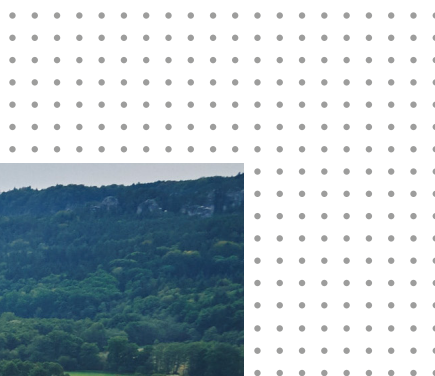


TREEVOS

CZECH LED
LUMINAIRES



2025



ABOUT US

We are a Czech company with deep roots in the Bohemian Paradise region which we are rightly proud of. With nearly 250 employees, we rank among the largest employers in the area. Since 1990, we have been dedicated to developing, manufacturing, and supplying industrial and interior luminaires in the Turnov region.

Over the past 30 years, we have established ourselves as a technological leader in industrial and office lighting, both domestically and internationally. Today, 40% of our total turnover comes from the domestic market, while 60% is generated through exports.

Innovation is at the core of everything we do. We continuously invest in research and development, operating our own R&D centre to create high-performance luminaires for even the most demanding environments. Most of our products are dustproof, waterproof, and built to withstand extreme temperatures, explosive environments, and low-ceiling spaces.

In 2021, we introduced the ground-breaking NANOTTICA luminaire range, incorporating advanced nano-optical structures in the diffuser. With this innovation, we still hold the lead in the lighting market.

DOMESTIC & INTERNATIONAL PRESENCE

In the Czech Republic, we supply industrial and interior lighting primarily to electrical installation companies. Our strong distribution network is supported by wholesalers specializing in electrical materials and lighting fixtures.

Beyond our home market, we successfully export to over 60 countries worldwide, including Italy, Germany, Belgium, Poland, the Netherlands, Estonia, and Switzerland.

Our reputation in global lighting technology stems from integrating cutting-edge research and innovation into our products. Additionally, our commitment to high-quality thermoplastic materials and premium electrical components has further strengthened our market position.

We base our business strategy on continuous innovation, regularly updating our product lines to align with the latest trends in industrial lighting. At the same time, we ensure our pricing remains competitive with leading global manufacturers.

OUR GOAL

We are committed to providing our clients with top-quality luminaires that offer high utility value – attractive, reliable, and competitively priced.

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.

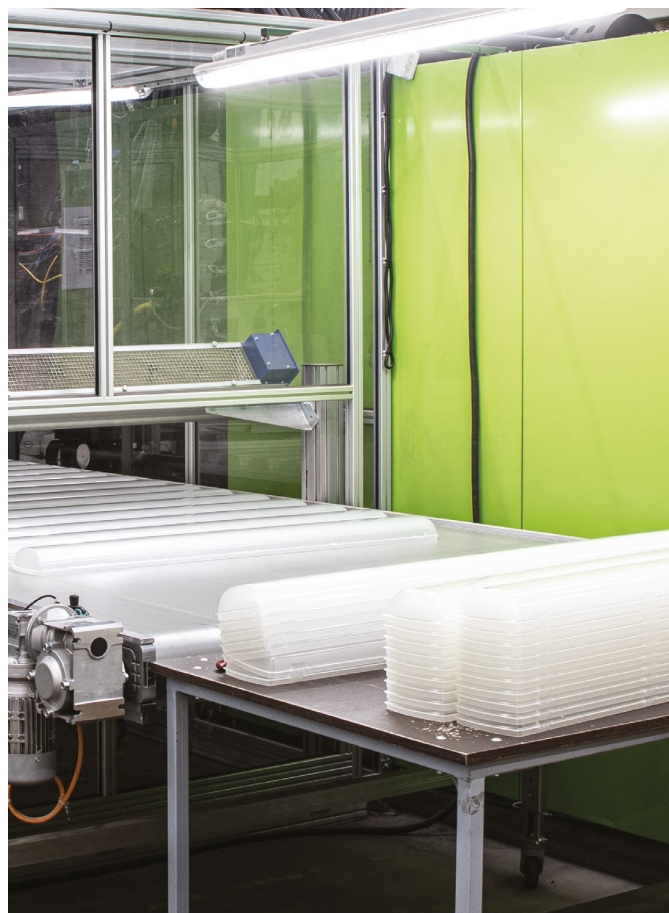
The projects are well secured as regards human resources. The members of the technical division have the required know-how and experience. They apply the results to industrial practice. Within the projects, they also closely cooperate with knowledgeable academicians of several technical universities.

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.

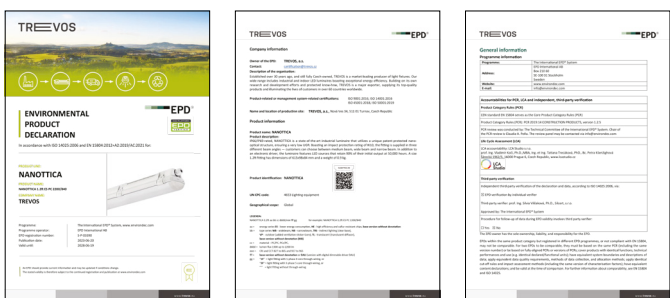


The EPD protocol is an important internationally recognized document that helps us to transparently describe the environmental impact of our products. It is a set of measurable information that covers, for example, energy consumption, water consumption, waste production, recycling or climate change impact,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



TREEVOS
CZECH LUMINAIRES



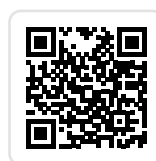
TREVOS LUMINAIRES AND DIALUX PLUG-IN

... our goal is to make your work in lighting design and calculation, as well as the professional presentation of artificial lighting results, more enjoyable. That is why we have integrated with DIALux software...

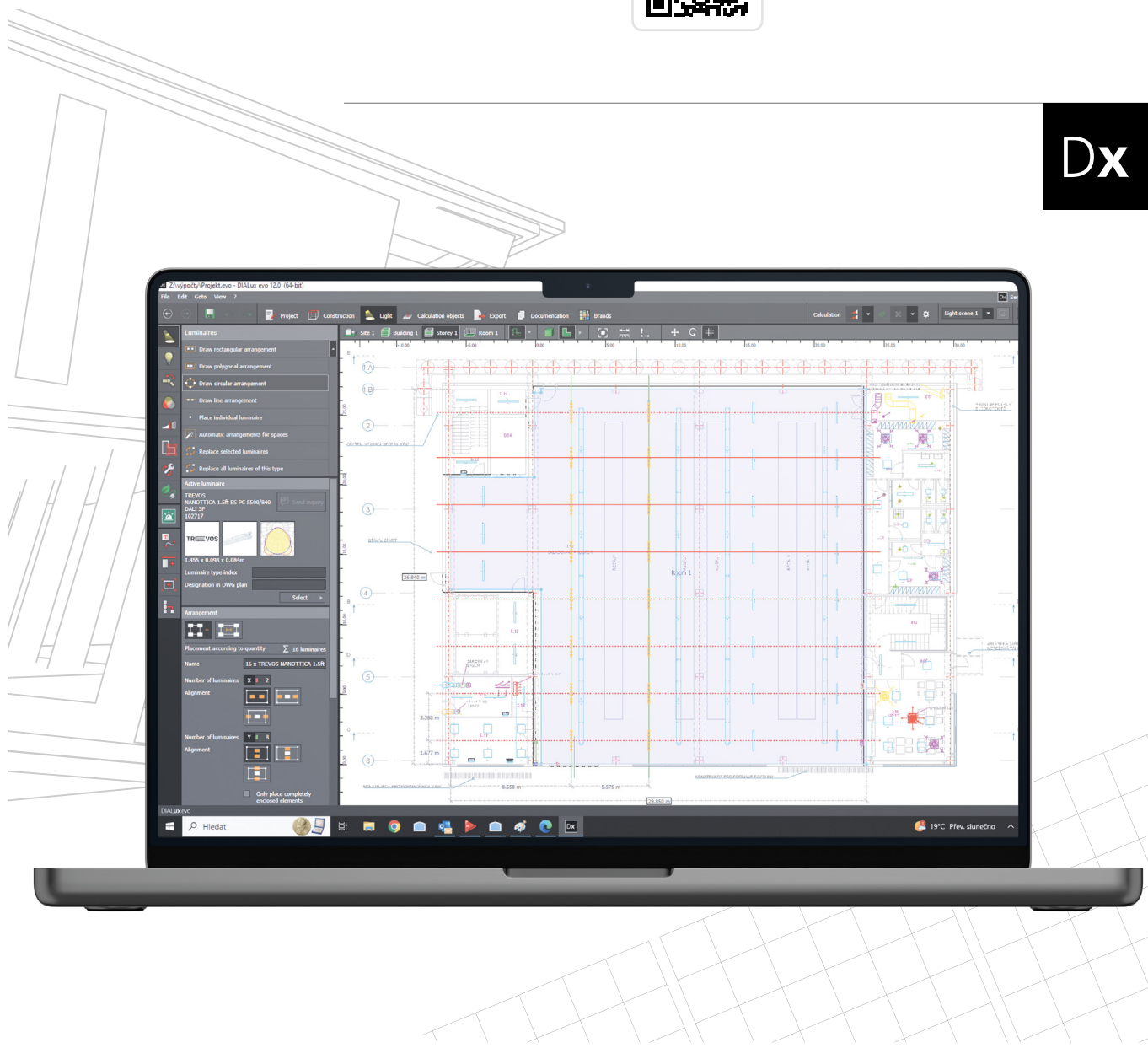
Trevos luminaires from the **PRIMA**, **NANOTTICA**, **FUTURA** and **INNOVA** ranges are available in this planning tool.

Our lighting specialists will design and calculate lighting projects for interiors, exteriors, sports grounds, or street lighting using DIALux software – completely FREE of charge.

Need help calculating a lighting project? We are here for you.
Write or call us at:



trevos@trevos.cz
www.trevos.com



WE STAY **ON TOP OF THE LATEST TRENDS** IN LIGHTING

We closely follow advancements in lighting technology while listening to our customers needs and preferences. In our 2025 catalogue, you'll find not only new luminaires but also innovative features designed to help you create the ideal lighting for any space. Explore the wide range of possibilities and get inspired to create the perfect lighting.

PRIMA

With years of experience and valuable feedback from you, our customers, we have made significant improvements to the popular PRIMA LED range. The new PRIMA luminaires offer numerous benefits, including higher luminous efficacy of up to 165 lm/W, IP69 rating, flicker-free performance, and flexible mounting options that speed up and simplify installation. The result is beautifully lit spaces and significant cost savings.

For more details, see page: 94

1

MULTILUMEN OUR NEW FEATURE

MultiLumen allows easy adjustment between up to four luminous flux levels using a DIP switch on the driver. This convenient feature lets you choose and customize one of four available performance levels to meet your current lighting needs, providing optimal luminous flux and efficiency across various settings.

For more details, see pages: 22, 96, 160, 286 ...

2

PIR SENSORS

Selected NANOTTICA, PRIMA, and FUTURA luminaires use PIR (Passive Infrared) technology, which operates based on thermal radiation. This type of sensor does not emit signals but detects movement by monitoring changes in ambient thermal radiation. It senses motion only within the designated area, ignoring activity in adjacent zones, thereby effectively reducing energy consumption for lighting.

For more details, see page: 399

3

EMERGENCY LUMINAIRES: NYX, ERYX, EMPUSA AND EPIGONI

They are essential components of safety systems in both public and private spaces. Their primary function is to provide adequate lighting during power outages, preventing panic and ensuring safe and efficient evacuation or continuation of critical activities. They are designed to protect both people and property.

For more details, see page: 370

4

E-CON TERMINAL BLOCK

It is designed for the NANOTTICA, PRIMA, FUTURA, and INNOVA luminaires. It boasts an impressive IP69 rating, and the colour and mechanical markings on the components help prevent incorrect installation. There's no need to open the device for installation, as it's available for 2, 3, 4, and 5-pole configurations. This external terminal block system enables quick and safe installation while ensuring reliable, energy-efficient operation.

For more details, see page: 8

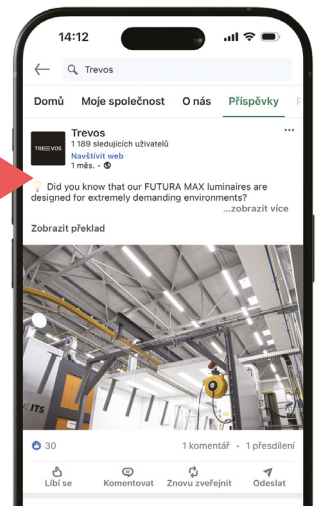
5

**STAY
IN THE LOOP**



For more information, visit the News section of our website at

www.trevos.com





QUICK & SAFE INSTALLATION

LUMINAIRES

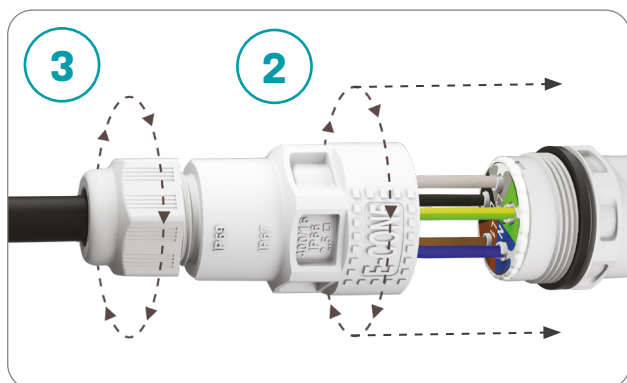
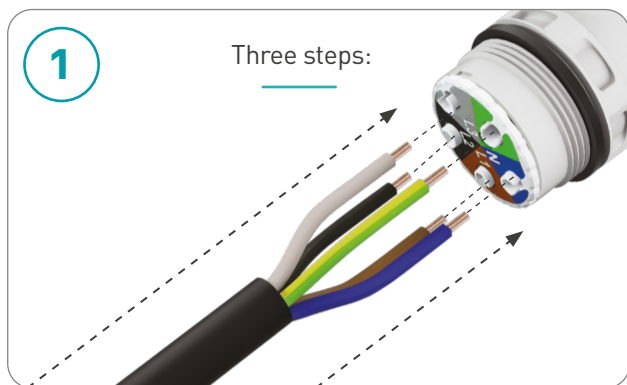
WITH THE **E-CON EXTERNAL
TERMINAL BLOCK**

BENEFITS

- ✓ Quick and easy assembly
- ✓ Safe wiring
- ✓ Cost savings

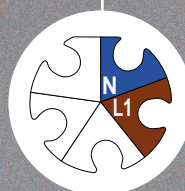
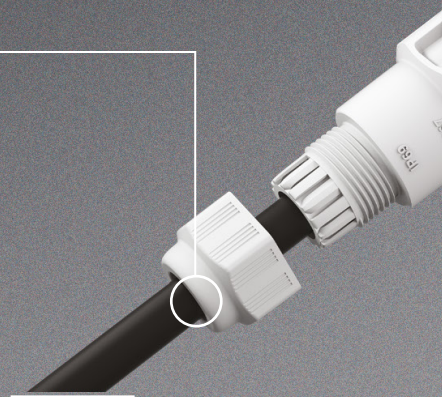
HOW DOES IT WORK?

