C}$ - body made of white steel sheet - diffuser made of multilayer micropyramid optics | | | | | | |
| NAOS SQUARE MPR 5200/840 | 5230 | 4080 | 30,3 | 135 | 18,3 / 18,7 | 5,7 |

95810 NAOS SQUARE MPR 5200/840 = suitable replacement surface mounted or recessed fluorescent light fittings 4×18W a 4×14W

NAOS SQUARE MPR

| Code | Type |
|-------|--------------------------|
| 95810 | NAOS SQUARE MPR 5200/840 |

Diffuser with multilayer micropyramid optics, white colour

| M1h | M3h | DALI | DALI M1h | DALI M3h |
|-------|-------|-------|----------|----------|
| 95813 | 95814 | 95815 | 95816 | 95817 |

NAOS SQUARE MPR s

| Code | Type |
|-------|----------------------------|
| 95850 | NAOS SQUARE MPR 5200/840 s |

Diffuser with multilayer micropyramid optics, silver colour (s)

| M1h | M3h | DALI | DALI M1h | DALI M3h |
|-------|-------|-------|----------|----------|
| 95853 | 95854 | 95855 | 95856 | 95857 |

Example of type marking: 95856 = NAOS SQUARE MPR 5200/840 **DALI M1h s**

LEGEND

s – silver colour RAL 9006

DALI – version with electronic and digitally dimmed ballast module operated via DALI protocol

M1h – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING ATTACHMENT

- Directly to a ceiling or a wall with the use of screws
- By suspending to a ceiling with the use of wire-cord suspensions
- Installation into 600 × 600 mm grid lower ceiling



LIGHT FITTING DETAILED VIEW

NAOS SQUARE MPR



Ceiling suspender kit for NAOS, NAOS AS luminaires

| Code | Type | Description | Weight [kg] |
|--------|-----------|---|-------------|
| 101344 | ZL 1 - S3 | a wire suspension kit with a maximum length of 1.5m to hang single-line light fixtures (1.2ft, 1.4ft, 1.5ft) including a 3-core supply cable (a steel Y wire with a keyhole hanging bracket and a span of 150 mm including a ceiling wire holder clip – 2 pcs, supply cable, ceiling rose, three-pole terminal block) | 0,2 |
| 101458 | ZL 1 - S5 | a wire suspension kit with a maximum length of 1.5m to hang single-line light fixtures (1.2ft, 1.4ft, 1.5ft) including a 5-core supply cable (a steel Y wire with a keyhole hanging bracket and a span of 150 mm including a ceiling wire holder clip – 2 pcs, supply cable, ceiling rose, three-pole terminal block) | 0,2 |
| Code | Type | Description | Weight [kg] |
| 101456 | ZL 2 - S3 | a wire suspension kit with a maximum length of 1.5m to hang double-line light fixtures (2.2ft, 2.4ft, 2.5ft) including a 3-core supply cable (a steel Y wire with a keyhole hanging bracket and a span of 300 mm including a ceiling wire holder clip – 2 pcs, supply cable, ceiling rose, three-pole terminal block) | 0,2 |
| 101494 | ZL 2 - S5 | a wire suspension kit with a maximum length of 1.5m to hang double-line light fixtures (2.2ft, 2.4ft, 2.5ft) including a 5-core supply cable (a steel Y wire with a keyhole hanging bracket and a span of 300 mm including a ceiling wire holder clip – 2 pcs, supply cable, ceiling rose, three-pole terminal block) | 0,2 |

Ceiling suspender kit for NAOS MPR luminaires

| Code | Type | Description | Weight [kg] |
|--------|-----------|---|-------------|
| 101456 | ZL 2 - S3 | a wire suspension kit with a maximum length of 1.5m to hang double-line light fixtures (2.2ft, 2.4ft, 2.5ft) including a 3-core supply cable (a steel Y wire with a keyhole hanging bracket and a span of 300 mm including a ceiling wire holder clip – 2 pcs, supply cable, ceiling rose, three-pole terminal block) | 0,2 |
| 101494 | ZL 2 - S5 | a wire suspension kit with a maximum length of 1.5m to hang double-line light fixtures (2.2ft, 2.4ft, 2.5ft) including a 5-core supply cable (a steel Y wire with a keyhole hanging bracket and a span of 300 mm including a ceiling wire holder clip – 2 pcs, supply cable, ceiling rose, three-pole terminal block) | 0,2 |

Ceiling suspender kit for NAOS SQUARE, NAOS SQUARE MPR luminaires

| Code | Type | Description | Weight [kg] |
|--------|-----------|---|-------------|
| 101457 | ZL 3 - S3 | a wire suspension kit with a maximum length of 1.5 m to hang square light fixtures including a 3-core supply cable (a steel wire with a keyhole hanging bracket and a ceiling hook – 4 pcs, M5 bolt with a fan disc washer – 4pcs, supply cable, ceiling rose, three-pole terminal block) | 0,2 |
| 101495 | ZL 3 - S5 | a wire suspension kit with a maximum length of 1.5 m to hang square light fixtures including a 5-core supply cable (a steel wire with a keyhole hanging bracket and a ceiling hook – 4 pcs, M5 bolt with a fan disc washer – 4pcs, supply cable, ceiling rose, five-pole terminal block) | 0,2 |



MO SLIM



INDOOR
BATTEN



MO SLIM – indoor batten LED light fittings

MO SLIM
page 326



IP20

MO SLIM
page 326

MO SLIM



... indoor suspended LED light fitting.

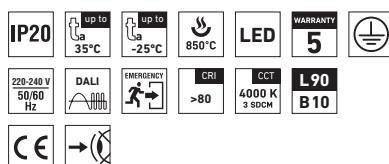
USE

Interior light fitting from aluminum profile and PC of diffuser It is suitable for selling premises, offices, corridors, entrance and terminal halls, interiors of schools, lecture rooms and hospitals. The light fittings can be easily connected to different lengths and shapes.

ADVANTAGES

- Light fitting protection **IP20**
- Maximum ambient temperature up to **$t_a = 35^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Possibility of connection of light fittings to required lengths and shapes
- Diffuser: translucent polycarbonate (PC)
- Body: aluminium profile, white (RAL 9003) or silver (RAL 9006) colour
- Up to 45 % lower electricity consumption when compared to tubes T5

- In DALI version possibility of constant luminous flux for whole lifetime (CLO)
- Standard model - CRI > 80: 4000 K
- At request CRI > 80: 3000 K, 5000 K, 6500 K, CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- It can be delivered in dimmable or permanent emergency version M1h and M3hAt
- Through-wiring in basic version



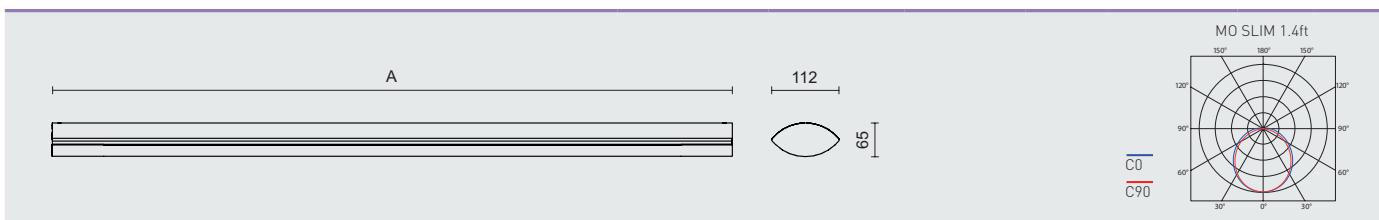
MO SLIM



TECHNICAL DESCRIPTION

- Light fitting protection: IP20
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-25^\circ\text{C}$ (version with emergency back-up source M1h or M3hAt)
- Maximum system efficacy: 151 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Standard model - CRI > 80: 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L90B10
- Diffuser: translucent polycarbonate (PC)
- Body: aluminium profile, white (RAL 9003) or silver (RAL 9006) colour

- Reflector: steel sheet, white colour (RAL 9003)
- Terminal block: 2x screwless-type, five-poles, three-phase connection
- Electric equipment: LED modules, current driver or current driver DALI
- The package does not include end caps, connecting pieces or suspension. Accessories must **always** be ordered for installation.



| Type | Luminous flux of LED modules [lm] | Luminous flux of light fitting [lm] | Power consumption [W] | System efficacy [lm/W] | UGR Longitudinal/transverse | Net weight [kg] | A [mm] |
|--|-----------------------------------|-------------------------------------|-----------------------|------------------------|-----------------------------|-----------------|--------|
| For ambient temperature $t_a = 35^\circ\text{C}$ - aluminum profile of white color - diffuser: translucent polycarbonate | | | | | | | |
| MO SLIM 1.2ft 1300/840 | 1310 | 1130 | 8,2 | 138 | 23,3 / 22,1 | 1,7 | 570 |
| MO SLIM 1.2ft 1600/840 | 1560 | 1340 | 9,8 | 137 | 23,9 / 22,7 | 1,7 | 570 |
| MO SLIM 1.2ft 2200/840 | 2140 | 1840 | 13,2 | 139 | 25,0 / 23,8 | 1,7 | 570 |
| MO SLIM 1.4ft 2600/840 | 2600 | 2240 | 16,1 | 139 | 23,3 / 22,1 | 2,9 | 1130 |
| MO SLIM 1.4ft 3200/840 | 3100 | 2670 | 19,1 | 140 | 23,9 / 22,7 | 2,9 | 1130 |
| MO SLIM 1.4ft 4400/840 | 4300 | 3700 | 26,0 | 142 | 25,0 / 23,8 | 2,9 | 1130 |
| MO SLIM 1.4ft 6400/840 | 6120 | 5260 | 36,1 | 146 | 26,2 / 25,1 | 2,9 | 1130 |
| MO SLIM 1.5ft 3250/840 | 3240 | 2790 | 19,5 | 143 | 23,2 / 22,1 | 3,4 | 1410 |
| MO SLIM 1.5ft 4000/840 | 3850 | 3310 | 23,3 | 142 | 23,8 / 22,7 | 3,4 | 1410 |
| MO SLIM 1.5ft 5500/840 | 5340 | 4590 | 31,9 | 144 | 25,0 / 23,8 | 3,4 | 1410 |
| MO SLIM 1.5ft 8000/840 | 7780 | 6690 | 44,3 | 151 | 26,3 / 25,1 | 3,4 | 1410 |

MO SLIM

Body: white colour (RAL 9003)

| Code | Type | M1h | M3hAt | DALI | DALI M1h | DALI M3hAt |
|-------|------------------------|-------|-------|-------|----------|------------|
| 63873 | MO SLIM 1.2ft 1300/840 | x | x | 63917 | x | x |
| 63878 | MO SLIM 1.2ft 1600/840 | x | x | 63922 | x | x |
| 63859 | MO SLIM 1.2ft 2200/840 | x | x | 63908 | x | x |
| 63887 | MO SLIM 1.4ft 2600/840 | 63905 | 63943 | 63937 | 63910 | 63951 |
| 63899 | MO SLIM 1.4ft 3200/840 | 63934 | 63947 | 63945 | 63938 | 63955 |
| 63903 | MO SLIM 1.4ft 4400/840 | 63942 | 63916 | 63949 | 63950 | 63926 |
| 63874 | MO SLIM 1.4ft 6400/840 | 63946 | 63921 | 63918 | 63954 | 63931 |
| 63879 | MO SLIM 1.5ft 3250/840 | 63915 | 63907 | 63923 | 63925 | 63912 |
| 63904 | MO SLIM 1.5ft 4000/840 | 63920 | 63936 | 63909 | 63930 | 63940 |
| 63914 | MO SLIM 1.5ft 5500/840 | 63906 | 63944 | 63924 | 63911 | 63952 |
| 63919 | MO SLIM 1.5ft 8000/840 | 63935 | 63948 | 63929 | 63939 | 63956 |

MO SLIM s

Body: silver colour (RAL 9006)

| Code | Type | M1h | M3hAt | DALI | DALI M1h | DALI M3hAt |
|-------|--------------------------|-------|-------|-------|----------|------------|
| 63927 | MO SLIM 1.2ft 1300/840 s | x | x | 10619 | x | x |
| 63932 | MO SLIM 1.2ft 1600/840 s | x | x | 10621 | x | x |
| 63913 | MO SLIM 1.2ft 2200/840 s | x | x | 10622 | x | x |
| 63941 | MO SLIM 1.4ft 2600/840 s | 10502 | 10517 | 10626 | 10762 | 10789 |
| 63953 | MO SLIM 1.4ft 3200/840 s | 10503 | 10518 | 10751 | 10768 | 10792 |
| 63957 | MO SLIM 1.4ft 4400/840 s | 10504 | 10599 | 10752 | 10769 | 10794 |
| 63928 | MO SLIM 1.4ft 6400/840 s | 10506 | 10608 | 10753 | 10772 | 10795 |
| 63933 | MO SLIM 1.5ft 3250/840 s | 10508 | 10612 | 10756 | 10778 | 10796 |
| 10497 | MO SLIM 1.5ft 4000/840 s | 10509 | 10614 | 10757 | 10779 | 10797 |
| 10498 | MO SLIM 1.5ft 5500/840 s | 10511 | 10615 | 10758 | 10782 | 10798 |
| 10500 | MO SLIM 1.5ft 8000/840 s | 10513 | 10617 | 10759 | 10788 | 10799 |

Example of type marking: 63921 = MO SLIM 1.4ft 6400/840 **M3hAt**

LEGEND

s – silver colour RAL 9006

DALI – version with electronic and digitally dimmed ballast module operated via DALI protocol