Luminaires with an integrated E-CON terminal block do not need to be opened for installation. Quick and easy electrical installation **reduces installation time by up to 50%**. Its intuitive colour-coded components **eliminate wiring errors**.



CORE
CROSS-SECTION:
OF EXT. WIRE

1,5 – 2,5 mm²
Conductor type S (Solid)



E-CON2
CLASS II.



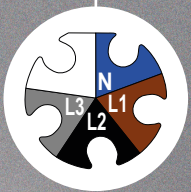
E-CON3
CLASS I.



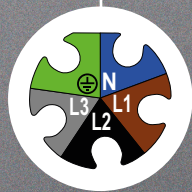
IP66
IP69



**E-CON IS AVAILABLE
FOR 2, 3, 4 AND
5-POLE INSTALLATION**



E-CON4
3F CLASS II.



E-CON5
3F CLASS I.



SYSTEM OF THE **E-CON TERMINAL BLOCK**

It enables **quick** and **safe** installation while ensuring **reliable** and **energy-efficient** operation.

Other characteristics:

- Number of poles: **2, 3, 4** or **5**
- Core cross-section of ext. wire: **1,5 - 2,5 mm²**
Conductor type S (Solid)
- Voltage rating: **400 V**, Current rating: **16 A**
- Ambient temperature range **-25 to +60°C**
- Materials: Grey polyamide (body)
spring steel, copper (contacts)
- Degree of protection: **IP66 / IP69**



PRIMA E-CON

The **NANOTTICA**, **PRIMA** and **FUTURA** luminaires are equipped with an integrated terminal block for quick, reliable and effortless connection.

The **INNOVA** product range includes this terminal block as a standard feature.

Our catalogue offer:



NANOTTICA E-CON



PRIMA E-CON



FUTURA E-CON



INNOVA

LUMINAIRES OVERVIEW **BY APPLICATION**



Common production and logistics areas (3.5 – 8 m)

Indoor and outdoor covered spaces, production halls, warehouses, logistics centres, sports complexes, industrial workshops, repair facilities, transport terminals, and corridors

NANOTTICA, PRIMA, FUTURA, INNOVA, ALUMAX LED, PERUN SLIM



Low ceilings (2.5 – 4 m)

Parking houses, garages, cellars, corridors, workshops, commercial units, and retail shops

NANOTTICA WB, INNOVA WB



High ceilings (7.5 – 15 m)

Industrial halls, warehouses, logistics centres, sports arenas, and gyms

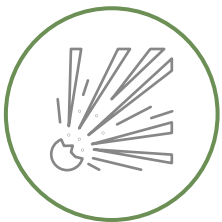
NANOTTICA NB, FUTURA NB, INNOVA NB, CANOPUS, LANUS



Chemically demanding facilities

Agricultural and livestock facilities, chemical plants, laboratories, automobile repair shops, printing plants, battery storage facilities, food & beverage processing plants, sewage treatment plants, and industrial treatment plants.

NANOTTICA ABS, PRIMA ABS, INNOVA ABS, FUTURA ABS



Spaces with explosion risk

Oil and gas refineries, chemical plants, warehouses with flammable liquids and gases, mines, silos, cosmetic and pharmaceutical production facilities, biomass & biogas plants, metal surface finishing plants.

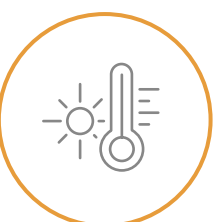
TREX, PERUN SLIM Ex, PRIMA LED Ex, PRIMA LED Ex 2/21



Low ambient temperatures

Cooling & freezing plants, refrigerated warehouses, and outdoor covered shelters in extremely low temperatures.

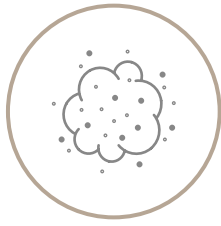
FROST, FROST PLUS, NANOTTICA MAX, PRIMA MAX, FUTURA MAX



High ambient temperatures

Steel and foundry plants, electroplating and painting facilities, greenhouses, industrial furnaces and drying rooms, rubber and plastic production plants, saunas and baths, engine & machine rooms, glass & ceramics workshops, mining facilities, and automotive testing centres.

NANOTTICA MAX, FUTURA MAX, PRIMA MAX, ALUMAX LED MAX, MIDDLE EAST Ta 55



Highly dusty environment

Woodworking workshops, cement & concrete works, textile factories, mills & grain processing plants, mining facilities, ceramics & stone workshops, glassworks, agricultural & food processing facilities, recycling facilities, and construction sites.

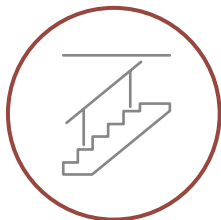
NANOTTICA, PRIMA, FUTURA, INNOVA



Gastro & food industry

Food production plants, professional kitchens, canteens, fast food restaurants, and bistros.

NANOTTICA, PRIMA, FUTURA, INNOVA



Outdoor covered areas

Transport terminals & stops, tunnels, underpasses & passageways, covered industrial ramps, entrance areas & shelters, and covered loading zones at logistics centres.

NANOTTICA VP, PRIMA VP, FUTURA VP, INNOVA, ALUMAX LED



Buildings for cattle breeding

Breeding facilities.

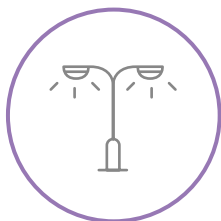
PRIMA ABS, INNOVA ABS, FUTURA ABS, PRIMA RED, INNOVA RED, FUTURA RED



Indoor spaces

Offices, meeting rooms, training centres, classrooms, libraries, entrance areas and corridors, ancillary operating areas.

LINEA, LUXOR LED, SB LED, LYRA, BELTR LED, NAOS, NAON, MO SLIM, TAURI, SIRIS



Public lighting

Pavements & pedestrian zones, roads, parks & recreational areas, car parks, bridges & underpasses, cycle paths, pedestrian crossings and safety islands

EVELUX, PIXEL LED



Emergency light fittings

Industrial buildings, healthcare facilities, apartment buildings & their common areas, schools, museums, cinemas, concert halls, office buildings and shopping centres.

EPIGONI, EMPUSA, ERYX, NYX, PRIMA NM, FUTURA NM, PRIMA LED Ex NM, PERUN SLIM Ex NM, BELTR LED NM

Industrial plastic

NANOTTICA 20

NANOTTICA basic version **22**



NANOTTICA NB for high ceilings **26**



NANOTTICA WB for low ceilings **31**



NANOTTICA ES energy saver **35**



NANOTTICA MAX for extreme temperatures **39**



NANOTTICA VP for outdoor spaces **42**



NANOTTICA ABS chemically resistant version **46**



NANOTTICA NB ABS for high ceilings, chemically resistant version **50**



NANOTTICA WB ABS for low ceilings, chemically resistant version **54**



NANOTTICA ES ABS energy saver, chemically resistant version **58**



NANOTTICA VP ABS for outdoor spaces, chemically resistant version **62**



NANOTTICA TRS exceptionally low UGR **66**



NANOTTICA ES TRS energy saver, exceptionally low UGR **70**



NANOTTICA CLASS II with Class II insulation **74**



NANOTTICA SNS with microwave motion detector **78**



Industrial plastic

NANOTTICA SNS WB with motion detector, for low ceilings **82**



NEW

NANOTTICA PIR with infrared motion detector **86**



NEW

NANOTTICA E-CON with external terminal block **89**



NEW

PRIMA 94

PRIMA **96**



PRIMA MAX for extreme temperatures **99**



NEW

PRIMA VP for outdoor spaces **102**



PRIMA ABS chemically resistant version **105**



PRIMA VP ABS for outdoor spaces, chemically resistant version **108**



PRIMA VALUE value version **111**



PRIMA VALUE ABS value, chemically resistant version **114**



PRIMA TRS exceptionally low UGR **117**



PRIMA CLASS II with Class II insulation **120**



PRIMA SNS with microwave motion detector **123**



PRIMA PIR with infrared motion detector **126**



NEW

Industrial plastic

PRIMA E-CON with external terminal block **129**



NEW

INNOVA 134

INNOVA **136**



INNOVA NB for high ceilings **139**



INNOVA WB for low ceilings **142**



INNOVA ABS chemically resistant version **145**



INNOVA NB ABS for high ceilings, chemically resistant version **148**



INNOVA WB ABS for low ceilings, chemically resistant version **151**



INNOVA TRS for both direct and indirect illumination **154**



FUTURA 158

FUTURA basic version **160**



FUTURA NB for high ceilings **163**



FUTURA ES energy saver **166**



FUTURA HE high efficiency **169**



FUTURA MAX for extreme temperatures **172**



Industrial plastic

FUTURA VP 175
for outdoor spaces



FUTURA ABS 178
chemically resistant version



FUTURA ES ABS 181
energy saver, chemically resistant



FUTURA HE ABS 184
high efficiency, chemically resistant



FUTURA CLASS II 187
with Class II insulation



FUTURA SNS 190
with microwave motion detector



FUTURA PIR 193
with infrared motion detector



NEW

FUTURA E-CON 196
with external terminal block



NEW

FROST 200

FROST 202
for cold stores and freezing facilities



FROST PLUS 205
for cold stores and freezing facilities



MIDDLE EAST Ta 55 208

MIDDLE EAST Ta 55 210



Industrial plastic

PRIMA LED 214

PRIMA LED Ex 216
for explosion-hazard environment 2/22



PRIMA LED Ex 2/21 219
for explosion-hazard environment 2/21



NEW
SUMMER 2025



PRIMA LED TUBE 222



PRIMA LED TUBE SLIM 225



CONCEPTS

CONCEPT HCL 230
tunable white to boost circadian rhythms



CONCEPT RED 233
with red light for cows in the barns



CONCEPT BLUE 235
with blue light for poultry farms



CONCEPT MARBLE MEAT 237
for meat presentation



NEW



Industrial metal

TrEx 240

TrEx 242
for explosion-hazard environment



PERUN SLIM 248

PERUN SLIM 250



PERUN SLIM Ex 253



ALUMAX LED 256

ALUMAX LED 258



ALUMAX LED MAX 261
for extreme temperatures



CANOPUS 266

CANOPUS 268



CANOPUS HE 275
high efficiency



LANUS 280

LANUS ROUND 282



Indoor surface-mounted plastic

LINEA 284

LINEA 286



LINEA SQUARE 288



LINEA ROUND 290



LUXOR LED 294

LUXOR LED 296



SB LED 300

SB LED 302



LYRA 304

LYRA 306



BELTR LED 308

BELTR LED 310



BELTR LED TUBE 313



NAOS 318

NAOS 320



NAOS AS 323



Indoor surface-mounted plastic

NAOS SQUARE 325



NAOS MPR 327



NAOS SQUARE MPR 330



NAON 334

NAON 336



SIRIS 340

SIRIS 342



NEW SUMMER 2025

MO SLIM 346

MO SLIM 348



TAURI 352

TAURI 354



NEW

Public lighting

PUBLIC LIGHTING 358

PIXEL LED 360

NEW



EVELUX 364

NEW



Emergency light fittings

Emergency 370

PRIMA LED Ex NM 372



FUTURA NM 374



PRIMA NM 377



PERUN SLIM Ex NM 380



BELTR LED NM 382



EPIGONI 384

NEW



EMPUSA 386

NEW



ERYX 388

NEW



NYX 390

NEW



DALI PROFESSIONAL CONTROL 394



PROPOSAL OF EMERGENCY LIGHT FITTINGS 402

mounting výška (m)	FUTURA 24ft, 2.6ft					PRIMA 14R, 1.6ft					
	2.0	4.2	9.3	8.9	8.6	3.9	4.4	10.0	9.1	8.1	3.6
2.0	4.7	11.5	11.1	10.6	4.5	4.7	12.2	11.0	9.8	4.9	
3.0	5.0	12.6	12.1	11.6	4.6	5.0	13.0	11.6	10.6	4.2	

CORRIDOR FUNCTION 404



SOURCE COLOUR RENDERING 406






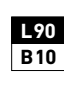


Source colour rendering correct choice	Warm white				White				Daylight			
	2700K	3000K	3500K	4000K	4000K	4500K	5000K	5500K	6000K	6500K	7000K	8000K
Light colour	20	29	827	127	830	933	25	33	846	949	953	943
CE division	3	1B	1A	1B	1A	2A	2B	1B	1A	1A	1B	1A
Shop - foodstuffs												

CHEMICAL RESISTANCE 407

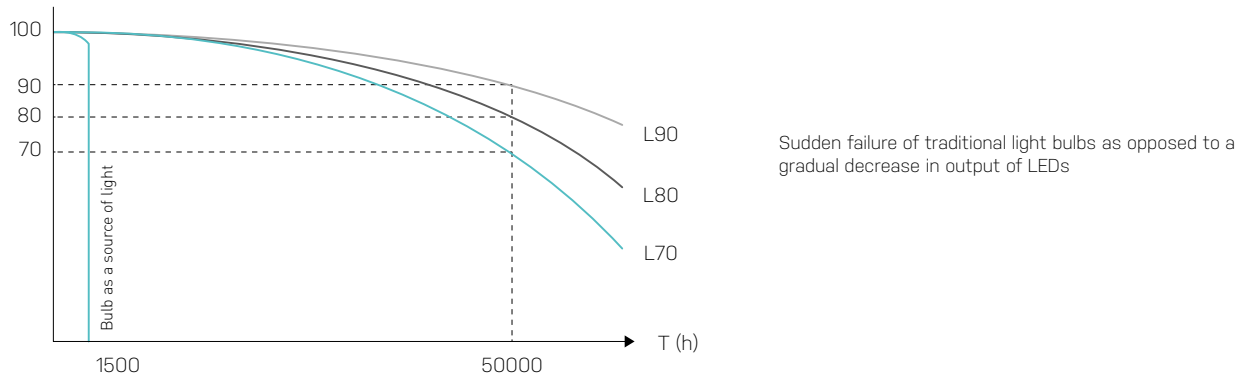
Acetic acid and Oleic acid	20%	50%	100%	20%	50%	100%	20%	50%	100%
Citric acid	•	•	•	•	•	•	•	•	•
Nitric acid	•	•	•	•	•	•	•	•	•
Hydrochloric acid	•	•	•	•	•	•	•	•	•
Sulphuric acid	•	•	•	•	•	•	•	•	•
Formic acid	•	•	•	•	•	•	•	•	•

LIGHT FITTING MAINTENANCE FACTOR 408

Environment	Cleaning intervals in years				
	1.0	1.5	2.0	2.5	3.0
Very clean	0.96	0.93	0.92	0.92	0.92
Clean	0.94	0.91	0.91	0.90	0.90

 (Ingress Protection) code for protection level against dust, solid items and water.	 Nominal input voltage 220-240V, 50/60 Hz	 Conformity mark documenting conformity verification of product with all EU harmonising provisions
 Test of protection against hot water high-pressure jets.	 Electric equipment: with digital dimmable driver DALI	 Licence mark indicating product conformity with European standards for electric safety of product
 Nominal maximum temperature of environment	 1 phase through-wiring connection	 The mark is registered at the CENELEC as a Czech mark expressing the permanent conformity of a product with electrical safety standards
 Fire and ignition resistance at test by hot loop heated to 850 °C	 3 phase through-wiring connection	 Internationally acknowledged certificate. Product certification according to IEC standards
 Code for protection level against external impact Anti-vandalism version	 Electric equipment: for emergency illumination with own independent source	 Electromagnetic compatibility
 LED light fitting	 Electrical equipment: a microwave motion sensor	 Certificate of the United Customs Union (Russia, Belarus, Kazakhstan, Armenia, Kyrgyzstan)
 Light fitting with 5-year warranty. It does not cover light fittings fitted with emergency module (2 years) and batteries (2 years).	 Electrical equipment: a infrared motion sensor	 Light fitting intended for environments with danger of explosion
 Light fitting external surface warming	 The colour rendering index determines the colour sensation accuracy at other than daily lighting	 Declaration of conformity with legal norms for food industry
 Class 1 light fitting - basic insulation, plus terminal for guard wire	 The chromaticity temperature determines the colour spectrum of the light (it is given in Kelvin - K)	 The light fitting complies with the relevant requirements of the German Agricultural Society (DLG) and may be installed in agricultural buildings.
 Class 2 light fitting	 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).	 The luminaire complies with the resistance requirements as per DIN 18032-3 and DIN EN 13964 and may be installed in sports halls.
	 The MultiLumen function stands for adaptability and economy. It enables simple switching between four luminous fluxes via driver's DIP switch. In this way, the luminaire can be adjusted for changing lighting requirements without much effort.	 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 MultiColour function enables simple switching between three light colour temperature.	 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.
	 Low UGR luminaires are ideal for activities that require high visual demands. The lower the value is, the less the lighting is disturbing and more friendly for the eyes.	

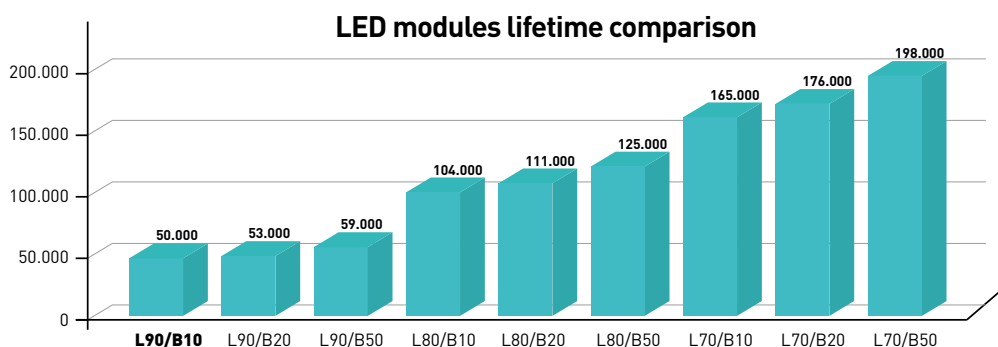
Reliability and long lifespan are some of the key advantages of LED technology. And while it is true that they do not last forever, unlike light bulbs and halogen lamps, LED chips never fail abruptly. Instead, they gradually fade over time until they become too dim.



WHAT DOES LxBx MEAN?

<p>L90 B10</p> <p>90 % of sources of light retain more than 90 % of their luminous power while the remaining 10 % retain less than 90% of their rated luminous power.</p>	<p>L80 B10</p> <p>90 % of sources of light retain more than 80 % of their luminous power while the remaining 10 % retain less than 80% of their rated luminous power.</p>
<p>L80 B50</p> <p>50 % of sources of light retain more than 80 % of their luminous power while the remaining 50 % retain less than 80% of their rated luminous power.</p>	<p>L90 B50</p> <p>50 % of sources of light retain more than 90 % of their luminous power while the remaining 50 % retain less than 90% of their rated luminous power.</p>

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.



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

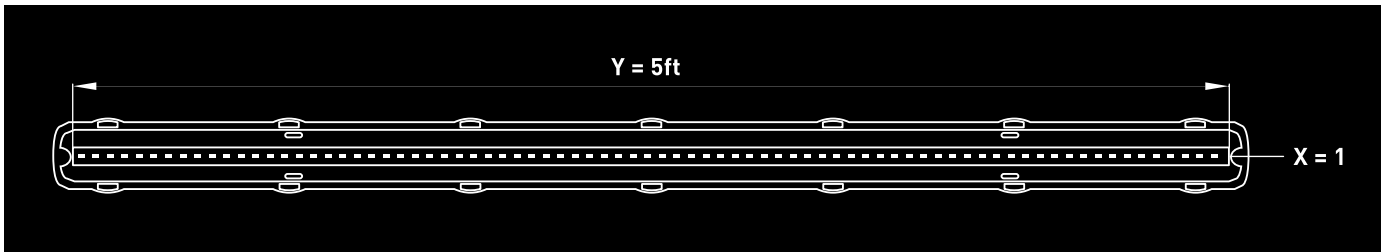
- total length of LED modules in one row
- Y = {1, 2, 4, 5}

ft

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

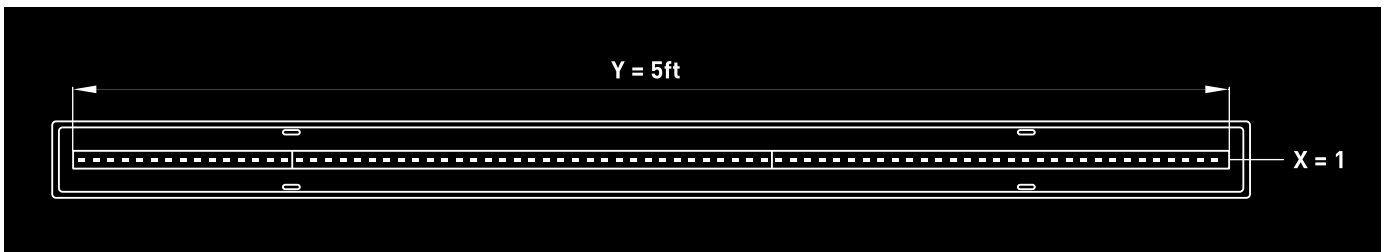
NANOTTICA 1.5ft

- X = 1
- Y = 5ft



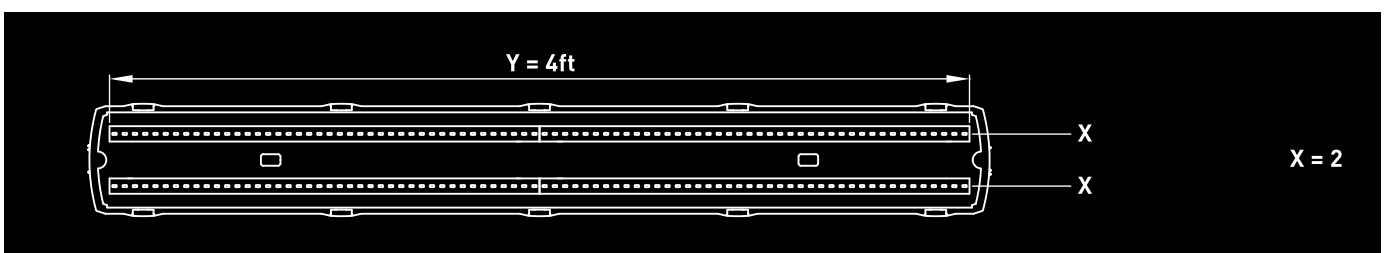
INNOVA 1.5ft

- X = 1
- Y = 5ft



FUTURA 2.4ft

- X = 2
- Y = 4ft





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.

We've integrated with DIALux software

Our luminaires from the NANOTTICA, PRIMA, FUTURA, and INNOVA product lines are available in this planning tool. Our lighting specialists will design and calculate lighting projects for interiors, exteriors, sports grounds, or street lighting using DIALux software – completely FREE of charge. Our goal is to make your work in lighting design and calculation, as well as the professional presentation of artificial lighting results, more enjoyable.

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


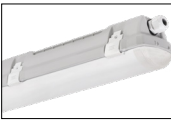
















NANOTTICA



INDUSTRIAL
PLASTIC
DUSTPROOF
WATERPROOF
IMPACT RESISTANT



NANOTTICA – industrial plastic LED light fitting

<p>NANOTTICA BASIC VERSION page 22</p>		<p>NANOTTICA ENERGY SAVER, CHEMICALLY RESISTANT VERSION page 58</p>	
<p>IP66 IP69</p>	<p>NANOTTICA PC, PCc page 22</p>	<p>IP66 IP69</p>	<p>NANOTTICA ES ABS, ABSc page 58</p>
<p>NANOTTICA FOR HIGH CEILINGS page 26</p>		<p>NANOTTICA FOR OUTDOOR SHELTERED SPACES, CHEMI- CALLY RESISTANT VERSION page 62</p>	
<p>IP66 IP69</p>	<p>NANOTTICA NB PC, PCc page 26</p>	<p>IP66 IP69</p>	<p>NANOTTICA VP ABS, ABSc page 62</p>
<p>NANOTTICA FOR LOW CEILINGS page 31</p>		<p>NANOTTICA EXCEPTIONALLY LOW UGR page 66</p>	
<p>IP66 IP69</p>	<p>NANOTTICA WB PC, PCc page 31</p>	<p>IP66 IP69</p>	<p>NANOTTICA TRS PC, PCc page 66</p>
<p>NANOTTICA ES ENERGY SAVER page 35</p>		<p>NANOTTICA ENERGY SAVER, EXCEPTIONALLY LOW UGR page 70</p>	
<p>IP66 IP69</p>	<p>NANOTTICA ES PC, PCc page 35</p>	<p>IP66 IP69</p>	<p>NANOTTICA ES TRS PC, PCc page 70</p>
<p>NANOTTICA FOR EXTREME TEMPERATURES page 39</p>		<p>NANOTTICA WITH CLASS II INSULATION page 74</p>	
<p>IP66 IP69</p>	<p>NANOTTICA MAX PCc page 39</p>	<p>IP66 IP69</p>	<p>NANOTTICA CLASS II PC, PCc page 74</p>
<p>NANOTTICA FOR OUTDOOR SHELTERED SPACES page 42</p>		<p>NANOTTICA WITH MICROWAVE MOTION SENSOR page 78</p>	
<p>IP66 IP69</p>	<p>NANOTTICA VP PC, PCc page 42</p>	<p>IP66 IP69</p>	<p>NANOTTICA SNS PC, PCc page 78</p>
<p>NANOTTICA CHEMICALLY RESISTANT VERSION page 46</p>		<p>NANOTTICA WITH MI- CROWAVE MOTION SEN- SOR FOR LOW CEILINGS page 82</p>	
<p>IP66 IP69</p>	<p>NANOTTICA ABS, ABSc page 46</p>	<p>IP66 IP69</p>	<p>NANOTTICA SNS WB PC, PCc page 82</p>
<p>NANOTTICA FOR HIGH CEILINGS, CHEMICALLY RESISTANT VERSION page 50</p>		<p>NANOTTICA WITH INFRARED MOTION SENSOR page 86</p>	
<p>IP66 IP69</p>	<p>NANOTTICA NB ABS, ABSc page 50</p>	<p>IP65</p>	<p>NANOTTICA PIR PC, PCc page 86</p>
<p>NANOTTICA FOR LOW CEILINGS, CHEMICALLY RESISTANT VERSION page 54</p>		<p>NANOTTICA WITH EXTERNAL TERMINAL BLOCK page 89</p>	
<p>IP66 IP69</p>	<p>NANOTTICA WB ABS, ABSc page 54</p>	<p>IP66 IP69</p>	<p>NANOTTICA E-CON PC, PCc page 89</p>

NANOTTICA



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

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**.

Thanks to the **MultiLumen function**, the luminaire can be adjusted for changing lighting requirements without much effort.