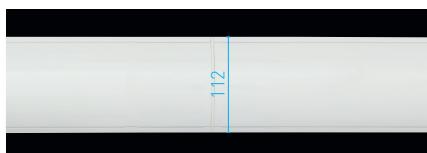
M1h – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination

M3hAt – emergency back-up source with operating time of 1 hour (SA) for both permanent and emergency illumination with battery autotesting

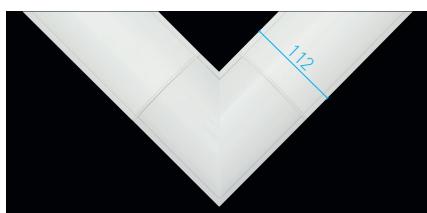
Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

LIGHT FITTING DETAILED VIEW

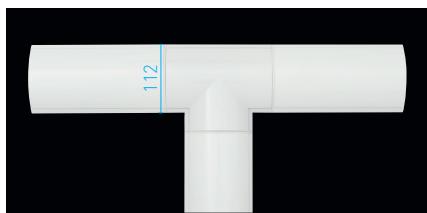
MO SLIM



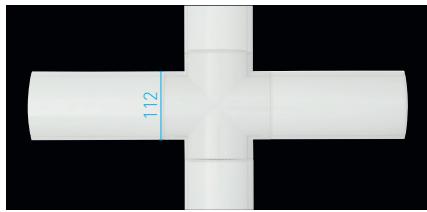
| Code | Type | Description | Weight [kg] |
|-------|---------------|---|-------------|
| 10802 | MO SLIM - S | direct connection of light fittings into row, white RAL 9003 | 0,5 |
| 10809 | MO SLIM - S s | direct connection of light fittings into row, silver RAL 9006 | 0,5 |



| Code | Type | Description | Weight [kg] |
|-------|---------------|--|-------------|
| 10808 | MO SLIM - L | connection of light fittings in L shape with angle of 90°, white RAL 9003 | 0,6 |
| 10812 | MO SLIM - L s | connection of light fittings in L shape with angle of 90°, silver RAL 9006 | 0,6 |



| Code | Type | Description | Weight [kg] |
|-------|---------------|--|-------------|
| 10822 | MO SLIM - T | connection of light fittings in T shape with angle of 90°, white RAL 9003 | 0,6 |
| 10828 | MO SLIM - T s | connection of light fittings in T shape with angle of 90°, silver RAL 9006 | 0,6 |



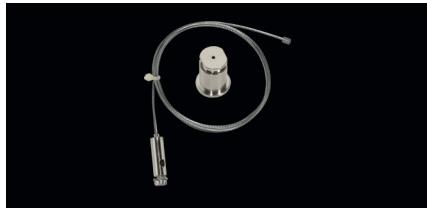
| Code | Type | Description | Weight [kg] |
|-------|---------------|--|-------------|
| 10829 | MO SLIM - X | connection of light fittings in X shape with angle of 90°, white RAL 9003 | 0,6 |
| 10832 | MO SLIM - X s | connection of light fittings in X shape with angle of 90°, silver RAL 9006 | 0,6 |



| Code | Type | Description | Weight [kg] |
|-------|---------------|----------------------------------|-------------|
| 10818 | MO SLIM - K | plastic end cap, white RAL 9003 | 0,3 |
| 10819 | MO SLIM - K s | plastic end cap, silver RAL 9006 | 0,3 |



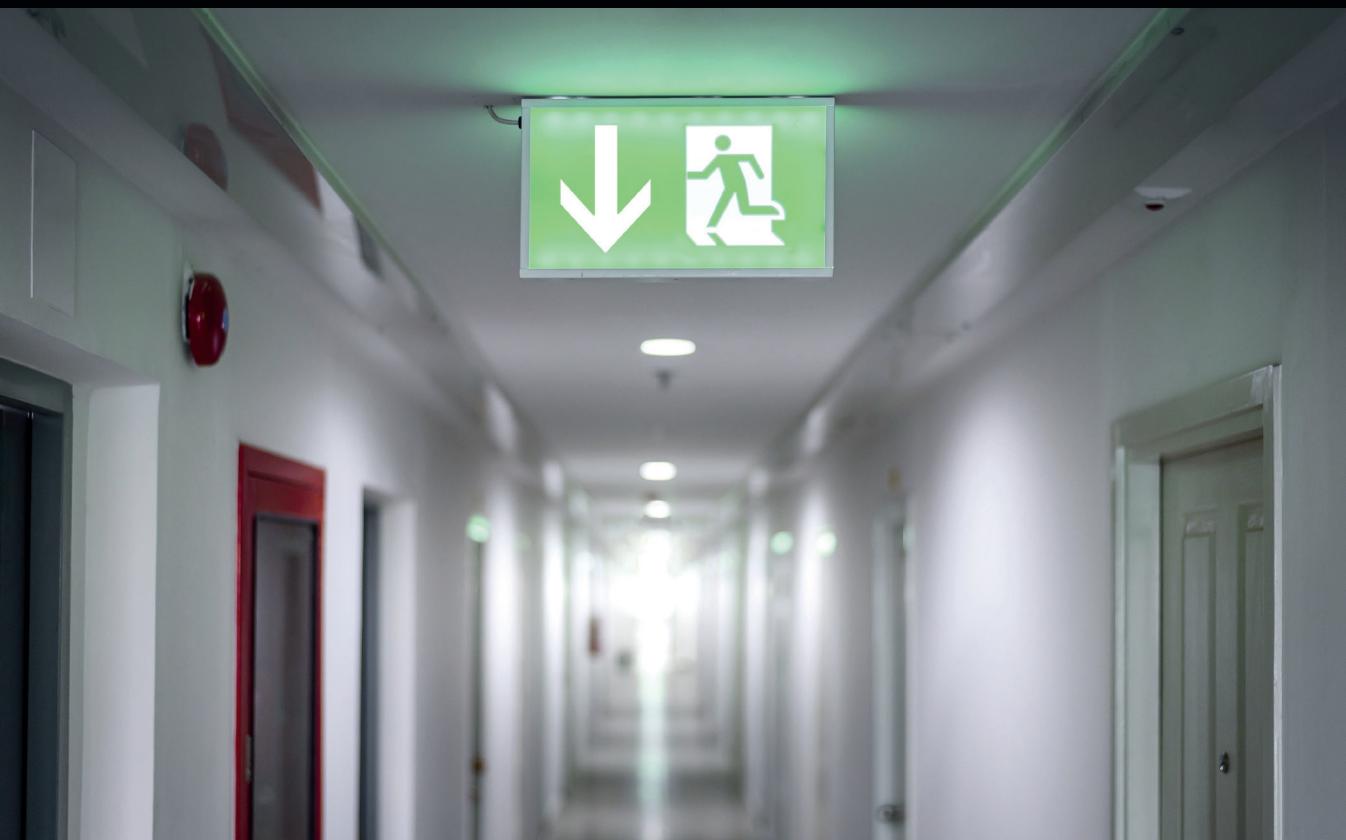
| Code | Type | Description | Weight [kg] |
|-------|-----------|---|-------------|
| 16101 | Z4 - F1 | wire-cord suspensions and joints, white RAL 9003 | 0,1 |
| 16102 | Z4 - F1 s | wire-cord suspensions and joints, silver RAL 9006 | 0,1 |



| Code | Type | Description | Weight [kg] |
|-------|------|--------------------------------|-------------|
| 16104 | Z4 | wire-cord suspension and joint | 0,1 |



EMERGENCY LED



PRIMA
FUTURA
PERUN SLIM
BELTR LED
HELIOS LED
PLEXI LED



PRIMA LED – plastic emergency LED light fitting

PRIMA LED NM
page 332



IP66

PRIMA LED NM
page 332

PRIMA LED Ex NM
page 335

FUTURA – plastic emergency LED light fitting

FUTURA NM
page 337



IP66

FUTURA NM
page 337

PRIMA – plastic emergency LED light fitting

PRIMA NM
page 340



IP66

PRIMA NM
page 340

PERUN SLIM – metal emergency LED light fitting

PERUN SLIM Ex NM
page 343



IP65

PERUN SLIM Ex NM
page 343

BELTR LED NM – plastic emergency LED light fitting

BELTR LED NM
page 346



IP40

BELTR LED NM
page 346



BELTR LED NM
ACCESSORIES
page 354

HELIOS LED – all-plastic emergency LED light fitting

HELIOS LED
page 349



IP42

IP65

HELIOS LED
page 350



HELIOS DS LED
page 351



HELIOS LED
ACCESSORIES
page 354

PLEXI LED – emergency LED light fitting for installation into plasterboard lower ceilings

PLEXI LED
page 352



IP20

PLEXI LED
page 352



PLEXI LED
ACCESSORIES
page 354

PRIMA LED NM



... emergency.

USE

Non-maintained emergency luminaire for escape routes, available for use in high ambient temperature, $t_a = 50^\circ\text{C}$, is intended by its function and shape primarily for being in a set with Prima LED and Innova light fittings.

It is recommended for escape routes of interior industrial rooms, storage halls, sports premises, agricultural buildings and laboratories without hazard of explosion of gases, dusts and flammable vapours.

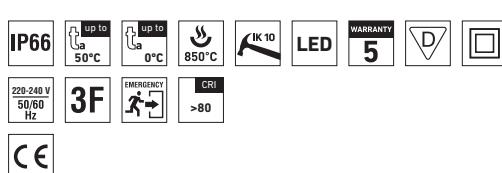
It is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have increased resistance against deformation and impact.

Atmosphere emissions must be considered, as they may reduce the usability of plastics at installation in aggressive environment, see p. 367.

ADVANTAGES

- Light fitting protection **IP66**
- High thermal resistance ranging **from $t_a = 0^\circ\text{C}$ to $t_a = 50^\circ\text{C}$** also for basic Ni-Cd battery type
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Emergency module **1h or 3h**
- Optional selection of EM kit with battery autotest

- Integrated diode for indication of correct operation
- Optional selection of battery type between **Ni-Cd** or **LiFePO₄**
- Low energy consumption in StandBy mode
- Optional selection of connection between **cable gland** or **connector**
- Insulation class II



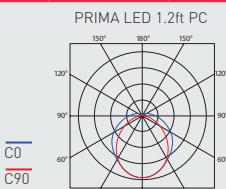
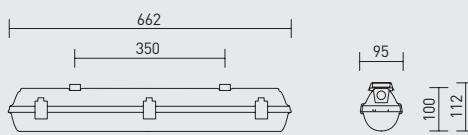
PRIMA LED PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: **$t_a = 50^\circ\text{C}$**
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- Maximum light fitting efficiency: 133 lm/W
- **CRI > 80: 6500 K**
- MacAdam = 3 SDCM
- Diffuser: translucent PC (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: white steel sheet (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foam-filled body

- groove
- Light fitting connection: **cable gland PG 13,5 / 16** or **connector**
- Distance holder: polyamide + 10 % glass fibre
- Electric equipment:
EM kit including Ni-Cd battery without autotest, LED module
EM kit including LiFePO₄ battery with autotest, LED module
- The package includes: stainless hooks and stainless brackets
- 1-year warranty for battery, 2-year warranty for EM kit (unit + LED module)
- The above stated values of power consumption and luminous flux are within a tolerance of $\pm 7,5\%$



| Type | Autonomy [hrs] | Luminous flux of light fitting [lm] | Power in emergency mode [W] | Light fitting efficiency [lm/W] | Battery type | Power in standby mode [W] | Charging time [hrs] | Power in charging mode [W] | Net weight [kg] |
|---|-------------------|---|--------------------------------------|---------------------------------------|---------------------|------------------------------------|---------------------------|-------------------------------------|-----------------------|
| Non-maintained emergency luminaire without autotest | | | | | | | | | |
| PRIMA LED 1.2ft PC NM1h | 1 | 440 | 4,5 | 98 | Ni-Cd | 1,5 | 24 | 9 | 1,2 |
| PRIMA LED 1.2ft PC NM3h | 3 | 440 | 4,5 | 98 | Ni-Cd | 1,5 | 24 | 9 | 1,4 |
| Non-maintained emergency luminaire with autotest | | | | | | | | | |
| PRIMA LED 1.2ft PC NM1hAt | 1 | 440 | 3,3 | 133 | LiFePO ₄ | 0,7 | 12 | 3,5 | 1,2 |
| PRIMA LED 1.2ft PC NM3hAt | 3 | 440 | 3,3 | 133 | LiFePO ₄ | 0,7 | 12 | 3,5 | 1,4 |

PRIMA LED PC with cable glands

| Type | NM1h | 3F NM1h | DALI 3F NM1h | NM3h | 3F NM3h | DALI 3F NM3h |
|--|--------|-----------|----------------|--------|-----------|----------------|
| PRIMA LED 1.2ft PC ... | 62210 | 62211 | x | 62213 | 62214 | x |
| Non-maintained emergency luminaire with autotest - cable glands PG 13,5 / 16 - plastic clips | | | | | | |
| Type | NM1hAt | 3F NM1hAt | DALI 3F NM1hAt | NM3hAt | 3F NM3hAt | DALI 3F NM3hAt |
| PRIMA LED 1.2ft PC ... | 62220 | 62221 | x | 62223 | 62224 | x |