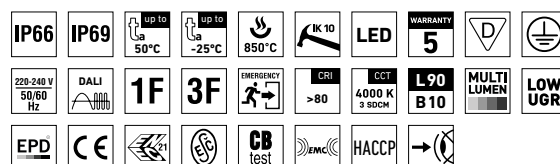
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

Luminaire 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; for more information see page 407.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 20,0 to 24,6**
- 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
- Lifetime: 100 000 hours / L80B10
- 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
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- 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, EŠC, ENEC, CB, HACCP**



NANOTTICA PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **165 lm/W**
- **UGR ranging from 20,0 to 24,6**
- 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
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- 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
- 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]	Preselected Step 1 of MultiLumen function				Net weight [kg]	A [mm]	D [mm]
			Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/transverse			
Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffusor with nanooptics (standard beam angle), transparent polycarbonate									
NANOTTICA 1.2ft PC 1600/840	50	1630	1530	10,5	146	20,0 / 21,0	0,9	615	110 - 370
NANOTTICA 1.2ft PC 2200/840 *	45	2360	2220	14,6	152	21,3 / 22,3	0,9	615	110 - 370
NANOTTICA 1.4ft PC 3200/840	50	3260	3060	20,1	152	20,1 / 21,3	1,7	1175	700 - 960
NANOTTICA 1.4ft PC 4400/840 *	45	4520	4250	27,3	156	21,3 / 22,4	1,7	1175	700 - 960
NANOTTICA 1.4ft PC 6400/840 *	45	6500	6110	38,5	159	22,5 / 23,7	1,7	1175	700 - 960
NANOTTICA 1.4ft PC 8000/840	35	8160	7670	49,0	157	23,3 / 24,5	1,7	1175	700 - 960
NANOTTICA 1.5ft PC 4000/840	50	4180	3930	25,3	155	20,3 / 21,4	2,0	1455	970 - 1230
NANOTTICA 1.5ft PC 5500/840 *	45	5590	5250	33,3	158	21,3 / 22,4	2,0	1455	970 - 1230
NANOTTICA 1.5ft PC 8000/840 *	45	8020	7540	47,4	159	22,5 / 23,7	2,0	1455	970 - 1230
NANOTTICA 1.5ft PC 10000/840	35	10350	9730	62,9	155	23,4 / 24,6	2,0	1455	970 - 1230

*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
NANOTTICA 1.2ft PC 2200/840 ML	1920	13,0	148	1620	11,0	147	1310	9,1	144
NANOTTICA 1.4ft PC 4400/840 ML	3680	23,3	158	3110	19,5	159	2520	15,8	159
NANOTTICA 1.4ft PC 6400/840 ML	5300	32,8	162	4480	27,4	164	3640	22,1	165
NANOTTICA 1.5ft PC 5500/840 ML	4550	28,4	160	3840	23,6	163	3100	19,1	162
NANOTTICA 1.5ft PC 8000/840 ML	6550	40,4	162	5540	33,6	165	4480	27,2	165

NANOTTICA PC

Code	Type
100002	NANOTTICA 1.2ft PC 1600/840
100003	NANOTTICA 1.2ft PC 2200/840 ML
100005	NANOTTICA 1.4ft PC 3200/840
100006	NANOTTICA 1.4ft PC 4400/840 ML
100007	NANOTTICA 1.4ft PC 6400/840 ML
110157	NANOTTICA 1.4ft PC 8000/840
100009	NANOTTICA 1.5ft PC 4000/840
100010	NANOTTICA 1.5ft PC 5500/840 ML
100011	NANOTTICA 1.5ft PC 8000/840 ML
110158	NANOTTICA 1.5ft PC 10000/840

Non-dimmable driver - plastic clips

	1F	3F	M3hAt	3F M3hAt
	100013	100024	x	x
	100014	100025	x	x
	100016	100027	107935	107943
	100017	100028	107936	107944
	100018	100029	107937	107945
	110159	110161	x	x
	100020	100031	107939	107947
	100021	100032	107940	107948
	100022	100033	107941	107949
	110160	110162	x	x

NANOTTICA PCc

Code	Type
100070	NANOTTICA 1.2ft PCc 1600/840
100071	NANOTTICA 1.2ft PCc 2200/840 ML
100073	NANOTTICA 1.4ft PCc 3200/840
100074	NANOTTICA 1.4ft PCc 4400/840 ML
100075	NANOTTICA 1.4ft PCc 6400/840 ML
110163	NANOTTICA 1.4ft PCc 8000/840
100077	NANOTTICA 1.5ft PCc 4000/840
100078	NANOTTICA 1.5ft PCc 5500/840 ML
100079	NANOTTICA 1.5ft PCc 8000/840 ML
110164	NANOTTICA 1.5ft PCc 10000/840

Non-dimmable driver - stainless clips (c)

	1F	3F	M3hAt	3F M3hAt
	100081	100092	x	x
	100082	100093	x	x
	100084	100095	107951	107959
	100085	100096	107952	107960
	100086	100097	107953	107961
	110165	110167	x	x
	100088	100099	107955	107995
	100089	100100	107956	107996
	100090	100101	107957	107997
	110166	110168	x	x

NANOTTICA PC DALI

Code	Type
100138	NANOTTICA 1.2ft PC 1600/840 DALI
100139	NANOTTICA 1.2ft PC 2200/840 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
110169	NANOTTICA 1.4ft PC 8000/840 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
110170	NANOTTICA 1.5ft PC 10000/840 DALI

Digital dimmable driver DALI - plastic clips

	1F	3F	M3hAt	3F M3hAt
	100149	x	x	x
	100150	x	x	x
	100152	100163	107963	107971
	100153	100164	107964	107972
	100154	100165	107965	107973
	110171	110173	x	x
	100156	100167	107967	107975
	100157	100168	107968	107976
	100158	100169	107969	107977
	110172	110174	x	x

NANOTTICA PCc DALI

Code	Type
100206	NANOTTICA 1.2ft PCc 1600/840 DALI
100207	NANOTTICA 1.2ft PCc 2200/840 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
110175	NANOTTICA 1.4ft PCc 8000/840 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
110176	NANOTTICA 1.5ft PCc 10000/840 DALI

Digital dimmable driver DALI - stainless clips (c)

	1F	3F	M3hAt	3F M3hAt
	100217	x	x	x
	100218	x	x	x
	100220	100231	107979	107987
	100221	100232	107980	107988
	100222	100233	107981	107989
	110177	110179	x	x
	100224	100235	107983	107991
	100225	100236	107984	107992
	100226	100237	107985	107993
	110178	110180	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 nanooptics. 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**.

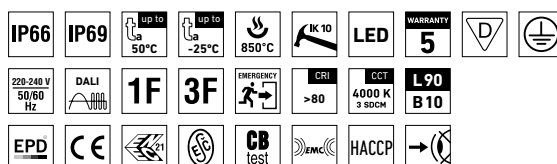
It is designed for indoor spaces, **walls and large corridors in high industrial and agricultural buildings as well as in warehouses and sports facilities. It is also a great choice for warehouse aisles and roofed sports halls.** IP69-rated and HACCP-compliant, the fitting's design also makes it a perfect 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 407.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- **Low UGR ranging from 21,9 to 26,1**
- **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
- Lifetime: 100 000 hours / L80B10
- 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**

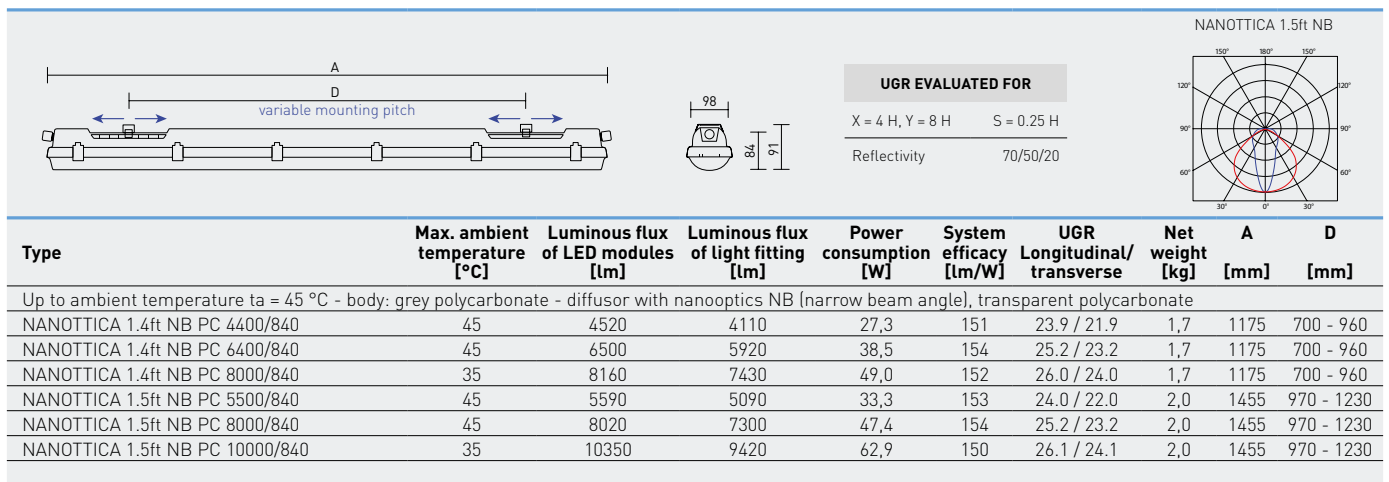


NANOTTICA NB PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 45 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **154 lm/W**
- **UGR ranging from 21,9 to 26,1**
- 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
- 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 %



NANOTTICA NB PC

Code	Type	Non-dimmable driver - plastic clips			
		1F	3F	M3hAt	3F M3hAt
100273	NANOTTICA 1.4ft NB PC 4400/840	100277	100281	107998	108002
100274	NANOTTICA 1.4ft NB PC 6400/840	100278	100282	107999	108003
110181	NANOTTICA 1.4ft NB PC 8000/840	110183	110185	x	x
100275	NANOTTICA 1.5ft NB PC 5500/840	100279	100283	108000	108004
100276	NANOTTICA 1.5ft NB PC 8000/840	100280	100284	108001	108005
110182	NANOTTICA 1.5ft NB PC 10000/840	110184	110186	x	x

NANOTTICA NB PCc

Code	Type	Non-dimmable driver - stainless clips [c]			
		1F	3F	M3hAt	3F M3hAt
100301	NANOTTICA 1.4ft NB PCc 4400/840	100305	100309	108006	108026
100302	NANOTTICA 1.4ft NB PCc 6400/840	100306	100310	108007	108027
110187	NANOTTICA 1.4ft NB PCc 8000/840	110189	110191	x	x
100303	NANOTTICA 1.5ft NB PCc 5500/840	100307	100311	108008	108028
100304	NANOTTICA 1.5ft NB PCc 8000/840	100308	100312	108009	108029
110188	NANOTTICA 1.5ft NB PCc 10000/840	110190	110192	x	x

NANOTTICA NB PC DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
100329	NANOTTICA 1.4ft NB PC 4400/840 DALI	100333	100337	108010	108014
100330	NANOTTICA 1.4ft NB PC 6400/840 DALI	100334	100338	108011	108015
110193	NANOTTICA 1.4ft NB PC 8000/840 DALI	110195	110197	x	x
100331	NANOTTICA 1.5ft NB PC 5500/840 DALI	100335	100339	108012	108016
100332	NANOTTICA 1.5ft NB PC 8000/840 DALI	100336	100340	108013	108017
110194	NANOTTICA 1.5ft NB PC 10000/840 DALI	110196	110198	x	x

NANOTTICA NB PCc DALI

Digital dimmable driver DALI - stainless clips (c)

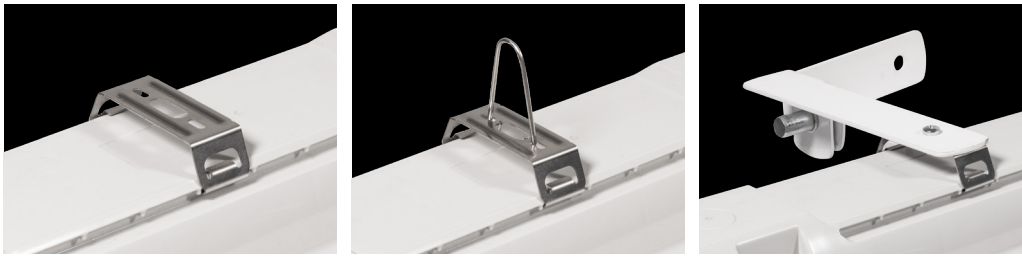
Code	Type	1F	3F	M3hAt	3F M3hAt
100357	NANOTTICA 1.4ft NB PCc 4400/840 DALI	100361	100365	108018	108022
100358	NANOTTICA 1.4ft NB PCc 6400/840 DALI	100362	100366	108019	108023
110199	NANOTTICA 1.4ft NB PCc 8000/840 DALI	110201	110203	x	x
100359	NANOTTICA 1.5ft NB PCc 5500/840 DALI	100363	100367	108020	108024
100360	NANOTTICA 1.5ft NB PCc 8000/840 DALI	100364	100368	108021	108025
110200	NANOTTICA 1.5ft NB PCc 10000/840 DALI	110202	110204	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 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 nanooptics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

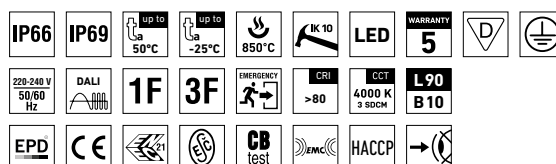
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

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 407.