PRIMA LED PCc with cable glands

| Type | NM1h | 3F NM1h | DALI 3F NM1h | NM3h | 3F NM3h | DALI 3F NM3h |
|--|--------|-----------|----------------|--------|-----------|----------------|
| PRIMA LED 1.2ft PCc ... | 62230 | 62231 | x | 62233 | 62234 | x |
| Non-maintained emergency luminaire with autotest - cable glands PG 13,5 / 16 - stainless clips (c) | | | | | | |
| Type | NM1hAt | 3F NM1hAt | DALI 3F NM1hAt | NM3hAt | 3F NM3hAt | DALI 3F NM3hAt |
| PRIMA LED 1.2ft PCc ... | 62240 | 62241 | x | 62243 | 62244 | x |

PRIMA LED PC with connectors

| Type | L1 2x5P NM1h | L3 2x5P NM1h | L1 2x7P NM1h | L1 2x5P NM3h | L3 2x5P NM3h | L1 2x7P NM3h |
|---|----------------|----------------|----------------|----------------|----------------|----------------|
| PRIMA LED 1.2ft PC ... | 62250 | 62251 | 62252 | 62253 | 62254 | 62255 |
| Non-maintained emergency luminaire with autotest - interconnecting connectors - plastic clips | | | | | | |
| Type | L1 2x5P NM1hAt | L3 2x5P NM1hAt | L1 2x7P NM1hAt | L1 2x5P NM3hAt | L3 2x5P NM3hAt | L1 2x7P NM3hAt |
| PRIMA LED 1.2ft PC ... | 62260 | 62261 | 62262 | 62263 | 62264 | 62265 |

PRIMA LED PCc with connectors

| Type | L1 2x5P NM1h | L3 2x5P NM1h | L1 2x7P NM1h | L1 2x5P NM3h | L3 2x5P NM3h | L1 2x7P NM3h |
|--|----------------|----------------|----------------|----------------|----------------|----------------|
| PRIMA LED 1.2ft PCc ... | 62270 | 62271 | 62272 | 62273 | 62274 | 62275 |
| Non-maintained emergency luminaire without autotest - interconnecting connectors - stainless clips (c) | | | | | | |
| Type | L1 2x5P NM1hAt | L3 2x5P NM1hAt | L1 2x7P NM1hAt | L1 2x5P NM3hAt | L3 2x5P NM3hAt | L1 2x7P NM3hAt |
| PRIMA LED 1.2ft PCc ... | 62280 | 62281 | 62282 | 62283 | 62284 | 62285 |

LEGEND

| | |
|---------------------|---|
| NM1h | - non-maintained emergency luminaire, operation time 1 hour |
| 3F NM1h | - non-maintained emergency luminaire, operation time 1 hour, 5-wire throughwiring (3F) |
| DALI 3F NM1h | - non-maintained emergency luminaire, operation time 1 hour, 7-wire throughwiring (DALI 3F) |
| NM3h | - non-maintained emergency luminaire, operation time 3 hours |
| 3F NM3h | - non-maintained emergency luminaire, operation time 3 hours, 5-wire throughwiring (3F) |
| DALI 3F NM3h | - non-maintained emergency luminaire, operation time 3 hours, 7-wire throughwiring (DALI 3F) |
| L1 2x5P NM1h | - non-maintained emergency luminaire, 2x5P connectors and 5-wire throughwiring (3F), operation time 1 hour, line connection, power supply from L1 |
| L3 2x5P NM1h | - non-maintained emergency luminaire, 2x5P connectors and 5-wire throughwiring (3F), operation time 1 hour, line connection, power supply from L3 |
| L1 2x7P NM1h | - non-maintained emergency luminaire, 2x7P connectors and 7-wire throughwiring (DALI 3F), operation time 1 hour, line connection, power supply from L1 |
| L1 2x5P NM3h | - non-maintained emergency luminaire, 2x5P connectors and 5-wire throughwiring (3F), operation time 3 hours, line connection, power supply from L1 |
| L3 2x5P NM3h | - non-maintained emergency luminaire, 2x5P connectors and 5-wire throughwiring (3F), operation time 3 hours, line connection, power supply from L3 |
| L1 2x7P NM3h | - non-maintained emergency luminaire, 2x7P connectors and 7-wire throughwiring (DALI 3F), operation time 3 hours, line connection, power supply from L1 |
| ...At | - version with battery autotest |

Module signalling without autotest

| LED colour | Information |
|------------|-----------------------------|
| ● green | |
| flashing | battery charging |
| - | running test/emergency mode |

Module signalling with autotest [At]

| LED colour | Information |
|------------|-----------------------------|
| ● green | ● red |
| flashing | - |
| - | battery charging |
| - | defective LED module |
| - | shining |
| - | defective battery |
| - | - |
| - | running test/emergency mode |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
 b) Suspension with the use of stainless hooks

**LIGHT FITTING DETAILED VIEW**

PRIMA LED PC



PRIMA LED Ex NM



... emergency and orientation.

USE

Non-maintained emergency luminaire for escape routes, available for use in high ambient temperature, $t_a = 50^\circ\text{C}$, is intended by its function and shape primarily for being in a set with Prima LED Ex light fittings.

The light fitting is suitable for the environment with a danger of explosion of gas, dust and combustible fumes. The light fittings meet the requirements of Government Decree 116/2016 Coll. and European Community Directive 2014/34/EU.

The basic requirements for safety and health protection are secured by the verification of conformity with the standards according to EN 60079-15, EN 60079-0 and EN 60079-31.

It is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have increased resistance against deformation and impact.

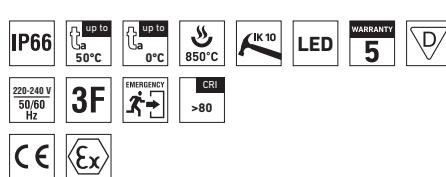
Atmosphere emissions must be considered, as they may reduce the usability of plastics at installation in aggressive environment, see p. 367.

ADVANTAGES

- Light fitting protection **IP66**
- High thermal resistance ranging **from $t_a = 0^\circ\text{C}$ to $t_a = 50^\circ\text{C}$** also for basic Ni-Cd battery type
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Emergency module **1h or 3h**

- Integrated diode for indication of correct operation
- Low energy consumption in StandBy mode
- Certification: TÜV CY 22 ATEX 0206610 X Issue: 01

The light fitting is certified for the environment:
Ex II 3G Ex nR IIC T6 Gc
Ex II 3D Ex tc IIIC T70°C Dc



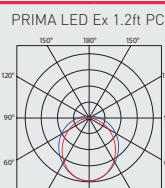
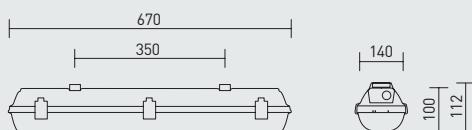
PRIMA LED Ex PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: **$t_a = 50^\circ\text{C}$**
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- **CRI > 80: 6500 K**
- MacAdam = 3 SDCM
- Diffuser: translucent PC (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: white steel sheet (RAL 9003)
- Clips: stainless steel + polyamide
- Sealing: polyurethane (PUR), foam-filled body groove

- Light fitting connection: **cable gland M20x1,5 ATEX**
- Distance holder: polyamide + 10 % glass fibre
- Electric equipment: **EM kit including Ni-Cd battery without autotest, LED module**
- The package includes: stainless hooks and stainless brackets
- 1-year warranty for battery, 2-year warranty for EM kit (unit + LED module)
- The above stated values of power consumption and luminous flux are within a tolerance of $\pm 7,5\%$
- Pictogram: optional accessory



| Type | Autonomy [hrs] | Luminous flux of light fitting [lm] | Power in emergency mode [W] | Battery type | Power in standby mode [W] | Charging time [hrs] | Power in charging mode [W] | Net weight [kg] |
|---|-------------------|---|--------------------------------------|-----------------|------------------------------------|---------------------------|-------------------------------------|-----------------------|
| Non-maintained emergency luminaire without autotest | | | | | | | | |
| PRIMA LED Ex 1.2ft PCc NM1h | 1 | 440 | 7 | Ni-Cd | 1,5 | 24 | 2 | 1,6 |
| PRIMA LED Ex 1.2ft PCc NM3h | 3 | 440 | 7 | Ni-Cd | 1,5 | 24 | 2 | 1,8 |

PRIMA LED Ex PCc with cable glands

Non-maintained emergency luminaire without autotest - cable glands M20x1,5 ATEX - stainless clips (c)

| Type | NM1h | 3F NM1h | NM3h | 3F NM3h |
|----------------------------|-------|---------|-------|---------|
| PRIMA LED Ex 1.2ft PCc ... | 63848 | x | 63849 | x |

LEGEND

- NM1h** – non-maintained emergency luminaire, operation time 1 hour
3F NM1h – non-maintained emergency luminaire, operation time 1 hour, 5-wire throughwiring (3F)
- NM3h** – non-maintained emergency luminaire, operation time 3 hours
3F NM3h – non-maintained emergency luminaire, operation time 3 hours, 5-wire throughwiring (3F)

Module signalling without autotest

| LED colour | Information |
|------------|-----------------------------|
| green | |
| flashing | battery charging |
| - | running test/emergency mode |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
b) Suspension with the use of stainless hooks



LIGHT FITTING DETAILED VIEW

PRIMA LED Ex PCc



FUTURA NM



... emergency.

USE

Non-maintained emergency luminaire for escape routes, available for use in high ambient temperature, $t_a = 50^\circ\text{C}$, is intended by its function and shape primarily for being in a set with Futura and Innova light fittings.

It is recommended for escape routes of interior industrial rooms, storage halls, sports premises, agricultural buildings and laboratories without hazard of explosion of gases, dusts and flammable vapours.

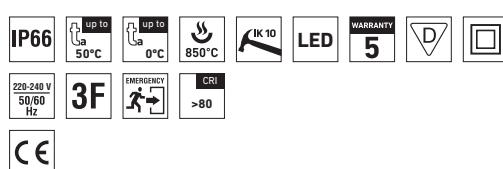
It is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have increased resistance against deformation and impact.

Atmosphere emissions must be considered, as they may reduce the usability of plastics at installation in aggressive environment, see p. 367.

ADVANTAGES

- Light fitting protection **IP66**
- High thermal resistance ranging **from $t_a = 0^\circ\text{C}$ to $t_a = 50^\circ\text{C}$** also for basic Ni-Cd battery type
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance
- Emergency module **1h or 3h**
- Optional selection of EM kit with battery autotest

- Integrated diode for indication of correct operation
- Optional selection of battery type between **Ni-Cd** or **LiFePO₄**
- Low energy consumption in StandBy mode
- Optional selection of connection between **cable gland** or **connector**
- Insulation class II



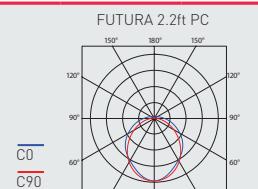
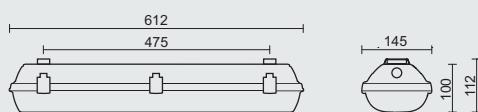
FUTURA PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: **$t_a = 50^\circ\text{C}$**
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- Maximum light fitting efficiency: 133 lm/W
- **CRI > 80: 6500 K**
- MacAdam = 3 SDCM
- Diffuser: translucent PC (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: white steel sheet (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foam-filled body groove

- Light fitting connection: **cable gland PG 13,5 / 16** or **connector**
- Distance holder: polyamide + 10 % glass fibre
- Electric equipment:
EM kit including Ni-Cd battery without autotest, LED module
EM kit including LiFePO₄ battery with autotest, LED module
- The package includes: stainless hooks and stainless brackets
- 1-year warranty for battery, 2-year warranty for EM kit (unit + LED module)
- The above stated values of power consumption and luminous flux are within a tolerance of $\pm 7,5\%$



| Type | Autonomy [hrs] | Luminous flux of light fitting [lm] | Power in emergency mode [W] | Light fitting efficiency [lm/W] | Battery type | Power in standby mode [W] | Charging time [hrs] | Power in charging mode [W] | Net weight [kg] |
|---|-------------------|---|--------------------------------------|---------------------------------------|---------------------|------------------------------------|---------------------------|-------------------------------------|-----------------------|
| Non-maintained emergency luminaire without autotest | | | | | | | | | |
| FUTURA 2.2ft PC NM1h | 1 | 440 | 4,5 | 98 | Ni-Cd | 1,5 | 24 | 9 | 1,2 |
| FUTURA 2.2ft PC NM3h | 3 | 440 | 4,5 | 98 | Ni-Cd | 1,5 | 24 | 9 | 1,4 |
| Non-maintained emergency luminaire with autotest | | | | | | | | | |
| FUTURA 2.2ft PC NM1hAt | 1 | 440 | 3,3 | 133 | LiFePO ₄ | 0,7 | 12 | 3,5 | 1,2 |
| FUTURA 2.2ft PC NM3hAt | 3 | 440 | 3,3 | 133 | LiFePO ₄ | 0,7 | 12 | 3,5 | 1,4 |

FUTURA PC with cable glands

| Type | NM1h | 3F NM1h | NM3h | 3F NM3h |
|--|--------|-----------|--------|-----------|
| FUTURA 2.2ft PC ... | 62410 | 62411 | 62413 | 62414 |
| Non-maintained emergency luminaire with autotest - cable glands PG 13,5 / 16 - plastic clips | | | | |
| Type | NM1hAt | 3F NM1hAt | NM3hAt | 3F NM3hAt |
| FUTURA 2.2ft PC ... | 62420 | 62421 | 62423 | 62424 |

FUTURA PC with cable glands

| Type | NM1h | 3F NM1h | NM3h | 3F NM3h |
|--|--------|-----------|--------|-----------|
| FUTURA 2.2ft PCc ... | 62430 | 62431 | 62433 | 62434 |
| Non-maintained emergency luminaire with autotest - cable glands PG 13,5 / 16 - stainless clips (c) | | | | |
| Type | NM1hAt | 3F NM1hAt | NM3hAt | 3F NM3hAt |
| FUTURA 2.2ft PCc ... | 62440 | 62441 | 62443 | 62444 |

LEGEND

- NM1h** – non-maintained emergency luminaire, operation time 1 hour
3F NM1h – non-maintained emergency luminaire, operation time 1 hour, 5-wire throughwiring (3F)
NM3h – non-maintained emergency luminaire, operation time 3 hours
3F NM3h – non-maintained emergency luminaire, operation time 3 hours, 5-wire throughwiring (3F)
...At – version with battery autotest

Module signalling without autotest

| LED colour | Information |
|------------|-----------------------------|
| ● green | |
| flashing | battery charging |
| - | running test/emergency mode |

Module signalling with autotest (At)

| LED colour | Information |
|------------|-----------------------------|
| ● red | |
| flashing | battery charging |
| - | defective LED module |
| - | shining |
| - | defective battery |
| - | running test/emergency mode |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks

**LIGHT FITTING DETAILED VIEW**

FUTURA PC



PRIMA NM



... emergency.