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 21,5 to 25,2**
- 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
- Lifetime: 100 000 hours / L80B10
- 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 WB PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **157 lm/W**
- **UGR ranging from 21,5 to 25,2**
- 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 nanooptics 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
- 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 %

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

NANOTTICA 1.5ft WB

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 nanooptics WB (wide beam angle), transparent polycarbonate									
NANOTTICA 1.4ft WB PC 3200/840	50	3260	3030	20,1	151	22.8 / 21.5	1,7	1175	700 - 960
NANOTTICA 1.4ft WB PC 4400/840	45	4520	4200	27,3	154	23.9 / 22.6	1,7	1175	700 - 960
NANOTTICA 1.4ft WB PC 6400/840	45	6500	6050	38,5	157	25.2 / 23.9	1,7	1175	700 - 960
NANOTTICA 1.5ft WB PC 4000/840	50	4180	3890	25,3	154	22.9 / 21.6	2,0	1455	970 - 1230
NANOTTICA 1.5ft WB PC 5500/840	45	5590	5200	33,3	156	23.9 / 22.6	2,0	1455	970 - 1230
NANOTTICA 1.5ft WB PC 8000/840	45	8020	7460	47,4	157	25.2 / 23.9	2,0	1455	970 - 1230

NANOTTICA WB PC

Code	Type
100386	NANOTTICA 1.4ft WB PC 3200/840
100387	NANOTTICA 1.4ft WB PC 4400/840
100388	NANOTTICA 1.4ft WB PC 6400/840
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	M3hAt	3F M3hAt
	100394	100402	108031	108039
	100395	100403	108032	108040
	100396	100404	108033	108041
	100398	100406	108035	108043
	100399	100407	108036	108044
	100400	100408	108037	108045

NANOTTICA WB PCc

Code	Type
100442	NANOTTICA 1.4ft WB PCc 3200/840
100443	NANOTTICA 1.4ft WB PCc 4400/840
100444	NANOTTICA 1.4ft WB PCc 6400/840
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	M3hAt	3F M3hAt
	100450	100458	108047	108055
	100451	100459	108048	108056
	100452	100460	108049	108057
	100454	100462	108051	108251
	100455	100463	108052	108252
	100456	100464	108053	108253

NANOTTICA WB PC DALI

Code Type		Digital dimmable driver DALI - plastic clips			
		1F	3F	M3hAt	3F M3hAt
100498	NANOTTICA 1.4ft WB PC 3200/840 DALI	100506	100514	108059	108067
100499	NANOTTICA 1.4ft WB PC 4400/840 DALI	100507	100515	108060	108068
100500	NANOTTICA 1.4ft WB PC 6400/840 DALI	100508	100516	108061	108069
100502	NANOTTICA 1.5ft WB PC 4000/840 DALI	100510	100518	108063	108071
100503	NANOTTICA 1.5ft WB PC 5500/840 DALI	100511	100519	108064	108072
100504	NANOTTICA 1.5ft WB PC 8000/840 DALI	100512	100520	108065	108073

NANOTTICA WB PCc DALI

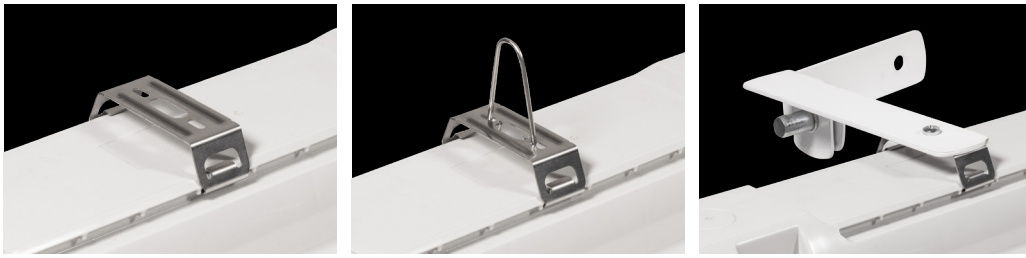
Code Type		Digital dimmable driver DALI - stainless clips (c)			
		1F	3F	M3hAt	3F M3hAt
100554	NANOTTICA 1.4ft WB PCc 3200/840 DALI	100562	100570	108075	108083
100555	NANOTTICA 1.4ft WB PCc 4400/840 DALI	100563	100571	108076	108084
100556	NANOTTICA 1.4ft WB PCc 6400/840 DALI	100564	100572	108077	108085
100558	NANOTTICA 1.5ft WB PCc 4000/840 DALI	100566	100574	108079	108087
100559	NANOTTICA 1.5ft WB PCc 5500/840 DALI	100567	100575	108080	108088
100560	NANOTTICA 1.5ft WB PCc 8000/840 DALI	100568	100576	108081	108089

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
3F - 3-phase 5 core through-wiring in the luminaire
M3hAt - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
3F M3hAt - 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 M3hAt - 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

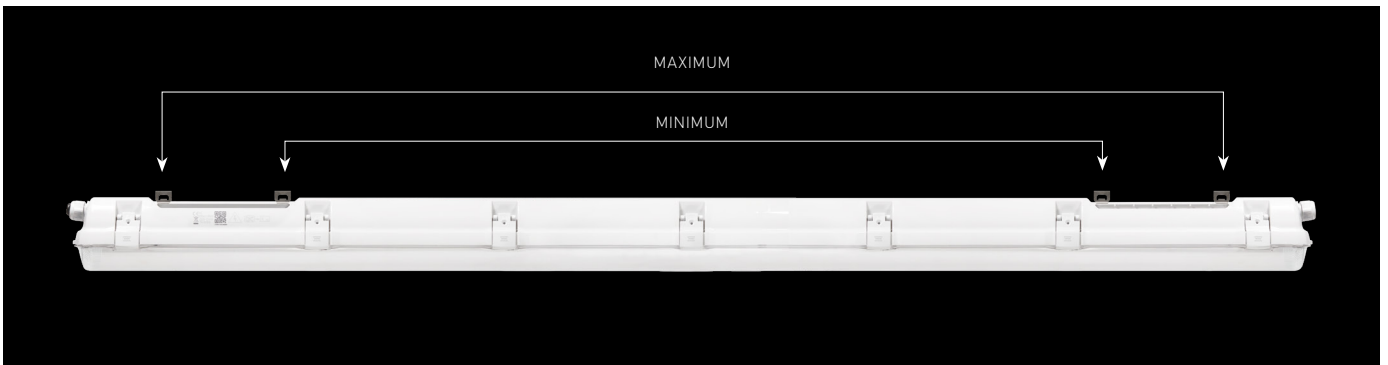
LIGHT FITTING ATTACHMENT

- 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



... 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)**.

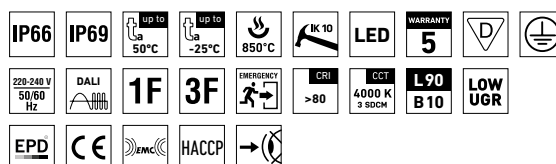
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

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 407.

ADVANTAGES

- Maximum light fitting efficiency: **171 lm/W**
- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 19.8 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
- Lifetime: 100 000 hours / L80B10
- 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, HACCP**



NANOTTICA ES PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-40 °C** for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **171 lm/W**
- **UGR ranging from 19.8 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 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
- 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 $\pm 7.5 \%$

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

NANOTTICA 1.5ft ES

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 nanooptics (standard beam angle), transparent polycarbonate									
NANOTTICA 1.2ft ES PC 1600/840	50	1600	1500	9,1	165	19,8 / 20,7	0,9	615	110 - 370
NANOTTICA 1.2ft ES PC 2200/840	45	2200	2070	12,3	168	20,9 / 21,8	0,9	615	110 - 370
NANOTTICA 1.4ft ES PC 3200/840	50	3190	3000	18,2	165	19,9 / 21,0	1,7	1175	700 - 960
NANOTTICA 1.4ft ES PC 4400/840	45	4380	4120	24,6	167	21,0 / 22,1	1,7	1175	700 - 960
NANOTTICA 1.4ft ES PC 6400/840	45	6220	5850	34,2	171	22,3 / 23,4	1,7	1175	700 - 960
NANOTTICA 1.5ft ES PC 4000/840	50	3940	3700	22,2	167	19,9 / 21,1	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES PC 5500/840	45	5560	5230	30,9	169	21,1 / 22,3	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES PC 8000/840	45	8170	7680	44,8	171	22,5 / 23,6	2,0	1455	970 - 1230

NANOTTICA ES PC

Code	Type	Non-dimmable driver - plastic clips			
		1F	3F	M3hAt	3F M3hAt
102551	NANOTTICA 1.2ft ES PC 1600/840	102562	102573	x	x
102552	NANOTTICA 1.2ft ES PC 2200/840	102563	102574	x	x
102554	NANOTTICA 1.4ft ES PC 3200/840	102565	102576	108578	108580
102555	NANOTTICA 1.4ft ES PC 4400/840	102566	102577	108626	108627
102556	NANOTTICA 1.4ft ES PC 6400/840	102567	102578	108658	108659
102558	NANOTTICA 1.5ft ES PC 4000/840	102569	102580	108610	108611
102559	NANOTTICA 1.5ft ES PC 5500/840	102570	102581	108642	108643
102560	NANOTTICA 1.5ft ES PC 8000/840	102571	102582	108674	108675

NANOTTICA ES PCc

Code	Type	Non-dimmable driver - stainless clips [c]			
		1F	3F	M3hAt	3F M3hAt
102619	NANOTTICA 1.2ft ES PCc 1600/840	102630	102641	x	x
102620	NANOTTICA 1.2ft ES PCc 2200/840	102631	102642	x	x
102622	NANOTTICA 1.4ft ES PCc 3200/840	102633	102644	108582	108584
102623	NANOTTICA 1.4ft ES PCc 4400/840	102634	102645	108628	108629
102624	NANOTTICA 1.4ft ES PCc 6400/840	102635	102646	108660	108661
102626	NANOTTICA 1.5ft ES PCc 4000/840	102637	102648	108612	108613
102627	NANOTTICA 1.5ft ES PCc 5500/840	102638	102649	108644	108645
102628	NANOTTICA 1.5ft ES PCc 8000/840	102639	102650	108676	108677

NANOTTICA ES PC DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
102687	NANOTTICA 1.2ft ES PC 1600/840 DALI	102698	x	x	x
102688	NANOTTICA 1.2ft ES PC 2200/840 DALI	102699	x	x	x
102690	NANOTTICA 1.4ft ES PC 3200/840 DALI	102701	102712	108586	108588
102691	NANOTTICA 1.4ft ES PC 4400/840 DALI	102702	102713	108630	108631
102692	NANOTTICA 1.4ft ES PC 6400/840 DALI	102703	102714	108662	108663
102694	NANOTTICA 1.5ft ES PC 4000/840 DALI	102705	102716	108614	108615
102695	NANOTTICA 1.5ft ES PC 5500/840 DALI	102706	102717	108646	108647
102696	NANOTTICA 1.5ft ES PC 8000/840 DALI	102707	102718	108678	108679

NANOTTICA ES PCc DALI

Digital dimmable driver DALI - stainless clips (c)

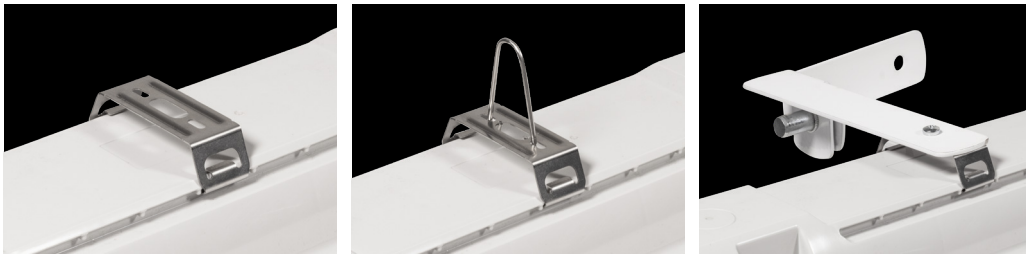
Code	Type	1F	3F	M3hAt	3F M3hAt
102755	NANOTTICA 1.2ft ES PCc 1600/840 DALI	102766	x	x	x
102756	NANOTTICA 1.2ft ES PCc 2200/840 DALI	102767	x	x	x
102758	NANOTTICA 1.4ft ES PCc 3200/840 DALI	102769	102780	108590	108592
102759	NANOTTICA 1.4ft ES PCc 4400/840 DALI	102770	102781	108632	108633
102760	NANOTTICA 1.4ft ES PCc 6400/840 DALI	102771	102782	108664	108665
102762	NANOTTICA 1.5ft ES PCc 4000/840 DALI	102773	102784	108616	108617
102763	NANOTTICA 1.5ft ES PCc 5500/840 DALI	102774	102785	108648	108649
102764	NANOTTICA 1.5ft ES PCc 8000/840 DALI	102775	102786	108680	108681

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
3F - 3-phase 5 core through-wiring in the luminaire
M3hAt - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
3F M3hAt - 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 M3hAt - 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

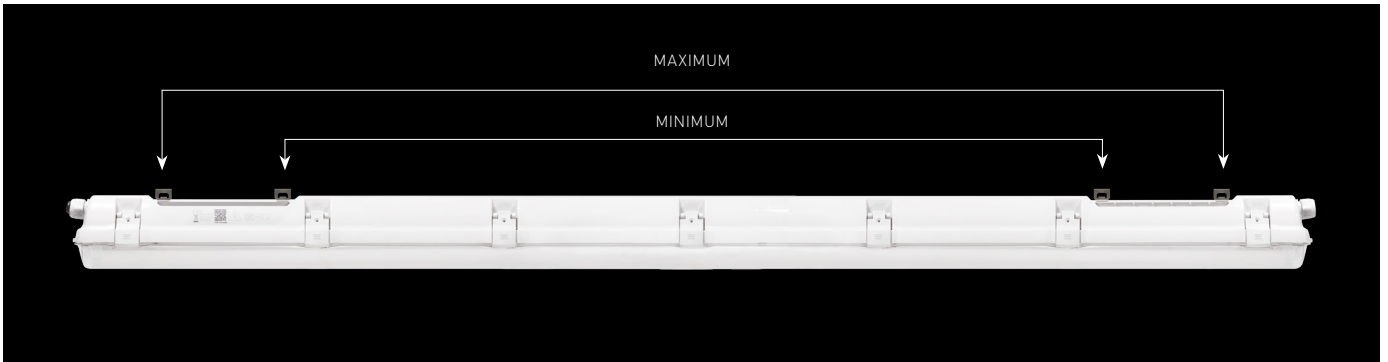
LIGHT FITTING ATTACHMENT

- 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 PC



LIGHT FITTING DETAILED VIEW

NANOTTICA ES PC



NANOTTICA MAX



... for extreme temperatures $-40\text{ }^{\circ}\text{C}$ to $+65\text{ }^{\circ}\text{C}$,
ceiling height from 3.5 to 8 m.

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**.

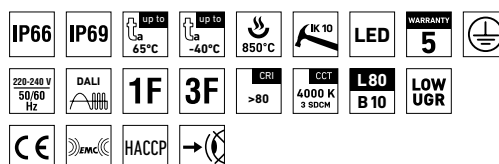
The fitting's **standard beam angle** makes it a great choice for premises with an optimum fitting installation height of **3.5 to 8 m**.

Designed to be installed indoors, in sheltered outdoor spaces as well as in spaces **with extreme ambient temperatures as low as $-40\text{ }^{\circ}\text{C}$ or as high as $+65\text{ }^{\circ}\text{C}$** . 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 407.

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 **$ta = -40\text{ }^{\circ}\text{C}$ to $ta = 65\text{ }^{\circ}\text{C}$**
- 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**

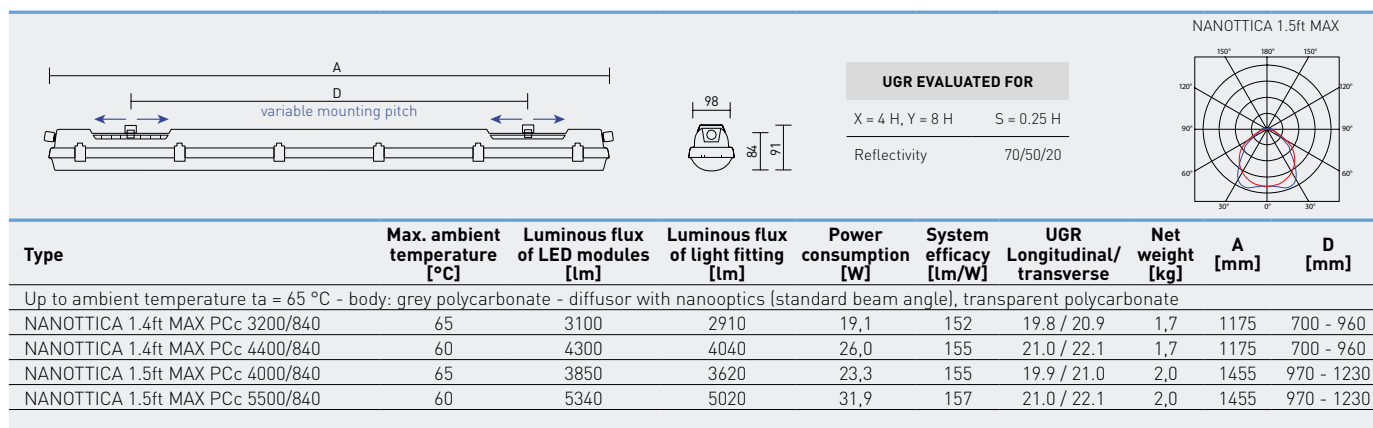


NANOTTICA MAX PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = -40 °C**
- Maximum ambient temperature: **ta = 65 °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 nanooptics** (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 $\pm 7.5\%$



NANOTTICA MAX PCc

Non-dimmable driver - stainless clips (c)

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

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire

- DALI** - version with digital dimmable driver DALI
- DALI 3F** - 3-phase 7 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 MAX



LIGHT FITTING DETAILED VIEW

NANOTTICA MAX



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 nanooptics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

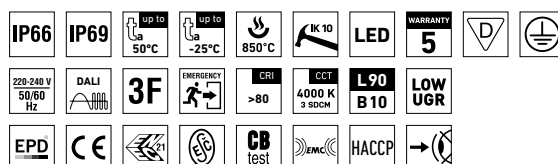
The fitting's **standard beam angle** makes it a great choice for premises with an optimum fitting installation height of **3.5 to 8 m**.

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 407.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 20,0 to 24,6**
- 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
- Lifetime: 100 000 hours / L80B10
- 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 = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **159 lm/W**
- **UGR ranging from 20,0 to 24,6**
- 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 nanooptics** (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 %

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

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 with nanooptics (standard beam angle), transparent polycarbonate									
NANOTTICA 1.2ft VP PC 1600/840	50	1630	1530	10,5	146	20.0 / 21.0	0,9	615	110 - 370
NANOTTICA 1.2ft VP PC 2200/840	45	2360	2220	14,6	152	21.3 / 22.3	0,9	615	110 - 370
NANOTTICA 1.4ft VP PC 3200/840	50	3260	3060	20,1	152	20.1 / 21.3	1,7	1175	700 - 960
NANOTTICA 1.4ft VP PC 4400/840	45	4520	4250	27,3	156	21.3 / 22.4	1,7	1175	700 - 960
NANOTTICA 1.4ft VP PC 6400/840	45	6500	6110	38,5	159	22.5 / 23.7	1,7	1175	700 - 960
NANOTTICA 1.4ft VP PC 8000/840	35	8160	7670	49,0	157	23.3 / 24.5	1,7	1175	700 - 960
NANOTTICA 1.5ft VP PC 4000/840	50	4180	3930	25,3	155	20.3 / 21.4	2,0	1455	970 - 1230
NANOTTICA 1.5ft VP PC 5500/840	45	5590	5250	33,3	158	21.3 / 22.4	2,0	1455	970 - 1230
NANOTTICA 1.5ft VP PC 8000/840	45	8020	7540	47,4	159	22.5 / 23.7	2,0	1455	970 - 1230
NANOTTICA 1.5ft VP PC 10000/840	35	10350	9730	62,9	155	23.4 / 24.6	2,0	1455	970 - 1230

NANOTTICA VP PC

Code	Type
101218	NANOTTICA 1.2ft VP PC 1600/840
101219	NANOTTICA 1.2ft VP PC 2200/840
101221	NANOTTICA 1.4ft VP PC 3200/840
101222	NANOTTICA 1.4ft VP PC 4400/840
101223	NANOTTICA 1.4ft VP PC 6400/840
110253	NANOTTICA 1.4ft VP PC 8000/840
101225	NANOTTICA 1.5ft VP PC 4000/840
101226	NANOTTICA 1.5ft VP PC 5500/840
101227	NANOTTICA 1.5ft VP PC 8000/840
110254	NANOTTICA 1.5ft VP PC 10000/840

Non-dimmable driver - plastic clips

	3F	M3hAt	3F M3hAt
	101229	x	x
	101230	x	x
	101232	108255	108263
	101233	108256	108264
	101234	108257	108265
	110255	x	x
	101236	108259	108267
	101237	108260	108268
	101238	108261	108269
	110256	x	x

NANOTTICA VP PCc

Code	Type
101256	NANOTTICA 1.2ft VP PCc 1600/840
101257	NANOTTICA 1.2ft VP PCc 2200/840
101259	NANOTTICA 1.4ft VP PCc 3200/840
101260	NANOTTICA 1.4ft VP PCc 4400/840
101261	NANOTTICA 1.4ft VP PCc 6400/840
110257	NANOTTICA 1.4ft VP PCc 8000/840
101263	NANOTTICA 1.5ft VP PCc 4000/840
101264	NANOTTICA 1.5ft VP PCc 5500/840
101265	NANOTTICA 1.5ft VP PCc 8000/840
110258	NANOTTICA 1.5ft VP PCc 10000/840

Non-dimmable driver - stainless clips (c)

	3F	M3hAt	3F M3hAt
	101267	x	x
	101268	x	x
	101270	108271	108279
	101271	108272	108280
	101272	108273	108281
	110259	x	x
	101274	108275	108379
	101275	108276	108380
	101276	108277	108381
	110260	x	x

NANOTTICA VP PC DALI

Code	Type
101294	NANOTTICA 1.2ft VP PC 1600/840 DALI
101295	NANOTTICA 1.2ft VP PC 2200/840 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
110261	NANOTTICA 1.4ft VP PC 8000/840 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
110262	NANOTTICA 1.5ft VP PC 10000/840 DALI

Digital dimmable driver DALI - plastic clips

	3F	M3hAt	3F M3hAt
	x	x	x
	x	x	x
	101308	108283	108291
	101309	108284	108292
	101310	108285	108293
	110263	x	x
	101312	108287	108295
	101313	108288	108296
	101314	108289	108297
	110264	x	x

NANOTTICA VP PCc DALI

Code	Type
101332	NANOTTICA 1.2ft VP PCc 1600/840 DALI
101333	NANOTTICA 1.2ft VP PCc 2200/840 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
110265	NANOTTICA 1.4ft VP PCc 8000/840 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
110266	NANOTTICA 1.5ft VP PCc 10000/840 DALI

Digital dimmable driver DALI - stainless clips (c)

	3F	M3hAt	3F M3hAt
	x	x	x
	x	x	x
	101346	108299	108307
	101347	108300	108308
	101348	108301	108309
	110267	x	x
	101350	108303	108311
	101351	108304	108312
	101352	108305	108313
	110268	x	x

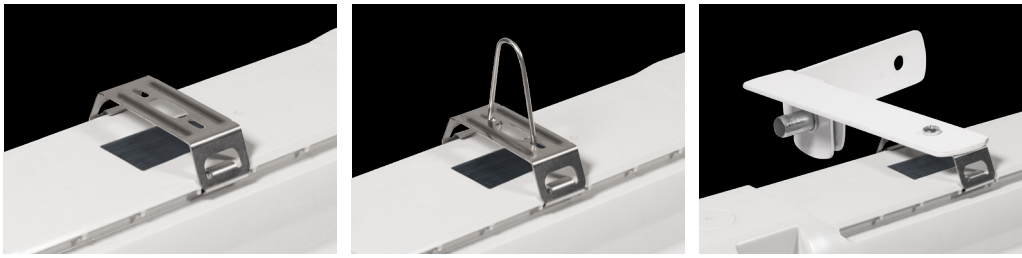
LEGEND

- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 PC

**LIGHT FITTING DETAILED VIEW**

NANOTTICA VP PC



NANOTTICA ABS



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

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**.

Thanks to the MultiLumen function, the luminaire can be adjusted for changing lighting requirements without much effort.

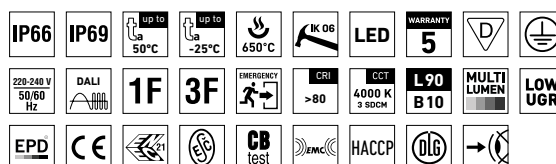
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

Luminaire 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; for more information see page 407.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 19,7 to 24,4**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25\text{ }^\circ\text{C}$ to **$t_a = 50\text{ }^\circ\text{C}$**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- High **chemical resistance**
- **Variable suspension pitch**, optional installation of light fitting even on an existing structure on which the original light fittings were suspended
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- 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**

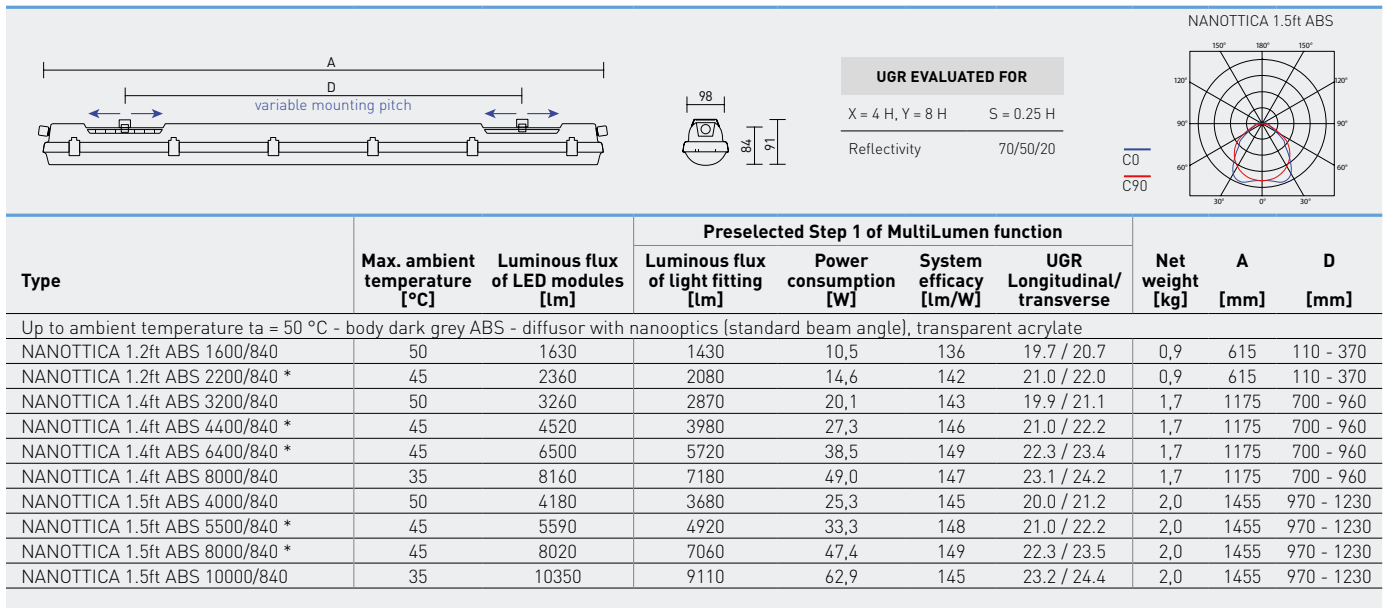


NANOTTICA ABS ABSc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **154 lm/W**
- **UGR ranging from 19,7 to 24,4**
- 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
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- MacAdam = 3 SDCM
- Diffuser: **transparent AC with nanooptics** (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
- 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 %



*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
NANOTTICA 1.2ft ABS 2200/840 ML	1800	13,0	138	1510	11,0	137	1220	9,1	134
NANOTTICA 1.4ft ABS 4400/840 ML	3450	23,3	148	2910	19,5	149	2360	15,8	149
NANOTTICA 1.4ft ABS 6400/840 ML	4960	32,8	151	4200	27,4	153	3410	22,1	154
NANOTTICA 1.5ft ABS 5500/840 ML	4260	28,4	150	3590	23,6	152	2900	19,1	152
NANOTTICA 1.5ft ABS 8000/840 ML	6130	40,4	152	5180	33,6	154	4200	27,2	154

NANOTTICA ABS

Code	Type
100610	NANOTTICA 1.2ft ABS 1600/840
100611	NANOTTICA 1.2ft ABS 2200/840 ML
100613	NANOTTICA 1.4ft ABS 3200/840
100614	NANOTTICA 1.4ft ABS 4400/840 ML
100615	NANOTTICA 1.4ft ABS 6400/840 ML
110205	NANOTTICA 1.4ft ABS 8000/840
100617	NANOTTICA 1.5ft ABS 4000/840
100618	NANOTTICA 1.5ft ABS 5500/840 ML
100619	NANOTTICA 1.5ft ABS 8000/840 ML
110206	NANOTTICA 1.5ft ABS 10000/840

Non-dimmable driver - plastic clips

	1F	3F	M3hAt	3F M3hAt
100621		100632	x	x
100622		100633	x	x
100624		100635	108091	108099
100625		100636	108092	108100
100626		100637	108093	108101
110207		110209	x	x
100628		100639	108095	108103
100629		100640	108096	108104
100630		100641	108097	108105
110208		110210	x	x