USE

Non-maintained emergency luminaire for escape routes, available for use in high ambient temperature, $t_a = 50^\circ\text{C}$, is intended by its function and shape primarily for being in a set with PRIMA and NANOTTICA light fittings.

It is recommended for escape routes of interior industrial rooms, storage halls, sports premises, agricultural buildings and laboratories without hazard of explosion of gases, dusts and flammable vapours.

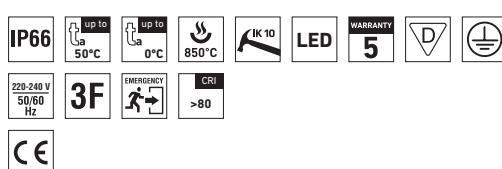
It is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have increased resistance against deformation and impact.

Atmosphere emissions must be considered, as they may reduce the usability of plastics at installation in aggressive environment, see p. 367.

ADVANTAGES

- Light fitting protection **IP66**
- High thermal resistance ranging **from $t_a = 0^\circ\text{C}$ to $t_a = 50^\circ\text{C}$** also for basic Ni-Cd battery type
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: grey polycarbonate (PC) = high mechanical resistance

- Emergency module **1h or 3h**
- Integrated diode for indication of correct operation
- Low energy consumption in StandBy mode



PRIMA PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: **$t_a = 50^\circ\text{C}$**
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- Maximum light fitting efficiency: 133 lm/W
- **CRI > 80: 6500 K**
- MacAdam = 3 SDCM
- Diffuser: translucent PC (high mechanical resistance, UV stability)
- Body: grey PC (high mechanical resistance, UV stability)
- Reflector: white steel sheet (RAL 9003)
- Clips: polyamide + 15 % glass fibre or stainless steel + polyamide
- Sealing: polyurethane (PUR), foam-filled body groove

- Light fitting connection: **cable gland PG 13,5**
- Electric equipment:
EM kit including Ni-Cd battery without autotest, LED module
EM kit including LiFePO₄ battery with autotest, LED module
- The package includes: stainless hooks and stainless brackets
- 1-year warranty for battery, 2-year warranty for EM kit (unit + LED module)
- The above stated values of power consumption and luminous flux are within a tolerance of $\pm 7,5\%$

| Type | Autonomy | Luminous flux of light fitting | Power in emergency mode | Light fitting efficiency | Battery type | Power in standby mode [W] | Charging time [hrs] | Power in charging mode [W] | Net weight [kg] |
|--|----------|--------------------------------|-------------------------|--------------------------|---------------------|---------------------------|---------------------|----------------------------|-----------------|
| | [hrs] | [lm] | [W] | [lm/W] | | | | | |
| Non-maintained emergency luminaire without autotest | | | | | | | | | |
| PRIMA 1.2ft PC NM1h | 1 | 440 | 4,5 | 98 | Ni-Cd | 1,5 | 24 | 9 | 1,2 |
| Non-maintained emergency luminaire with autotest | | | | | | | | | |
| PRIMA 1.2ft PC NM1hAt | 1 | 440 | 3,3 | 133 | LiFePO ₄ | 0,7 | 12 | 3,5 | 1,2 |

PRIMA PC with cable glands

| Type | PRIMA 1.2ft PC ... |
|------|--------------------|
| | |

Non-maintained emergency luminaire without autotest - cable glands PG 13,5 - plastic clips

| NM1h | 3F NM1h |
|--|-----------|
| 106617 | 106619 |
| Non-maintained emergency luminaire with autotest - cable glands PG 13,5 - plastic clips | |
| NM3hAt | 3F NM3hAt |
| 106618 | 106620 |

PRIMA PCc with cable glands

| Type | PRIMA 1.2ft PCc ... |
|------|---------------------|
| | |

Non-maintained emergency luminaire without autotest - cable glands PG 13,5 - stainless clips (c)

| NM1h | 3F NM1h |
|--|-----------|
| 106621 | 106623 |
| Non-maintained emergency luminaire with autotest - cable glands PG 13,5 - stainless clips (c) | |
| NM3hAt | 3F NM3hAt |
| 106622 | 106624 |

LEGEND

- NM1h** – non-maintained emergency luminaire, operation time 1 hour
3F NM1h At – non-maintained emergency luminaire, operation time 1 hour, 5-wire throughwiring (3F), version with battery autotest
NM3h – non-maintained emergency luminaire, operation time 3 hours
3F NM3hAt – non-maintained emergency luminaire, operation time 3 hours, 5-wire throughwiring (3F), version with battery autotest

Module signalling without autotest

| LED colour | Information |
|------------|-----------------------------|
| green | Information |
| flashing | battery charging |
| - | running test/emergency mode |

Module signalling with autotest (At)

| LED colour | Information |
|------------|-----------------------------|
| green | red |
| flashing | - |
| - | battery charging |
| - | flashing |
| - | defective LED module |
| - | shining |
| - | defective battery |
| - | running test/emergency mode |

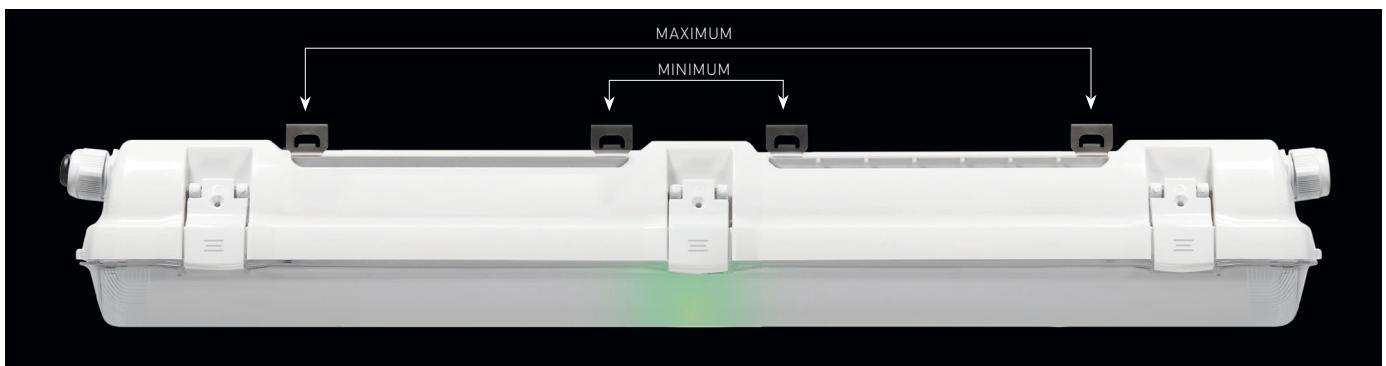
LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks
- c) Attachment with the use of side hangers to the wall



VARIABLE INSTALLATION PITCH

PRIMA NM



LIGHT FITTING DETAILED VIEW

PRIMA NM



PERUN SLIM Ex NM

NEW



... emergency and orientation.

USE

Non-maintained emergency luminaire for escape routes is intended by its function and shape primarily for being in a set with PERUN SLIM Ex light fittings.

The light fitting is suitable for the environment with a danger of explosion of gas, dust and combustible fumes. The light fittings meet the requirements of European Community Directive No.2014/34/EU.

The basic requirements for safety and health protection are secured by the verification of conformity with the standards according to EN 60079-15, EN 60079-0 and EN 60079-31.

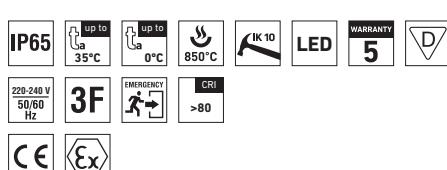
The light fitting is resistant to deformation, dust, spouting water and have increased chemical resistance.

Characteristics of the used tempered glass and its shattering power are controlled by the EN 12150-1 standard. For applications where spontaneous fracture means a higher safety risk.

ADVANTAGES

- Light fitting protection **IP65**
- High thermal resistance ranging **from $t_a = 0^\circ\text{C}$ to $t_a = 35^\circ\text{C}$** also for basic Ni-Cd battery type
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **410 lm**
- Diffuser: satinated tempered safety glass
- Body: stainless sheet
- Emergency module **3h**
- Integrated diode for indication of correct operation
- Low energy consumption in StandBy mode
- Certification: TÜV CY 23 ATEX 0206818 X

The light fitting is certified for the environment:
Ex II 3G Ex nR IIC T6 Gc
Ex II 3D Ex tc IIIC T70°C Dc



PERUN SLIM Ex NM



TECHNICAL DESCRIPTION

- Light fitting protection: **IP65**
- Maximum ambient temperature: **$t_a = 35^\circ\text{C}$**
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **410 lm**
- **CRI > 80: 6500 K**
- MacAdam = 3 SDCM
- Diffuser: satinated tempered safety glass
- Body: stainless sheet, impact-resistant, chemically resistant
- Reflector: steel sheet, white colour (RAL 9003)
- Clips: stainless
- Sealing: silicone, at light fitting body

- Cable glands: **M20x1.5 ATEX** - plastic, stainless or brass with surface treatment
- Electric equipment:
EM kit including Ni-Cd battery without autotest, LED module
- The package includes: stainless hooks and stainless brackets
- 1-year warranty for battery, 2-year warranty for EM kit (unit + LED module)
- The above stated values of power consumption and luminous flux are within a tolerance of $\pm 7,5\%$
- Pictogram: optional accessory

| Type | Autonomy [hrs] | Luminous flux of light fitting [lm] | Power in emergency mode [W] | Battery type | Power in standby mode [W] | Charging time [hrs] | Power in charging mode [W] | Net weight [kg] |
|---|-------------------|---|--------------------------------------|-----------------|------------------------------------|---------------------------|-------------------------------------|-----------------------|
| Non-maintained emergency luminaire without autotest | | | | | | | | |
| PERUN SLIM Ex 1.2ft NM3h | 3 | 410 | 7 | Ni-Cd | 1,5 | 24 | 2 | 1,8 |

PERUN SLIM Ex NM with cable glands

| Type | NM3h | 3F NM3h |
|-------------------------|--------|---------|
| PERUN SLIM Ex 1.2ft ... | 103527 | x |

LEGEND

- NM3h**
– non-maintained emergency luminaire, operation time 3 hours
- 3F NM3h**
– non-maintained emergency luminaire, operation time 3 hours, 5-wire throughwiring (3F)

Module signalling without autotest

| LED colour | Information |
|------------|-----------------------------|
| green | |
| flashing | battery charging |
| - | running test/emergency mode |

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws and stainless brackets
- b) Suspension with the use of stainless hooks



LIGHT FITTING DETAILED VIEW

PERUN SLIM Ex NM





BELTR LED NM



... emergency and orientation.

USE

The light fitting is suitable for emergency and orientation illumination of hallways, offices, warehouses.

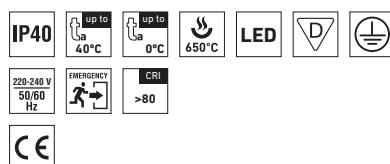
Non-maintained emergency luminaire for escape routes, available for use in high ambient temperature, $t_a = 40^\circ\text{C}$.

Atmosphere emissions must be considered, as they may reduce the usability of plastics at installation in aggressive environment, see p. 367.