NANOTTICA ABSc

Code	Type
100678	NANOTTICA 1.2ft ABSc 1600/840
100679	NANOTTICA 1.2ft ABSc 2200/840 ML
100681	NANOTTICA 1.4ft ABSc 3200/840
100682	NANOTTICA 1.4ft ABSc 4400/840 ML
100683	NANOTTICA 1.4ft ABSc 6400/840 ML
110211	NANOTTICA 1.4ft ABSc 8000/840
100685	NANOTTICA 1.5ft ABSc 4000/840
100686	NANOTTICA 1.5ft ABSc 5500/840 ML
100687	NANOTTICA 1.5ft ABSc 8000/840 ML
110212	NANOTTICA 1.5ft ABSc 10000/840

Non-dimmable driver - stainless clips (c)

	1F	3F	M3hAt	3F M3hAt
	100689	100700	x	x
	100690	100701	x	x
	100692	100703	108107	108115
	100693	100704	108108	108116
	100694	100705	108109	108117
	110213	110215	x	x
	100696	100707	108111	108119
	100697	100708	108112	108120
	100698	100709	108113	108121
	110214	110216	x	x

NANOTTICA ABS DALI

Code	Type
100746	NANOTTICA 1.2ft ABS 1600/840 DALI
100747	NANOTTICA 1.2ft ABS 2200/840 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
110217	NANOTTICA 1.4ft ABS 8000/840 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
110218	NANOTTICA 1.5ft ABS 10000/840 DALI

Digital dimmable driver DALI - plastic clips

	1F	3F	M3hAt	3F M3hAt
	100757	x	x	x
	100758	x	x	x
	100760	100771	108123	108131
	100761	100772	108124	108132
	100762	100773	108125	108133
	110219	110221	x	x
	100764	100775	108127	108135
	100765	100776	108128	108136
	100766	100777	108129	108137
	110220	110222	x	x

NANOTTICA ABSc DALI

Code	Type
100814	NANOTTICA 1.2ft ABSc 1600/840 DALI
100815	NANOTTICA 1.2ft ABSc 2200/840 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
110223	NANOTTICA 1.4ft ABSc 8000/840 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
110224	NANOTTICA 1.5ft ABSc 10000/840 DALI

Digital dimmable driver DALI - stainless clips (c)

	1F	3F	M3hAt	3F M3hAt
	100825	x	x	x
	100826	x	x	x
	100828	100839	108139	108147
	100829	100840	108140	108148
	100830	100841	108141	108149
	110225	110227	x	x
	100832	100843	108143	108151
	100833	100844	108144	108152
	100834	100845	108145	108153
	110226	110228	x	x

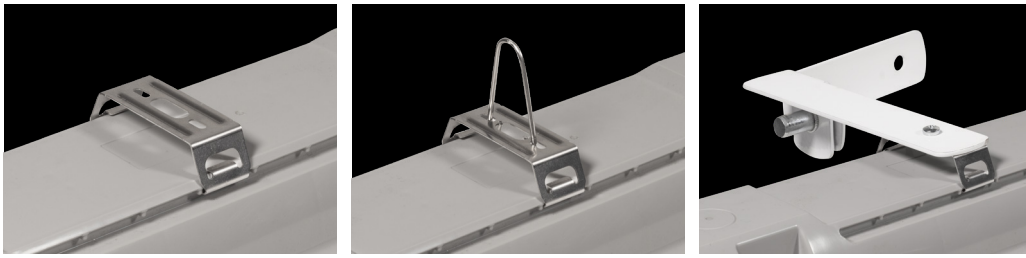
LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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

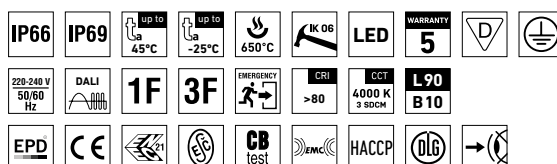
The fixture boasts a **low unified glare rating with UGR values** its patented nanooptics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

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 407.

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 21,8 to 25,9**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from **ta = -25°C to ta = 45°C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- 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: **ESĈ, ENEC, CB, DLG, HACCP**

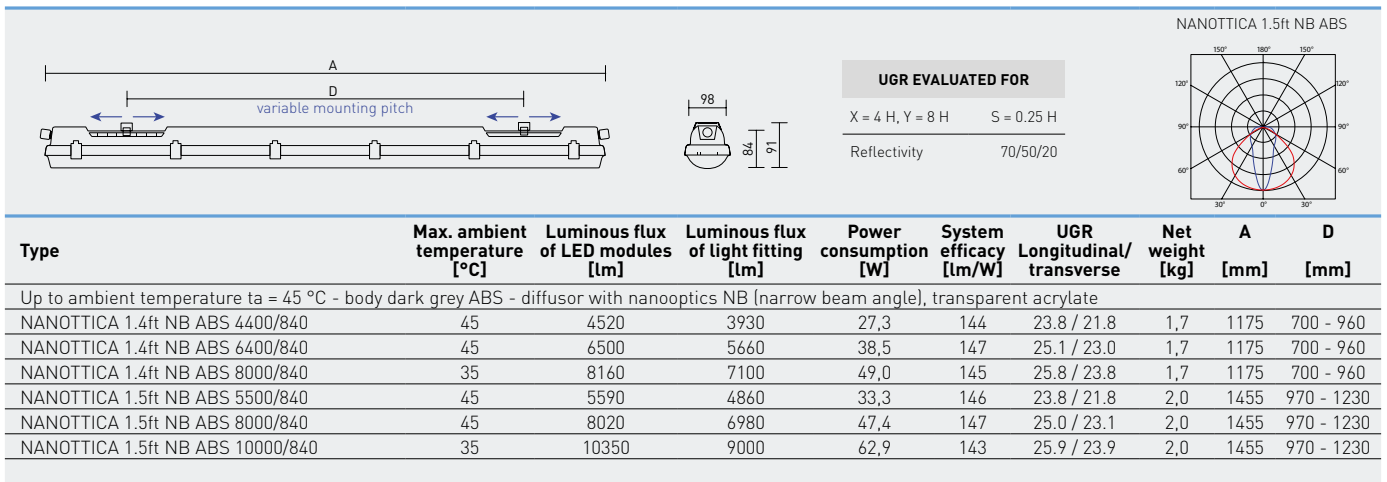


NANOTTICA NB ABS, ABSc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 45 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **147 lm/W**
- **UGR ranging from 21,8 to 25,9**
- 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
- 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 %



NANOTTICA NB ABS

Code	Type
100881	NANOTTICA 1.4ft NB ABS 4400/840
100882	NANOTTICA 1.4ft NB ABS 6400/840
110229	NANOTTICA 1.4ft NB ABS 8000/840
100883	NANOTTICA 1.5ft NB ABS 5500/840
100884	NANOTTICA 1.5ft NB ABS 8000/840
110230	NANOTTICA 1.5ft NB ABS 10000/840

Non-dimmable driver - plastic clips

	1F	3F	M3hAt	3F M3hAt
	100885	100889	108154	108158
	100886	100890	108155	108159
	110231	110233	x	x
	100887	100891	108156	108160
	100888	100892	108157	108161
	110232	110234	x	x

NANOTTICA NB ABSc

Code	Type
100909	NANOTTICA 1.4ft NB ABSc 4400/840
100910	NANOTTICA 1.4ft NB ABSc 6400/840
110235	NANOTTICA 1.4ft NB ABSc 8000/840
100911	NANOTTICA 1.5ft NB ABSc 5500/840
100912	NANOTTICA 1.5ft NB ABSc 8000/840
110236	NANOTTICA 1.5ft NB ABSc 10000/840

Non-dimmable driver - stainless clips [c]

	1F	3F	M3hAt	3F M3hAt
	100913	100917	108162	108166
	100914	100918	108163	108167
	110237	110239	x	x
	100915	100919	108164	108168
	100916	100920	108165	108169
	110238	110240	x	x

NANOTTICA NB ABS DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
100937	NANOTTICA 1.4ft NB ABS 4400/840 DALI	100941	100945	108170	108174
100938	NANOTTICA 1.4ft NB ABS 6400/840 DALI	100942	100946	108171	108175
110241	NANOTTICA 1.4ft NB ABS 8000/840 DALI	110243	110245	x	x
100939	NANOTTICA 1.5ft NB ABS 5500/840 DALI	100943	100947	108172	108176
100940	NANOTTICA 1.5ft NB ABS 8000/840 DALI	100944	100948	108173	108177
110242	NANOTTICA 1.5ft NB ABS 10000/840 DALI	110244	110246	x	x

NANOTTICA NB ABSc DALI

Digital dimmable driver DALI - stainless clips (c)

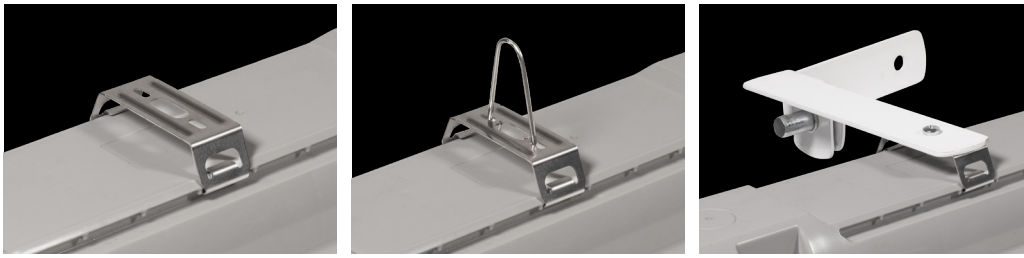
Code	Type	1F	3F	M3hAt	3F M3hAt
100965	NANOTTICA 1.4ft NB ABSc 4400/840 DALI	100969	100973	108178	108182
100966	NANOTTICA 1.4ft NB ABSc 6400/840 DALI	100970	100974	108179	108183
110247	NANOTTICA 1.4ft NB ABSc 8000/840 DALI	110249	110251	x	x
100967	NANOTTICA 1.5ft NB ABSc 5500/840 DALI	100971	100975	108180	108184
100968	NANOTTICA 1.5ft NB ABSc 8000/840 DALI	100972	100976	108181	108185
110248	NANOTTICA 1.5ft NB ABSc 10000/840 DALI	110250	110252	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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

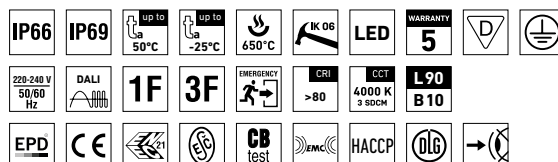
The fixture boasts a **low unified glare rating with UGR values** its patented nanooptics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

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 407.

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 21,3 to 25,0**
- 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
- Lifetime: 100 000 hours / L80B10
- 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**

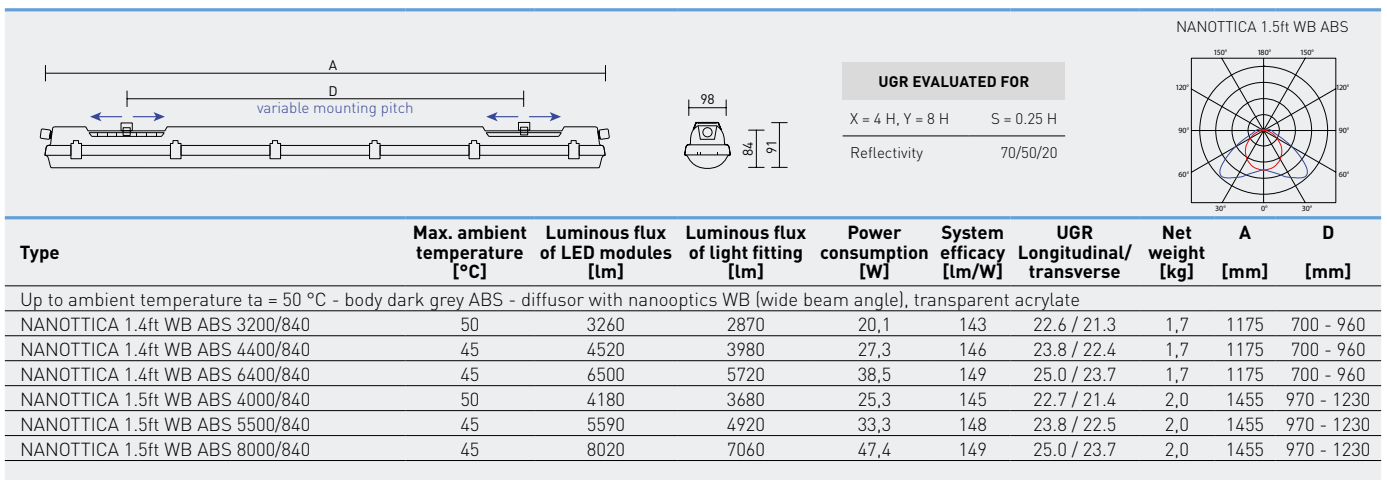


NANOTTICA WB ABS, ABSc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **149 lm/W**
- **UGR ranging from 21,3 to 25,0**
- 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
- 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 %



NANOTTICA WB ABS

Code	Type
100994	NANOTTICA 1.4ft WB ABS 3200/840
100995	NANOTTICA 1.4ft WB ABS 4400/840
100996	NANOTTICA 1.4ft WB ABS 6400/840
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	M3hAt	3F M3hAt
	101002	101010	108187	108195
	101003	101011	108188	108196
	101004	101012	108189	108197
	101006	101014	108191	108199
	101007	101015	108192	108200
	101008	101016	108193	108201

NANOTTICA WB ABSc

Code	Type
101050	NANOTTICA 1.4ft WB ABSc 3200/840
101051	NANOTTICA 1.4ft WB ABSc 4400/840
101052	NANOTTICA 1.4ft WB ABSc 6400/840
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	M3hAt	3F M3hAt
	101058	101066	108203	108211
	101059	101067	108204	108212
	101060	101068	108205	108213
	101062	101070	108207	108215
	101063	101071	108208	108216
	101064	101072	108209	108217

NANOTTICA WB ABS DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
101106	NANOTTICA 1.4ft WB ABS 3200/840 DALI	101114	101122	108219	108227
101107	NANOTTICA 1.4ft WB ABS 4400/840 DALI	101115	101123	108220	108228
101108	NANOTTICA 1.4ft WB ABS 6400/840 DALI	101116	101124	108221	108229
101110	NANOTTICA 1.5ft WB ABS 4000/840 DALI	101118	101126	108223	108231
101111	NANOTTICA 1.5ft WB ABS 5500/840 DALI	101119	101127	108224	108232
101112	NANOTTICA 1.5ft WB ABS 8000/840 DALI	101120	101128	108225	108233

NANOTTICA WB ABSc DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
101162	NANOTTICA 1.4ft WB ABSc 3200/840 DALI	101170	101178	108235	108243
101163	NANOTTICA 1.4ft WB ABSc 4400/840 DALI	101171	101179	108236	108244
101164	NANOTTICA 1.4ft WB ABSc 6400/840 DALI	101172	101180	108237	108245
101166	NANOTTICA 1.5ft WB ABSc 4000/840 DALI	101174	101182	108239	108247
101167	NANOTTICA 1.5ft WB ABSc 5500/840 DALI	101175	101183	108240	108248
101168	NANOTTICA 1.5ft WB ABSc 8000/840 DALI	101176	101184	108241	108249

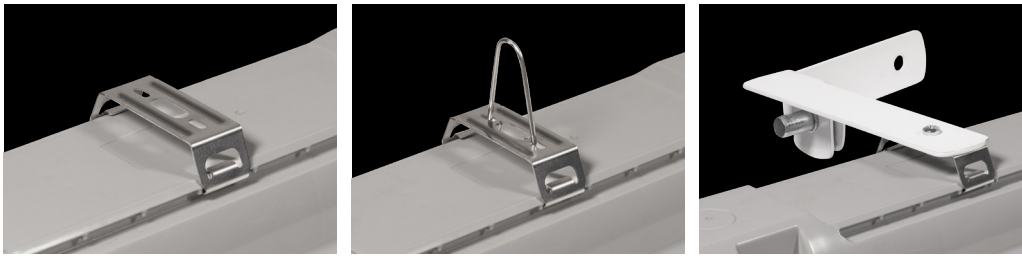
LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 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)**.