ADVANTAGES

- Light fitting protection **IP40**
- High thermal resistance ranging **from $t_a = 0^\circ\text{C}$ to $t_a = 40^\circ\text{C}$** also for basic Ni-Cd battery type
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- Diffuser: translucent polycarbonate (PC) = high mechanical resistance
- Body: steel sheet, white colour (RAL 9003)
- Emergency module **1h or 3h**
- Optional selection of EM kit with battery autotest

- Integrated diode for indication of correct operation
- Optional selection of battery type between **Ni-Cd** or **LiFePO₄**
- Low energy consumption in StandBy mode



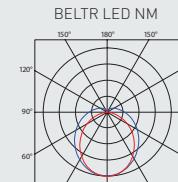
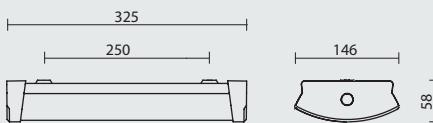
BELTR LED NM, NMAt



TECHNICAL DESCRIPTION

- Recognizing distance: 25 m
- Light fitting protection: **IP40**
- Maximum ambient temperature: **$t_a = 40^\circ\text{C}$**
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- Maximum light fitting efficiency: 135 lm/W
- **CRI > 80: 6500 K**
- MacAdam = 3 SDCM
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: steel sheet, white colour (RAL 9003)

- Cable gland: white, rubber
- Electric equipment:
EM kit including Ni-Cd battery without autotest, LED module
EM kit including LiFePO₄ battery with autotest, LED module
- 1-year warranty for battery, 2-year warranty for EM kit (unit + LED module)
- The above stated values of power consumption and luminous flux are within a tolerance of $\pm 7,5\%$
- Pictogram: optional accessory



| Type | Autonomy [hrs] | Luminous flux of light fitting [lm] | Power in emergency mode [W] | Light fitting efficiency [lm/W] | Battery type | Power in standby mode [W] | Charging time [hrs] | Power in charging mode [W] | Net weight [kg] |
|--|-------------------|---|--------------------------------------|---------------------------------------|---------------------|------------------------------------|---------------------------|-------------------------------------|-----------------------|
| Non-maintained emergency luminaire without autotest | | | | | | | | | |
| BELTR LED 2.1ft NM1h | 1 | 440 | 4,5 | 98 | Ni-Cd | 1,5 | 24 | 9 | 1,2 |
| BELTR LED 2.1ft NM3h | 3 | 440 | 4,5 | 98 | Ni-Cd | 1,5 | 24 | 9 | 1,4 |
| Non-maintained emergency luminaire with autotest | | | | | | | | | |
| BELTR LED 2.1ft NM1hAt | 1 | 440 | 3,3 | 135 | LiFePO ₄ | 0,7 | 12 | 3,5 | 1,2 |
| BELTR LED 2.1ft NM3hAt | 3 | 440 | 3,3 | 135 | LiFePO ₄ | 0,7 | 12 | 3,5 | 1,4 |

BELTR LED NM, NMAt

Non-maintained emergency luminaire without autotest

| Type | NM1h | NM3h |
|---|--------|--------|
| BELTR LED 2.1ft NM | 54510 | 54520 |
| Non-maintained emergency luminaire with autotest | | |
| Type | NM1hAt | NM3hAt |
| BELTR LED 2.1ft NMAt | 54530 | 54540 |

LEGEND

NM1h – non-maintained emergency luminaire, operation time 1 hour
NM3h – non-maintained emergency luminaire, operation time 3 hours

...At – version with battery autotest

Module signalling without autotest

| LED colour | Information |
|------------|-----------------------------|
| green | Information |
| flashing | battery charging |
| - | running test/emergency mode |

Module signalling with autotest (At)

| LED colour | Information |
|------------|-----------------------------|
| green | Information |
| red | Information |
| flashing | battery charging |
| - | defective LED module |
| - | defective battery |
| - | running test/emergency mode |

LIGHT FITTING ATTACHMENT

Directly to a ceiling or a wall with the use of screws



LIGHT FITTING DETAILED VIEW

BELTR LED NM, NMAt





HELIOS LED



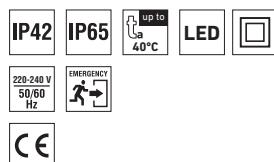
... emergency and orientation.

USE

The light fitting is suitable for emergency and orientation illumination of hallways, offices, warehouses and production shop floors.

ADVANTAGES

- Emergency module **1 hr or 3 hrs**
- High-temperature **Ni-Cd HT** battery (M1h and M3h), or LiFePO₄ battery for version with self-test (M1hAt and M3hAt)
- LED indicator of correct operation
- Electronic protection against complete battery discharge
- Possible connection for both permanent (SA) and emergency (SE) lighting
- Light fitting protection **IP42 or IP65**
- High thermal resistance ranging **from t_a = 0 °C to t_a = 40 °C** also for basic Ni-Cd battery type
- Insulation: Class 2



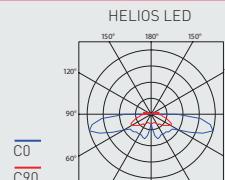
HELIOS LED



TECHNICAL DESCRIPTION

- Recognizing distance: 25 m
- Light fitting protection: IP42 or IP65
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Diffuser: opalized polycarbonate, UV stable
- Body: white polycarbonate
- Reflector: white polycarbonate
- MacAdam = 3 SDCM
- Diffuser and body connected: by screws
- Charging: M1h and M3h variants max. 24 h,

- M1hAt and M3hAt variant max. 12 h
- Electric equipment: driver, emergency module 1h or 3h; M1h and M3h variants including Ni-Cd HT battery (3,6V); M1hAt and M3hAt variants including LiFePO₄ (6,4V)
- Pictogram: optional accessory



| Code | Type | Autonomy [hrs] | Luminous flux of light fitting [lm] | Power in emergency mode [W] | Light fitting efficiency [lm/W] | Battery type | Charging time [hrs] | Net weight [kg] |
|--|---------------------------|-------------------|---|--------------------------------------|---------------------------------------|---------------------|---------------------------|-----------------------|
| Diffuser made of opalized polycarbonate - emergency standby source for both permanent (SA) and emergency (SE) lighting | | | | | | | | |
| 43518 | HELIOS LED 101 M1h | 1 | 80 | 1 | 80 | Ni-Cd HT | 24 | 1,1 |
| 43511 | HELIOS LED 102 M1h | 1 | 150 | 2 | 75 | Ni-Cd HT | 24 | 1,2 |
| 43618 | HELIOS LED IP65 101 M1h | 1 | 80 | 1 | 80 | Ni-Cd HT | 24 | 1,2 |
| 43611 | HELIOS LED IP65 102 M1h | 1 | 150 | 2 | 75 | Ni-Cd HT | 24 | 1,2 |
| 43538 | HELIOS LED 101 M3h | 3 | 80 | 1 | 80 | Ni-Cd HT | 24 | 1,2 |
| 43531 | HELIOS LED 102 M3h | 3 | 150 | 2 | 75 | Ni-Cd HT | 24 | 1,4 |
| 43638 | HELIOS LED IP65 101 M3h | 3 | 80 | 1 | 80 | Ni-Cd HT | 24 | 1,2 |
| 43631 | HELIOS LED IP65 102 M3h | 3 | 150 | 2 | 75 | Ni-Cd HT | 24 | 1,4 |
| Diffuser made of opalized polycarbonate - emergency standby source for both permanent (SA) and emergency (SE) lighting with autotest | | | | | | | | |
| 43548 | HELIOS LED 101 M1hAt | 1 | 80 | 1 | 80 | LiFePO ₄ | 12 | 1,1 |
| 43541 | HELIOS LED 102 M1hAt | 1 | 150 | 2 | 75 | LiFePO ₄ | 12 | 1,2 |
| 43648 | HELIOS LED IP65 101 M1hAt | 1 | 80 | 1 | 80 | LiFePO ₄ | 12 | 1,1 |
| 43641 | HELIOS LED IP65 102 M1hAt | 1 | 150 | 2 | 75 | LiFePO ₄ | 12 | 1,1 |
| 43568 | HELIOS LED 101 M3hAt | 3 | 80 | 1 | 80 | LiFePO ₄ | 12 | 1,1 |
| 43561 | HELIOS LED 102 M3hAt | 3 | 150 | 2 | 75 | LiFePO ₄ | 12 | 1,3 |
| 43668 | HELIOS LED IP65 101 M3hAt | 3 | 80 | 1 | 80 | LiFePO ₄ | 12 | 1,1 |
| 43661 | HELIOS LED IP65 102 M3hAt | 3 | 150 | 2 | 75 | LiFePO ₄ | 12 | 1,2 |

Example of type marking: 43638 = HELIOS LED IP65 101 **M3h**

LEGEND

- M1-3h** – emergency standby source with operation time 1–3 hours for both permanent (SA) and emergency (SE) lighting
M1-3hAt – emergency standby source with operation time 1–3 hours for both permanent (SA) and emergency (SE) lighting with autotest
 Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

Module signalling without autotest

| LED colour | Information |
|------------|-----------------------------|
| ● green | Information |
| flashing | battery charging |
| - | running test/emergency mode |

Module signalling with autotest (At)

| LED colour | Information |
|------------|-----------------------------|
| ● green | ● red |
| flashing | - |
| - | battery charging |
| - | flashing |
| - | defective LED module |
| - | shining |
| - | defective battery |
| - | running test/emergency mode |

LIGHT FITTING ATTACHMENT

Directly to a ceiling or a wall with the use of screws



LIGHT FITTING DETAILED VIEW

HELIOS LED



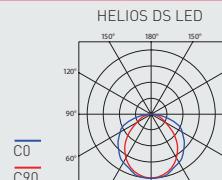
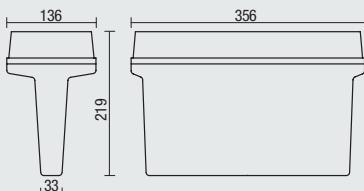
HELIOS DS LED



TECHNICAL DESCRIPTION

- Recognizing distance: 25 m
- Light fitting protection: IP42 or IP65
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Diffuser: opalized polycarbonate, UV stable
- Body: white polycarbonate
- MacAdam = 3 SDCM
- Reflector: white polycarbonate
- Diffuser and body connected: by screws
- Charging:
M1h and M3h variants max. 24 h,
M1hAt and M3hAt variant max. 12 h

- Electric equipment: driver, emergency module 1h or 3h; M1h and M3h variants including Ni-Cd HT battery (3,6V); M1hAt and M3hAt variants including LiFePO₄ (6,4V)
- Pictogram: optional accessory



| Code | Type | Autonomy [hrs] | Luminous flux of light fitting [lm] | Power in emergency mode [W] | Light fitting efficiency [lm/W] | Battery type | Charging time [hrs] | Net weight [kg] |
|--|------------------------------|-------------------|---|--------------------------------------|---------------------------------------|---------------------|---------------------------|-----------------------|
| Diffuser made of opalized polycarbonate - emergency standby source for both permanent (SA) and emergency (SE) lighting | | | | | | | | |
| 43718 | HELIOS DS LED 101 M1h | 1 | 80 | 1 | 80 | Ni-Cd HT | 24 | 1,3 |
| 43711 | HELIOS DS LED 102 M1h | 1 | 150 | 2 | 75 | Ni-Cd HT | 24 | 1,4 |
| 43818 | HELIOS DS LED IP65 101 M1h | 1 | 80 | 1 | 80 | Ni-Cd HT | 24 | 1,4 |
| 43811 | HELIOS DS LED IP65 102 M1h | 1 | 150 | 2 | 75 | Ni-Cd HT | 24 | 1,4 |
| 43738 | HELIOS DS LED 101 M3h | 3 | 80 | 1 | 80 | Ni-Cd HT | 24 | 1,4 |
| 43731 | HELIOS DS LED 102 M3h | 3 | 150 | 2 | 75 | Ni-Cd HT | 24 | 1,6 |
| 43838 | HELIOS DS LED IP65 101 M3h | 3 | 80 | 1 | 80 | Ni-Cd HT | 24 | 1,4 |
| 43831 | HELIOS DS LED IP65 102 M3h | 3 | 150 | 2 | 75 | Ni-Cd HT | 24 | 1,6 |
| Diffuser made of opalized polycarbonate - emergency standby source for both permanent (SA) and emergency (SE) lighting with autotest | | | | | | | | |
| 43748 | HELIOS DS LED 101 M1hAt | 1 | 80 | 1 | 80 | LiFePO ₄ | 12 | 1,3 |
| 43741 | HELIOS DS LED 102 M1hAt | 1 | 150 | 2 | 75 | LiFePO ₄ | 12 | 1,4 |
| 43848 | HELIOS DS LED IP65 101 M1hAt | 1 | 80 | 1 | 80 | LiFePO ₄ | 12 | 1,3 |
| 43841 | HELIOS DS LED IP65 102 M1hAt | 1 | 150 | 2 | 75 | LiFePO ₄ | 12 | 1,3 |
| 43768 | HELIOS DS LED 101 M3hAt | 3 | 80 | 1 | 80 | LiFePO ₄ | 12 | 1,3 |
| 43761 | HELIOS DS LED 102 M3hAt | 3 | 150 | 2 | 75 | LiFePO ₄ | 12 | 1,5 |
| 43868 | HELIOS DS LED IP65 101 M3hAt | 3 | 80 | 1 | 80 | LiFePO ₄ | 12 | 1,3 |
| 43861 | HELIOS DS LED IP65 102 M3hAt | 3 | 150 | 2 | 75 | LiFePO ₄ | 12 | 1,4 |

Example of type marking: 43838 = HELIOS DS LED IP65 101 **M3h**

LEGEND

- M1-3h** – emergency standby source with operation time 1–3 hours for both permanent (SA) and emergency (SE) lighting
M1-3hAt – emergency standby source with operation time 1–3 hours for both permanent (SA) and emergency (SE) lighting with autotest
 Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

Module signalling without autotest

| LED colour | Information |
|------------|-----------------------------|
| ● green | Information |
| flashing | battery charging |
| - | running test/emergency mode |

Module signalling with autotest (At)

| LED colour | Information |
|------------|-----------------------------|
| ● green | ● red |
| flashing | - |
| - | battery charging |
| - | flashing |
| - | defective LED module |
| - | shining |
| - | defective battery |
| - | running test/emergency mode |

LIGHT FITTING ATTACHMENT

Directly to a ceiling or a wall with the use of screws



LIGHT FITTING DETAILED VIEW

HELIOS DS LED



PLEXI LED



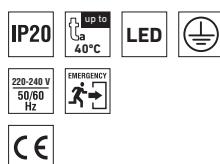
... emergency and orientation, into lower ceilings.

USE

The light fitting is suitable for emergency illumination of hallways and offices. It is intended for installation into plasterboard lower ceilings.

ADVANTAGES

- Emergency module **1 hr or 3 hrs**
- High-temperature **Ni-Cd HT** battery (M1h and M3h), or LiFePO₄ battery for version with self-test (M1hAt and M3hAt)
- LED indicator of correct operation
- Electronic protection against complete battery discharge
- Possible connection for both permanent (SA) and emergency (SE) lighting
- Light fitting protection **IP20**
- High thermal resistance ranging **from t_a = 0 °C to t_a = 40 °C** also for basic Ni-Cd battery type
- Insulation: Class 1

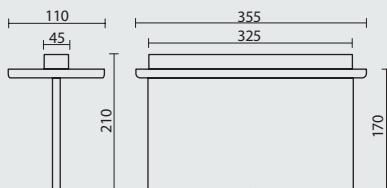


PLEXI LED



TECHNICAL DESCRIPTION

- Recognizing distance: 30 m
- Light fitting protection: IP20
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Diffuser: transparent plexi glass, UV stable
- Body: steel sheet, silver (RAL 9006)
- MacAdam = 3 SDCM
- Charging:
 - M1h and M3h variants max. 24 h,
 - M1hAt and M3hAt variant max. 12 h
- Electric equipment: driver, emergency module 1h or 3h; M1h and M3h variants including Ni-Cd HT battery (3,6V); M1hAt and M3hAt variants including LiFePO₄ (6,4V)
- Pictogram: optional accessory



| Code | Type | Autonomy [hrs] | Power in emergency mode [W] | Battery type | Charging time [hrs] | Net weight [kg] |
|---|---------------------|-------------------|--------------------------------------|---------------------|---------------------------|-----------------------|
| Diffuser made of transparent plexi glass - emergency standby source for emergency (SE) lighting | | | | | | |
| 41519 | PLEXI LED 101 NM1h | 1 | 1 | Ni-Cd HT | 24 | 2,1 |
| 41539 | PLEXI LED 101 NM3h | 3 | 1 | Ni-Cd HT | 24 | 2,2 |
| Diffuser made of transparent plexi glass - emergency standby source for both permanent (SA) and emergency (SE) lighting | | | | | | |
| 41518 | PLEXI LED 101 M1h | 1 | 1 | Ni-Cd HT | 24 | 2,0 |
| 41538 | PLEXI LED 101 M3h | 3 | 1 | Ni-Cd HT | 24 | 2,1 |
| Diffuser made of transparent plexi glass - emergency standby source for both permanent (SA) and emergency (SE) lighting with autotest | | | | | | |
| 41548 | PLEXI LED 101 M1hAt | 1 | 1 | LiFePO ₄ | 12 | 2,0 |
| 41568 | PLEXI LED 101 M3hAt | 3 | 1 | LiFePO ₄ | 12 | 2,1 |
| Diffuser made of transparent plexi glass - driver for central battery supply AC/DC (CB = central battery) | | | | | | |
| 41578 | PLEXI LED 101 CB | - | 1 | - | - | 2,1 |

Example of type marking: 41538 = PLEXI LED **M3h**

LEGEND

- M1-3h** – emergency back-up source with operating time of 1 - 3 hours (SA) for both permanent and emergency illumination
M1-3hAt – emergency back-up source with operating time of 1 - 3 hours (SA) for both permanent and emergency illumination with autotest
NM1-3h – emergency back-up source with operating time of 1 - 3 hours (SE) for emergency (non-maintained) illumination
CB – for central battery power supply AC/DC (CB = central battery)

Batteries must be formatted before their putting into operation. Assembly instructions must be observed at installation.

Module signalling without autotest

| LED colour | Information |
|------------|-----------------------------|
| ● green | |
| flashing | battery charging |
| - | running test/emergency mode |

Module signalling with autotest (At)

| LED colour | Information |
|------------|-----------------------------|
| ● green | ● red |
| flashing | - |
| - | battery charging |
| - | flashing |
| - | defective LED module |
| - | shining |
| - | defective battery |
| - | - |
| - | running test/emergency mode |

LIGHT FITTING ATTACHMENT

Recessed into plasterboard lower ceilings

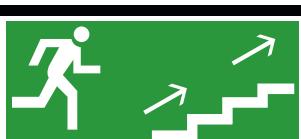


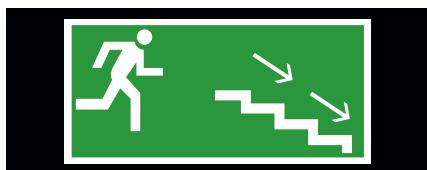
LIGHT FITTING DETAILED VIEW

PLEXI LED

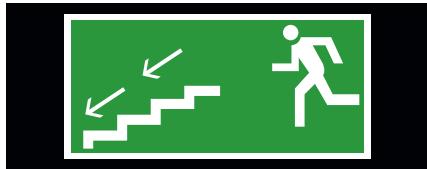


Stickers with pictograms for emergency light fittings

|  | Code | Type | Description | Dimensions [mm] |
|---|-----------------|------|---|-----------------|
| 43901 | Pictogram 01 HE | | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41901 | Pictogram 01 PL | | for PLEXI type - 30 m distance | 150 x 300 |
|  | Code | Type | Description | Dimensions [mm] |
| 43902 | Pictogram 02 HE | | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41902 | Pictogram 02 PL | | for PLEXI type - 30 m distance | 150 x 300 |
|  | Code | Type | Description | Dimensions [mm] |
| 43904 | Pictogram 04 HE | | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41904 | Pictogram 04 PL | | for PLEXI type - 30 m distance | 150 x 300 |
|  | Code | Type | Description | Dimensions [mm] |
| 43905 | Pictogram 05 HE | | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41905 | Pictogram 05 PL | | for PLEXI type - 30 m distance | 150 x 300 |
|  | Code | Type | Description | Dimensions [mm] |
| 43906 | Pictogram 06 HE | | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41906 | Pictogram 06 PL | | for PLEXI type - 30 m distance | 150 x 300 |
|  | Code | Type | Description | Dimensions [mm] |
| 43907 | Pictogram 07 HE | | for HELIOS and BELTR LED NM types e - 25 m distance | 125 x 250 |
| 41907 | Pictogram 07 PL | | for PLEXI type - 30 m distance | 150 x 300 |
|  | Code | Type | Description | Dimensions [mm] |
| 43908 | Pictogram 08 HE | | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41908 | Pictogram 08 PL | | for PLEXI type - 30 m distance | 150 x 300 |
|  | Code | Type | Description | Dimensions [mm] |
| 43909 | Pictogram 09 HE | | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41909 | Pictogram 09 PL | | for PLEXI type - 30 m distance | 150 x 300 |
|  | Code | Type | Description | Dimensions [mm] |
| 43910 | Pictogram 10 HE | | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41910 | Pictogram 10 PL | | for PLEXI type - 30 m distance | 150 x 300 |
|  | Code | Type | Description | Dimensions [mm] |
| 43911 | Pictogram 11 HE | | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41911 | Pictogram 11 PL | | for PLEXI type - 30 m distance | 150 x 300 |



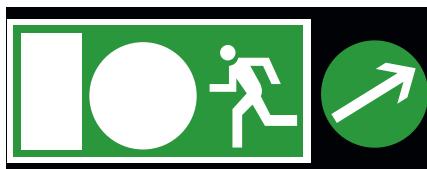
| Code | Type | Description | Dimensions [mm] |
|-------|-----------------|---|-----------------|
| 43912 | Pictogram 12 HE | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41912 | Pictogram 12 PL | for PLEXI type - 30 m distance | 150 x 300 |



| Code | Type | Description | Dimensions [mm] |
|-------|-----------------|---|-----------------|
| 43913 | Pictogram 13 HE | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41913 | Pictogram 13 PL | for PLEXI type - 30 m distance | 150 x 300 |

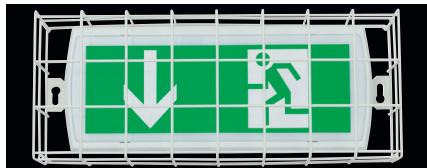


| Code | Type | Description | Dimensions [mm] |
|-------|-----------------|---|-----------------|
| 43914 | Pictogram 14 HE | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41914 | Pictogram 14 PL | for PLEXI type - 30 m distance | 150 x 300 |
| 42914 | Pictogram 14 TG | for PRIMA LED Ex NM type - 20 m distance | 100 x 300 |



| Code | Type | Description | Dimensions [mm] |
|-------|-----------------|---|-----------------|
| 43915 | Pictogram 15 HE | for HELIOS and BELTR LED NM types - 25 m distance | 125 x 250 |
| 41915 | Pictogram 15 PL | for PLEXI type - 30 m distance | 150 x 300 |
| 42915 | Pictogram 15 TG | for PRIMA LED Ex NM type - 20 m distance | 100 x 300 |

Protective grid



| Code | Type | Description | Weight [kg] |
|-------|-----------|----------------------------------|-------------|
| 43900 | OM-HE, TG | protective grid for HELIOS types | 0.4 |

LIGHTING MANAGEMENT



MANAGEMENT
FOR SIMPLE AND LARGE
LIGHTING SYSTEMS



LIGHTING MANAGEMENT

This innovative system brings a new trend in lighting control. It expands the existing advantages of LED technology by allowing easy control and creation of a variety of lighting scenes. The system is designed for simple as well as complex lighting solutions for offices, corridors and halls. The systems make it possible to regulate lighting based on daylight level, occupancy as well as tunable white and RGB requirements.

DALIeco

Our DALIeco system is designed for simple installations.

Designed for:

- offices
- showrooms
- conference rooms
- corridors
- school classrooms



DALIeco CONTROL

Advantages:

- unit features two DALI circuits (a total of 16 fixtures may be connected to each DALI circuit)
- up to 4 light sensors may be connected
- controlled by a regular button, or an IR remote control
- small dimensions (suitable to be placed in light fixtures)
- the Touch DIM function substituted in problematic installations
- predefined operating modes ensure simplified switch-on process
- the corridor function may be set

Components for DALIeco:

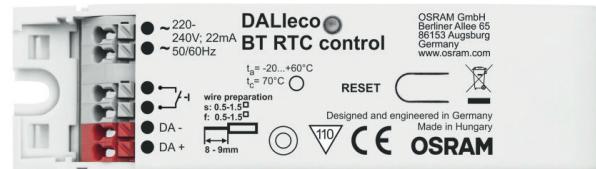
| DALIeco LS/PD LI | User Remote | DALIeco REMOTE |
|--|---|---|
| <ul style="list-style-type: none"> • regulation of lighting based on daylight level and occupancy • recessed and surface-mounted installation possible  | <ul style="list-style-type: none"> • infra-red remote control • 4 lighting scenes may be saved and recalled • up to 15 independently controlled systems due to adaptable IR coding  | <ul style="list-style-type: none"> • configuration and switching on of lighting management systems by a remote control  |

DALIeco BT RTC

Our DALIeco BT RTC system is designed for simple installati

Designed for:

- offices
- showrooms
- corridors
- training rooms



DALIeco BT RTC

Advantages:

- up to 32 fixtures may be controlled
- tunable white fully supported (device type 8)
- in-built clock for time plans + human centric lighting with up to 24 points
- controlled by a mobile phone or a regular button
- up to 4 separately controlled groups – lighting scenes created easily using an app (Android or iOS)
- small dimensions (suitable to be placed in light fixtures)
- up to 4 sensors and 4 buttons

Components for DALIeco BT RTC:

DALIeco LS/PD CI G2

- regulation of lighting based on daylight level and occupancy
- recessed and surface-mounted installation possible



DALI PRO PB Coupler

- 4 independent push-button inputs
- standard buttons and switches may be used



basicDIM Wireless

Our basicDIM Wireless system is designed for simple installations as well as for medium-size installations where lighting regulation is required but the existing cabling must be retained.

Designed for:

- offices
- showrooms
- conference rooms
- restaurants

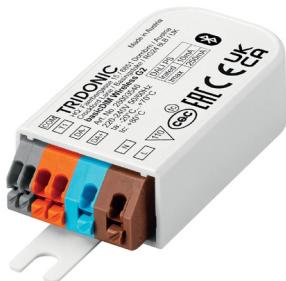
Advantages:

- automatic creation of wireless communication with up to 250 units
- may be controlled/set by a mobile app
- wireless connection of light fixtures using an app
- no external gateway required for communication
- firmware easily updated

Components for basicDIM Wireless:

basicDIM Wireless Module G2

- when placed in a fixture, the fixture becomes wireless



basicDIM Wireless Sensor 5DP 38rc

- regulation of lighting based on daylight level and occupancy
- power supply
- parts and accessories that correspond to installation type (surface-mounted, recessed)
- covers to limit motion detection
- perfect for installation height not exceeding 4 m



basicDIM Wireless User Interface

- battery-powered wall-mounted control panel
- 4 lighting scenes may be saved and recalled
- dimming and CCT adjustment possible



sceneCOM S

Our sceneCOM S system is suitable for a majority of installations.

Designed for:

- offices
- restaurants
- assembly and production halls
- warehouses
- shop floors

Advantages:

- up to 64 fixtures may be controlled
- certified as a DALI-2 device
- small dimensions (may be placed under a wall-mounted switch)
- simple addressing using a mobile app
- time plans may be set
- tunable white fully supported (device type 8)
- up to 16 groups may be created and up to 16 scenes may be saved
- 4 independent inputs for buttons
- power supply ensured by DALI



sceneCOM S Controller

Components for sceneCOM S:

DALI XC G3 CWM 30 DA2

- 4 independent programmable inputs
- to be installed under a wall-mounted switch



DALI PS3

- DALI-2 (70 mA) power supply
- small dimensions

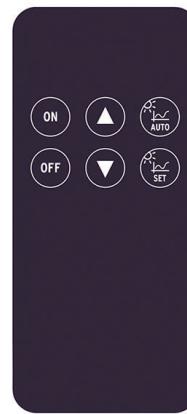


MSensor G3 PIR 10DPI WH

- monitoring of the surrounding areas and motion detection
- parts and accessories that correspond to installation type (surface-mounted, recessed)
- designed for installation height up to 5, 10 or 16 m depending on sensor type

**REMOTECONTROL IR6**

- infra-red remote control

**DALI PROFESSIONAL**

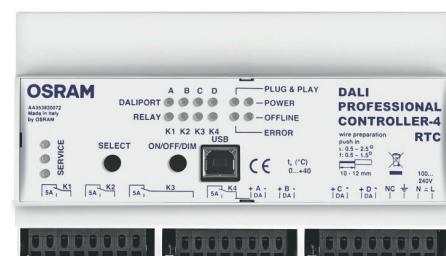
Our DALI PROFESSIONAL system is primarily intended for large installations.

Designed for:

- offices
- restaurants
- assembly and production halls
- warehouses
- shop floors

Advantages:

- 4 DALI circuits – each circuit allows up to 64 fixtures to be controlled
- 16 groups may be created and 16 scenes may be saved in each DALI circuit.
- 4 programmable relays (4x5 A) integrated in the controller
- integrated clock to manage events
- weekly planning possible
- may easily be mounted on a DIN rail
- plug-and-play configuration for instant use without setting



DALI PRO CONT-4-RTC

Components for DALI PROFESSIONAL:**DALI PRO COUPLER**

- 4 independent programmable inputs
- standard buttons and switches may be used

**DALI HIGH BAY ADAPTER**

- integrated lighting control sensor
- regulation of lighting for installation heights up to 13 m
- direct connection to DALI

**HIGH BAY**

- energy savings up to 35 % (compared to manual switching)
- motion sensor with a switch contact (adjustable power-off delay: 10 s, 1 min, 20 min, 40 min, 1 h, 2 h, 4 h, 8 h)





ORIENTATIONAL CHART OF ARRANGEMENT OF EMERGENCY LIGHT FITTINGS

| | | NANOTTICA | | | | | FUTURA | | | | |
|-------------------------|-----|------------|------|------|-----|--|------------|------|------|------|-----|
| Installation height [m] | | | | | | | | | | | |
| 2,0 | 3,5 | 8,5 | 8,9 | 9,2 | 3,8 | | 4,1 | 9,3 | 9,0 | 8,6 | 3,7 |
| 2,5 | 3,9 | 9,4 | 9,9 | 10,3 | 4,3 | | 4,3 | 11,2 | 10,8 | 10,3 | 4,1 |
| 3,0 | 4,3 | 10,3 | 10,8 | 11,2 | 4,7 | | 4,6 | 12,0 | 11,5 | 11,1 | 4,3 |
| 3,5 | 4,6 | 11,1 | 11,6 | 12,0 | 5,0 | | 4,8 | 12,6 | 12,1 | 11,7 | 4,5 |
| 4,0 | 4,8 | 11,9 | 12,4 | 12,8 | 5,1 | | 4,9 | 13,1 | 12,7 | 12,2 | 4,7 |
| 5,0 | 5,0 | 13,2 | 13,6 | 14,1 | 5,4 | | 5,2 | 13,7 | 13,1 | 12,7 | 4,9 |
| 6,0 | 5,2 | 13,8 | 14,3 | 14,8 | 5,4 | | 5,3 | 14,0 | 13,5 | 13,2 | 5,1 |
| | | PRIMA LED | | | | | ALUMAX LED | | | | |
| Installation height [m] | | | | | | | | | | | |
| 2,0 | 4,1 | 9,6 | 8,8 | 8,0 | 3,5 | | 3,1 | 6,7 | 7,3 | 7,7 | 3,4 |
| 2,5 | 4,5 | 11,4 | 10,5 | 9,6 | 3,9 | | 3,4 | 8,3 | 9,0 | 9,4 | 4,0 |
| 3,0 | 4,6 | 12,2 | 11,3 | 10,3 | 4,1 | | 3,7 | 9,1 | 9,8 | 10,3 | 4,3 |
| 3,5 | 4,8 | 12,8 | 11,9 | 11,0 | 4,3 | | 4,0 | 9,8 | 10,5 | 11,2 | 4,6 |
| 4,0 | 4,9 | 13,3 | 12,4 | 11,5 | 4,4 | | 4,1 | 10,4 | 11,2 | 11,9 | 4,7 |
| 5,0 | 5,2 | 13,7 | 13,0 | 12,3 | 4,6 | | 4,6 | 11,2 | 12,1 | 12,8 | 5,2 |
| 6,0 | 5,4 | 14,1 | 13,3 | 12,8 | 4,8 | | 4,8 | 12,1 | 13,1 | 13,7 | 5,4 |
| | | PERUN SLIM | | | | | CANOPUS | | | | |
| Installation height [m] | | | | | | | | | | | |
| 2,0 | 3,6 | 8,1 | 8,3 | 8,6 | 3,7 | | 3,0 | 5,9 | 7,1 | 8,0 | 4,1 |
| 2,5 | 4,0 | 9,8 | 10,1 | 10,3 | 4,1 | | 3,3 | 7,4 | 8,8 | 10,0 | 4,5 |
| 3,0 | 4,3 | 10,6 | 10,9 | 11,1 | 4,4 | | 3,7 | 8,8 | 10,3 | 11,9 | 4,8 |
| 3,5 | 4,5 | 11,4 | 11,6 | 11,8 | 4,6 | | 3,9 | 9,6 | 11,1 | 12,7 | 5,0 |
| 4,0 | 4,6 | 12,0 | 12,2 | 12,4 | 4,7 | | 4,1 | 10,2 | 11,8 | 13,4 | 5,3 |
| 5,0 | 4,9 | 12,6 | 12,7 | 13,1 | 5,0 | | 4,6 | 11,3 | 12,9 | 14,6 | 5,7 |
| 6,0 | 5,1 | 13,2 | 13,3 | 13,7 | 5,2 | | 4,7 | 12,2 | 13,8 | 15,5 | 5,9 |
| | | NAOS MPR | | | | | NAOS | | | | |
| Installation height [m] | | | | | | | | | | | |
| 2,0 | 3,2 | 7,4 | 7,4 | 7,5 | 3,2 | | 3,3 | 8,4 | 8,5 | 8,6 | 3,4 |
| 2,5 | 3,4 | 8,7 | 8,6 | 8,5 | 3,5 | | 3,7 | 9,2 | 9,3 | 9,4 | 3,7 |
| 3,0 | 3,8 | 9,3 | 9,2 | 9,2 | 3,8 | | 3,8 | 10,0 | 10,0 | 10,0 | 3,8 |
| 3,5 | 4,1 | 9,9 | 10,0 | 10,0 | 4,1 | | 4,0 | 10,4 | 10,5 | 10,6 | 4,0 |
| 4,0 | 4,3 | 10,5 | 10,6 | 10,7 | 4,2 | | 4,1 | 10,9 | 10,9 | 11,0 | 4,1 |

ORIENTATIONAL CHART OF ARRANGEMENT OF EMERGENCY LIGHT FITTINGS

| | | LINEA Square | | | | | LINEA Round | | | | | |
|-------------------------|-----|---|---|---|---|---|--|---|---|---|---|-----|
| Installation height [m] | |  |  |  |  |  |  |  |  |  |  | |
| 2,0 | 3,8 | | 9,5 | 9,5 | 9,5 | 3,8 | | 3,8 | 9,5 | 9,5 | 9,5 | |
| 2,0 | 4,2 | | 10,4 | 10,4 | 10,4 | 4,2 | | 4,0 | 10,4 | 10,4 | 4,0 | |
| 3,0 | 4,3 | | 11,2 | 11,1 | 11,1 | 4,3 | | 4,3 | 11,1 | 11,1 | 4,3 | |
| 3,0 | 4,5 | | 11,8 | 11,8 | 11,7 | 4,5 | | 4,5 | 11,7 | 11,7 | 4,5 | |
| 4,0 | 4,6 | | 12,3 | 12,3 | 12,3 | 4,6 | | 4,6 | 12,2 | 12,2 | 4,6 | |
| LINEA | | | | | | | | | | | | |
| Installation height [m] | |  |  |  |  |  |  |  |  |  |  | |
| 2,0 | 3,4 | | 9,0 | 8,4 | 7,7 | 3,0 | | | | | | |
| 2,5 | 3,7 | | 9,7 | 9,0 | 8,3 | 3,3 | | | | | | |
| 3,0 | 3,8 | | 10,2 | 9,6 | 8,9 | 3,3 | | | | | | |
| 3,5 | 3,8 | | 10,7 | 10,0 | 9,3 | 3,3 | | | | | | |
| 4,0 | 3,8 | | 10,9 | 10,2 | 9,5 | 3,4 | | | | | | |
| BELTR LED | | | | | | | | | | | | |
| Installation height [m] | |  |  |  |  |  |  |  |  |  |  | |
| 2,0 | 3,4 | | 8,5 | 8,3 | 7,8 | 3,2 | | 4,0 | 9,8 | 8,7 | 7,7 | 3,2 |
| 2,5 | 3,7 | | 9,3 | 9,1 | 8,7 | 3,4 | | 4,2 | 10,6 | 9,6 | 8,5 | 3,5 |
| 3,0 | 3,8 | | 10,0 | 9,8 | 9,3 | 3,7 | | 4,5 | 11,4 | 10,3 | 9,3 | 3,8 |
| 3,5 | 4,0 | | 10,5 | 10,3 | 9,8 | 3,7 | | 4,7 | 12,0 | 11,0 | 10,0 | 4,0 |
| 4,0 | 4,1 | | 11,0 | 10,8 | 10,3 | 3,8 | | 4,8 | 12,5 | 11,5 | 10,5 | 4,2 |

The table of distances is based on the following parameters:

- Maintenance factor: 0.80
- Emergency lighting factor: 1.00
- Minimum illuminance in axis: 1 lx
- Minimum illuminance at half-width of escape route: 0.50 lx
- Evenness in axis max. 40 : 1
- Escape route width: 2.00 m

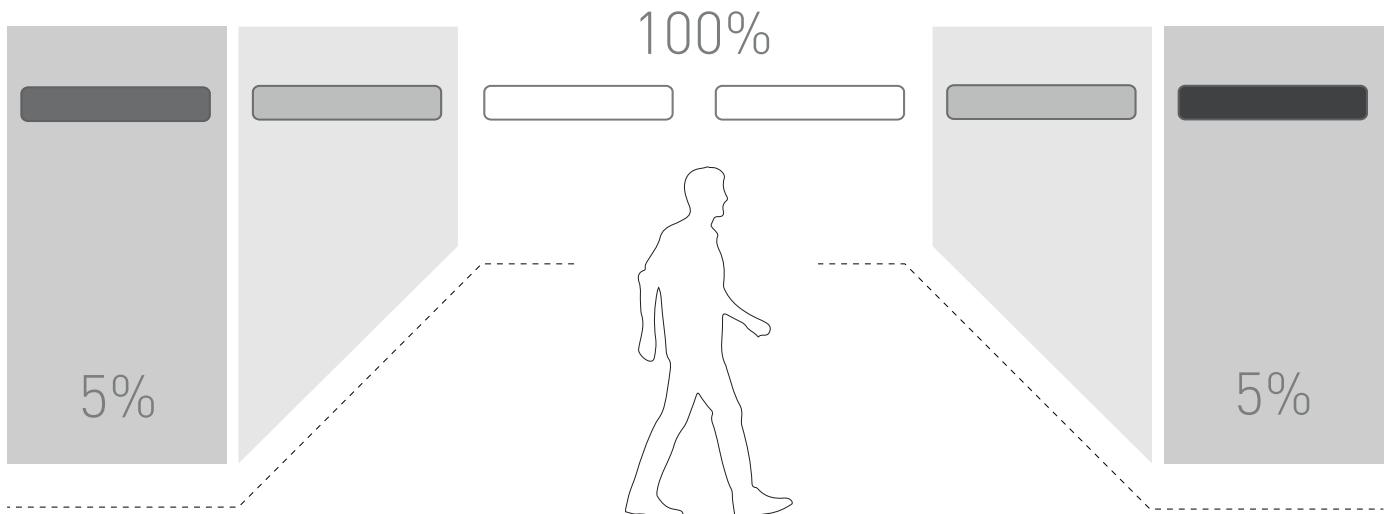
CORRIDOR FUNCTION



Corridor function refers to controlling lighting based on whether motion has been detected.

This is achieved by connecting a regular motion detector to the ballast (with a relay, no triak). Combining the use of such a sensor and the function of the ballast makes it

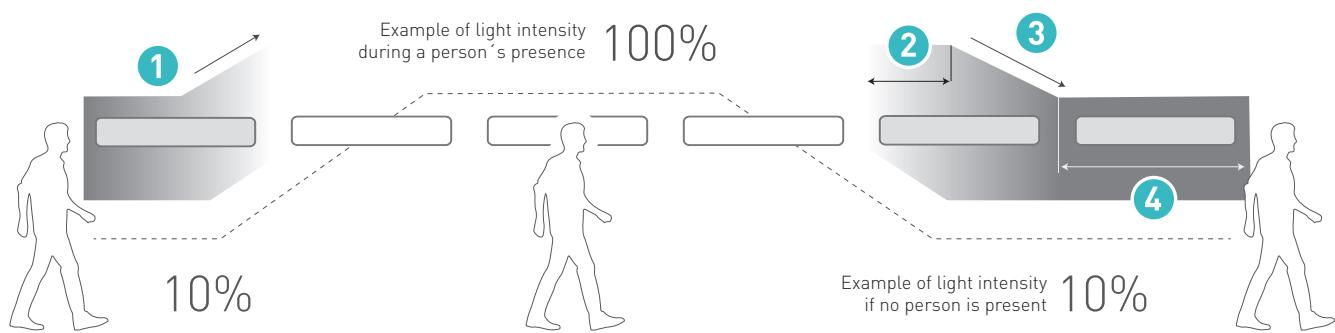
possible to control a single fixture or an entire set of luminaires. Light intensity increases when a person enters the room. When the person has left, the motion detector is set to turn off with a delay, resulting in an automatic reduction of light intensity.



Corridor function is a perfect choice for spaces that require permanent illumination due to security reasons. These include e.g. public buildings, extensive residential complexes, parking houses and lots, pedestrian underpasses and underground railway stations. Light intensity in such spaces is normally low but increases if more light is required.

LED drivers feature a variety of profiles, allowing them to provide the best output under a range of conditions. It is necessary to have the LED driver programmed in order to set the corridor function. Alternatively, a lighting control system may be used to change the parameters.

Profiles are defined by a variety of values (corridor mode):



1. Attack time: time that starts to run once occupancy has been detected. Light intensity increases during this period of time until it reaches the occupancy value (default 0,7s to 100%).
2. Start time: time that starts to run once occupancy is no longer detected (120s). If a person occupying the space is detected during this period of time, start time is reset and starts to run again from zero. If no occupancy is detected during attack time, reduction time will be triggered.
3. Reduction time: period of time during which light intensity is reduced from occupancy value to non-occupancy value (default 32s from 100% to 10%).
4. Turn-off delay time: period of time for which non-occupancy value is maintained. Turn-off delay time may vary based on the profile selected or it may remain undefined (never turns off).
5. Non-occupancy value: light intensity when no person occupies the space (default 10%).
6. Occupancy value: light intensity when one or more persons occupy the space (default 100%).

A user may choose to opt for a digital signal controller (DSI or DALI) anytime without having to replace the luminaire or provide additional control lines.

MERRYTEK MC030S E occupancy sensor: a settings example

It is possible to set sensor data precisely for every application by selecting a combination of DIP switch variables.

DIP Switch settings

Recognition area (sensitivity)

| | 1 | 2 | 3 | |
|-----|----|----|----|------|
| I | ON | ON | ON | 100% |
| II | - | ON | ON | 75% |
| III | ON | - | ON | 50% |
| IV | - | - | ON | 25% |
| V | - | - | ON | 25% |

Activation time

| | 7 | 8 | 9 | |
|-----|----|----|----|--------|
| | 4 | 5 | 6 | |
| I | ON | ON | ON | 5s |
| II | - | ON | ON | 30s |
| III | ON | - | ON | 90s |
| IV | - | - | ON | 3 min |
| V | ON | ON | - | 20 min |
| VI | - | - | - | 30 min |

Daylight threshold

| | 7 | 8 | 9 | |
|-----|----|----|----|-----------|
| I | ON | ON | ON | 2 Lux |
| II | ON | ON | - | 10 Lux |
| III | - | ON | - | 25 Lux |
| IV | ON | - | - | 50 Lux |
| V | - | - | - | *Disabled |

*Disabled means daylight sensor is out of order. Once motion has been detected, the switch turns on the fixture regardless of the light intensity of the surroundings.

| Source colour rendering correct choice | | Warm white | | | | | White | | | | Daylight | | | | Horticul- tural 54 2A |
|---|----|---------------------|-----|-----|-----|-----|-------|----|-----|-----|----------|-----|-----|-----|--------------------------------|
| | | Shot light 79 | 29 | 827 | 927 | 830 | 930 | 25 | 33 | 840 | 940 | 950 | 865 | 965 | |
| Light colour | 79 | 29 | 827 | 927 | 830 | 930 | 25 | 33 | 840 | 940 | 950 | 865 | 965 | 54 | Horticul- tural 54 2A |
| CIE division | 3 | 1B | 1A | 1B | 1A | 2A | 2B | 1B | 1A | 1A | 1A | 1B | 1A | 2A | |
| Shop - foodstuff | | | | | | | | | ● | | | | | | |
| Shop - meat | ● | | | | | | | | ● | | | | | | |
| Shop - textiles, leather | | | | ● | | ● | | | | ● | | | | | |
| Hairdressers', beauty salons | | | | ● | | ● | | | | ● | | | | | |
| Workshops, mechanics | | | | | | | | | ● | | | ● | | | |
| Printing | | | | | | | | | | ● | ● | | | ● | |
| Warehouses | | | | | | | | | ● | | | | | | |
| Paintshops | | | | | | | | | ● | | | ● | | | |
| Colour testing | | | | | | | | | | | ● | | | ● | |
| Growing of plants | | | | | | | | | | | | | | ● | |
| Households, restaurants | | ● | ● | | | | | | | | | | | | |
| Offices, school rooms | | | | ● | | | | | ● | | | | | | |
| Museums | | | | | | ● | | | | ● | | | | | |
| Hospital rooms | | | | ● | | | ● | | | | | | | | |
| Consulting rooms | | | | | | | | | | ● | | | | | |
| Sporting facilities | | | | | ● | | | | ● | | | | | | |
| Outdoor illumination | | ● | | | | | | ● | | | | | | ● | |

● Recommended ■ Permissible

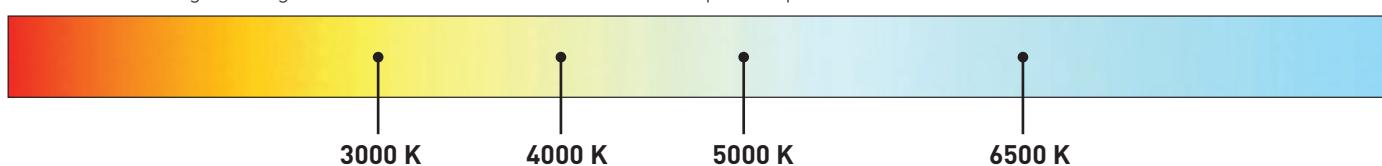
CRI - COLOUR RENDERING INDEX

It determines the colour sensation accuracy at other than daily lighting. It is given at the scale from 0 to 100; the higher the value, the better. The standard colour rendering index of TREVOS LED light fittings is 80, or 90 upon request.

CCT - CHROMATICITY TEMPERATURE

It determines the colour spectrum of the light (it is given in Kelvin - K).

The optimal lighting values are perceived as white light - about 5.000 - 7.000 K (5.000 K - common daylight); higher values are perceived as a light with blue shade, while lower values as a light with yellow to red shade. The standard chromaticity temperature of TREVOS LED light fittings is 4.000 K, or 3.000, 5.000 or 6.500 K up on request.



CHEMICAL RESISTANCE OF SELECTED MATERIALS

| Environment | Maximum concentration | Polycarbonate/PC | | | Acrylate/AC (SAN, PMMA) | | | ABS | | | Aluminium/Al | | | Polyamide (PA6/66) | | | INOX AISI 304 | | |
|--|-----------------------|------------------|-----------|----|-------------------------|-----------|----|------------|-----------|----|--------------|-----------|----|--------------------|-----------|----|---------------|-----------|----|
| | | Resistance | | | Resistance | | | Resistance | | | Resistance | | | Resistance | | | Resistance | | |
| | | yes | partially | no | yes | partially | no | yes | partially | no | yes | partially | no | yes | partially | no | yes | partially | no |
| Aceton [ketones] | | ● | | ● | ● | | ● | ● | | ● | ● | | ● | ● | | ● | ● | ● | |
| Aniline | | | ● | | | | | | | | | | | | | | ● | | |
| Ammonia | 5% | | | | ● | | | | | | | | | | | | ● | | ● |
| Benzaldehyde | | | | | | | | | | | | | | | | | ● | | ● |
| Benzene | | | | ● | | | | | | | | | | | | | ● | | ● |
| Diethylether [ethers] | | | | ● | | | | | | | | | | | | | ● | | ● |
| Potassium nitrate | 40% | ● | | | ● | | | ● | | | ● | | | ● | | | ● | | ● |
| Ethanol [alcohols] | 50% | ● | | | ● | | | ● | | | ● | | | ● | | | ● | | ● |
| Ethylacetate [esters] | | | | | | | | | | | | | | | | | | | |
| Ethyl alcohol | | ● | | | | | | | | | | | | | | | | | |
| Phenol | | | | | | | | | | | | | | | | | | | |
| Glycerine | | | ● | | | | | | | | | | | | | | | | |
| Heptane | | | | | | | | | | | | | | | | | | | |
| Ammonium hydroxide | 25% | | | | ● | | | | | | | | | | | | ● | | |
| Sodium hydroxide - base | 60% | | | | ● | | | | | | | | | | | | ● | | ● |
| Sodium chloride - salt solution | 15% | ● | | | ● | | | ● | | | ● | | | ● | | | ● | | ● |
| Sulphur chloride and Calcium chloride | | | | | | | | | | | | | | | | | | | |
| Carbon tetrachloride and Chloric ether | | | | | | | | | | | | | | | | | | | |
| Iron dichloride | | ● | | | | | | | | | | | | | | | | | ● |
| Arsenic acid and Oleic acid | | ● | | | | | | | | | | | | | | | | | ● |
| Citric acid | 20% | ● | | | | | | | | | | | | | | | ● | | ● |
| Nitric acid | 20% | | ● | | | | | | | | | | | | | | ● | | ● |
| Nitric acid | 50% | | | | | | | | | | | | | | | | ● | | ● |
| Phosphoric acid | 30% | | ● | | | | | | | | | | | | | | ● | | ● |
| Hydrochlorid acid | 5% | ● | | | | | | | | | | | | | | | | | ● |
| Hydrochlorid acid | 35% | | | | | | | | | | | | | | | | | | ● |
| Chromic acid | 40% | | ● | | | | | | | | | | | | | | | | ● |
| Formic acid | 30% | | | ● | | | | | | | | | | | | | | | ● |
| Acetic acid | 10% | ● | | | | | | | | | | | | | | | ● | | ● |
| Sulphuric acid | 30% | ● | | | | | | | | | | | | | | | | | ● |
| Methanol | | | | | | | | | | | | | | | | | ● | | ● |
| Fuel oil | | | ● | | | | | | | | | | | | | | ● | | ● |
| Mineral oil | | | ● | | | | | | | | | | | | | | ● | | ● |
| Vegetable oil | | | ● | | | | | | | | | | | | | | ● | | ● |
| Rape oil | | | ● | | | | | | | | | | | | | | ● | | ● |
| Lamp oil | | | ● | | | | | | | | | | | | | | ● | | ● |
| Hydrogen peroxide | 30% | ● | | | | | | | | | | | | | | | ● | | ● |
| Ammonium sulphate | 15% | ● | | | | | | | | | | | | | | | ● | | ● |
| Toluene | | | | | | | | | | | | | | | | | ● | | ● |
| Turpentine oil | | | | | | | | | | | | | | | | | ● | | ● |
| Trichlorethylene | | | | | | | | | | | | | | | | | ● | | ● |
| Sodium carbonate | 20% | ● | | | | | | | | | | | | | | | ● | | ● |
| Aliphatic hydrocarbons | | ● | | | | | | | | | | | | | | | ● | | ● |
| Aromatic hydrocarbons | | | | | | | | | | | | | | | | | ● | | ● |
| Alkali | | | | | | | | | | | | | | | | | ● | | ● |

APPROXIMATE VALUES OF LIGHT FITTING MAINTENANCE FACTOR (LMF)

| IP65, IP66 light fittings – NANOTTICA, INNOVA, FUTURA, PRIMA LED, TREX, PERUN SLIM, ALUMAX LED, CANOPUS, LINEA | | | | | |
|---|-----------------------------|------------|------------|------------|------------|
| | Cleaning intervals in years | | | | |
| Environment | 1,0 | 1,5 | 2,0 | 2,5 | 3,0 |
| Very clean | 0,96 | 0,93 | 0,93 | 0,92 | 0,92 |
| Clean | 0,94 | 0,91 | 0,91 | 0,90 | 0,90 |
| Common (optional) | 0,90 | 0,88 | 0,86 | 0,85 | 0,84 |
| Dirty (optional) | 0,86 | 0,83 | 0,81 | 0,80 | 0,79 |

IP20, IP40 light fittings – BELTR LED, MO SLIM

| | Cleaning intervals in years | | | | |
|--------------------|-----------------------------|------------|------------|------------|------------|
| Environment | 1,0 | 1,5 | 2,0 | 2,5 | 3,0 |
| Very clean | 0,94 | 0,93 | 0,91 | 0,9 | 0,89 |
| Clean | 0,88 | 0,85 | 0,83 | 0,81 | 0,79 |
| Common (optional) | 0,82 | 0,79 | 0,77 | 0,75 | 0,73 |
| Dirty (optional) | 0,77 | 0,73 | 0,71 | 0,68 | 0,65 |

The table includes only approximate values that may not match the maintenance values achievable for a specific device.

Only damp microfiber cloth can be used for cleaning.

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catalogue 2024, version 01

A standard barcode used for product identification.

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