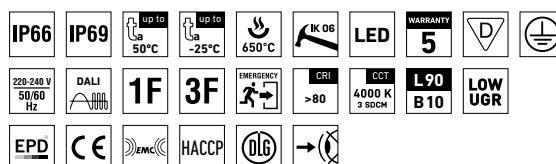
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

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, 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 407.

ADVANTAGES

- Maximum light fitting efficiency: **160 lm/W**
- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 19,5 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
- Lifetime: 100 000 hours / L80B10
- 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, DLG, HACCP**



NANOTTICA ES ABS, ABSc



TECHNICKÝ POPIS

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **160 lm/W**
- **UGR ranging from 19,5 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 nanooptics** (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
- 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 %

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

NANOTTICA 1.5ft ES 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 = 50 °C - body dark grey ABS - diffuser with nanooptics [standard beam angle], transparent acrylate									
NANOTTICA 1.2ft ES ABS 1600/840	50	1600	1410	9,1	155	19,5 / 20,5	0,9	615	110 - 370
NANOTTICA 1.2ft ES ABS 2200/840	45	2200	1940	12,3	158	20,6 / 21,6	0,9	615	110 - 370
NANOTTICA 1.4ft ES ABS 3200/840	50	3190	2810	18,2	154	19,7 / 20,8	1,7	1175	700 - 960
NANOTTICA 1.4ft ES ABS 4400/840	45	4380	3850	24,6	157	20,8 / 21,9	1,7	1175	700 - 960
NANOTTICA 1.4ft ES ABS 6400/840	45	6220	5470	34,2	160	22,0 / 23,1	1,7	1175	700 - 960
NANOTTICA 1.5ft ES ABS 4000/840	50	3940	3470	22,2	156	19,7 / 20,8	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES ABS 5500/840	45	5560	4890	30,9	158	20,9 / 22,0	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES ABS 8000/840	45	8170	7190	44,8	160	22,2 / 23,4	2,0	1455	970 - 1230

NANOTTICA ES ABS

Code	Type
102823	NANOTTICA 1.2ft ES ABS 1600/840
102824	NANOTTICA 1.2ft ES ABS 2200/840
102826	NANOTTICA 1.4ft ES ABS 3200/840
102827	NANOTTICA 1.4ft ES ABS 4400/840
102828	NANOTTICA 1.4ft ES ABS 6400/840
102830	NANOTTICA 1.5ft ES ABS 4000/840
102831	NANOTTICA 1.5ft ES ABS 5500/840
102832	NANOTTICA 1.5ft ES ABS 8000/840

Non-dimmable driver - plastic clips

	1F	3F	M3hAt	3F M3hAt
102834		102845	x	x
102835		102846	x	x
102837		102848	108594	108596
102838		102849	108634	108635
102839		102850	108666	108667
102841		102852	108618	108619
102842		102853	108650	108651
102843		102854	108682	108683

NANOTTICA ES ABSc

Code	Type
102891	NANOTTICA 1.2ft ES ABSc 1600/840
102892	NANOTTICA 1.2ft ES ABSc 2200/840
102894	NANOTTICA 1.4ft ES ABSc 3200/840
102895	NANOTTICA 1.4ft ES ABSc 4400/840
102896	NANOTTICA 1.4ft ES ABSc 6400/840
102898	NANOTTICA 1.5ft ES ABSc 4000/840
102899	NANOTTICA 1.5ft ES ABSc 5500/840
102900	NANOTTICA 1.5ft ES ABSc 8000/840

Non-dimmable driver - stainless clips [c]

	1F	3F	M3hAt	3F M3hAt
102902		102913	x	x
102903		102914	x	x
102905		102916	108598	108600
102906		102917	108636	108637
102907		102918	108668	108669
102909		102920	108620	108621
102910		102921	108652	108653
102911		102922	108684	108685

NANOTTICA ES ABS DALI

Code	Type
102959	NANOTTICA 1.2ft ES ABS 1600/840 DALI
102960	NANOTTICA 1.2ft ES ABS 2200/840 DALI
102962	NANOTTICA 1.4ft ES ABS 3200/840 DALI
102963	NANOTTICA 1.4ft ES ABS 4400/840 DALI
102964	NANOTTICA 1.4ft ES ABS 6400/840 DALI
102966	NANOTTICA 1.5ft ES ABS 4000/840 DALI
102967	NANOTTICA 1.5ft ES ABS 5500/840 DALI
102968	NANOTTICA 1.5ft ES ABS 8000/840 DALI

Digital dimmable driver DALI - plastic clips

	1F	3F	M3hAt	3F M3hAt
	102970	x	x	x
	102971	x	x	x
	102973	102984	108602	108604
	102974	102985	108638	108639
	102975	102986	108670	108671
	102977	102988	108622	108623
	102978	102989	108654	108655
	102979	102990	108686	108687

NANOTTICA ES ABSc DALI

Code	Type
103027	NANOTTICA 1.2ft ES ABSc 1600/840 DALI
103028	NANOTTICA 1.2ft ES ABSc 2200/840 DALI
103030	NANOTTICA 1.4ft ES ABSc 3200/840 DALI
103031	NANOTTICA 1.4ft ES ABSc 4400/840 DALI
103032	NANOTTICA 1.4ft ES ABSc 6400/840 DALI
103034	NANOTTICA 1.5ft ES ABSc 4000/840 DALI
103035	NANOTTICA 1.5ft ES ABSc 5500/840 DALI
103036	NANOTTICA 1.5ft ES ABSc 8000/840 DALI

Digital dimmable driver DALI - stainless clips (c)

	1F	3F	M3hAt	3F M3hAt
	103038	x	x	x
	103039	x	x	x
	103041	103052	108606	108608
	103042	103053	108640	108641
	103043	103054	108672	108673
	103045	103056	108624	108625
	103046	103057	108656	108657
	103047	103058	108688	108689

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 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 nanooptics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

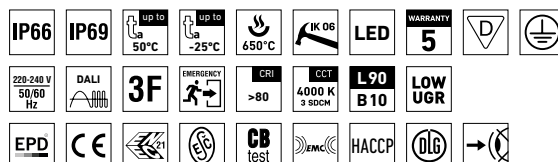
The fitting's **standard beam angle** makes it a great choice for premises with an optimum fitting installation height of **3.5 to 8 m**.

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 407.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 19,7 to 24,4**
- 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
- Lifetime: 100 000 hours / L80B10
- 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 = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **149 lm/W**
- **UGR ranging from 19,7 to 24,4**
- 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 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 %

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

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 with nanooptics [standard beam angle], transparent acrylate									
NANOTTICA 1.2ft VP ABS 1600/840	50	1630	1430	10,5	136	19.7 / 20.7	0,9	615	110 - 370
NANOTTICA 1.2ft VP ABS 2200/840	45	2360	2080	14,6	142	21.0 / 22.0	0,9	615	110 - 370
NANOTTICA 1.4ft VP ABS 3200/840	50	3260	2870	20,1	143	19.9 / 21.1	1,7	1175	700 - 960
NANOTTICA 1.4ft VP ABS 4400/840	45	4520	3980	27,3	146	21.0 / 22.2	1,7	1175	700 - 960
NANOTTICA 1.4ft VP ABS 6400/840	45	6500	5720	38,5	149	22.3 / 23.4	1,7	1175	700 - 960
NANOTTICA 1.4ft VP ABS 8000/840	35	8160	7180	49,0	147	23.1 / 24.2	1,7	1175	700 - 960
NANOTTICA 1.5ft VP ABS 4000/840	50	4180	3680	25,3	145	20.0 / 21.2	2,0	1455	970 - 1230
NANOTTICA 1.5ft VP ABS 5500/840	45	5590	4920	33,3	148	21.0 / 22.2	2,0	1455	970 - 1230
NANOTTICA 1.5ft VP ABS 8000/840	45	8020	7060	47,4	149	22.3 / 23.5	2,0	1455	970 - 1230
NANOTTICA 1.5ft VP ABS 10000/840	35	10350	9110	62,9	145	23.2 / 24.4	2,0	1455	970 - 1230

NANOTTICA VP ABS

Code	Type
101370	NANOTTICA 1.2ft VP ABS 1600/840
101371	NANOTTICA 1.2ft VP ABS 2200/840
101373	NANOTTICA 1.4ft VP ABS 3200/840
101374	NANOTTICA 1.4ft VP ABS 4400/840
101375	NANOTTICA 1.4ft VP ABS 6400/840
110269	NANOTTICA 1.4ft VP ABS 8000/840
101377	NANOTTICA 1.5ft VP ABS 4000/840
101378	NANOTTICA 1.5ft VP ABS 5500/840
101379	NANOTTICA 1.5ft VP ABS 8000/840
110270	NANOTTICA 1.5ft VP ABS 10000/840

Non-dimmable driver - plastic clips

	3F	M3hAt	3F M3hAt
	101381	x	x
	101382	x	x
	101384	108315	108323
	101385	108316	108324
	101386	108317	108325
	110271	x	x
	101388	108319	108327
	101389	108320	108328
	101390	108321	108329
	110272	x	x

NANOTTICA VP ABSc

Code	Type
101408	NANOTTICA 1.2ft VP ABSc 1600/840
101409	NANOTTICA 1.2ft VP ABSc 2200/840
101411	NANOTTICA 1.4ft VP ABSc 3200/840
101412	NANOTTICA 1.4ft VP ABSc 4400/840
101413	NANOTTICA 1.4ft VP ABSc 6400/840
110273	NANOTTICA 1.4ft VP ABSc 8000/840
101415	NANOTTICA 1.5ft VP ABSc 4000/840
101416	NANOTTICA 1.5ft VP ABSc 5500/840
101417	NANOTTICA 1.5ft VP ABSc 8000/840
110274	NANOTTICA 1.5ft VP ABSc 10000/840

Non-dimmable driver - stainless clips [c]

	3F	M3hAt	3F M3hAt
	101419	x	x
	101420	x	x
	101422	108331	108339
	101423	108332	108340
	101424	108333	108341
	110275	x	x
	101426	108335	108343
	101427	108336	108344
	101428	108337	108345
	110276	x	x

NANOTTICA VP ABS DALI

Code	Type
101446	NANOTTICA 1.2ft VP ABS 1600/840 DALI
101447	NANOTTICA 1.2ft VP ABS 2200/840 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
110277	NANOTTICA 1.4ft VP ABS 8000/840 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
110278	NANOTTICA 1.5ft VP ABS 10000/840 DALI

Digital dimmable driver DALI - plastic clips

	3F	M3hAt	3F M3hAt
	x	x	x
	x	x	x
	101460	108347	108355
	101461	108348	108356
	101462	108349	108357
	110279	x	x
	101464	108351	108359
	101465	108352	108360
	101466	108353	108361
	110280	x	x

NANOTTICA VP ABSc DALI

Code	Type
101484	NANOTTICA 1.2ft VP ABSc 1600/840 DALI
101485	NANOTTICA 1.2ft VP ABSc 2200/840 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
110281	NANOTTICA 1.4ft VP ABSc 8000/840 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
110282	NANOTTICA 1.5ft VP ABSc 10000/840 DALI

Digital dimmable driver DALI - stainless clips (c)

	3F	M3hAt	3F M3hAt
	x	x	x
	x	x	x
	101498	108363	108371
	101499	108364	108372
	101500	108365	108373
	110283	x	x
	101502	108367	108375
	101503	108368	108376
	101504	108369	108377
	110284	x	x

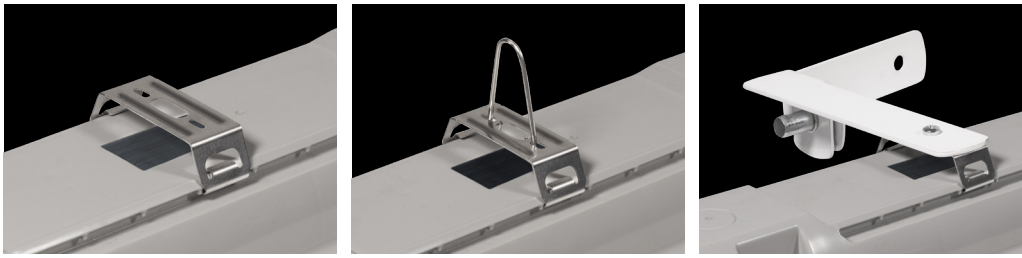
LEGEND

- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

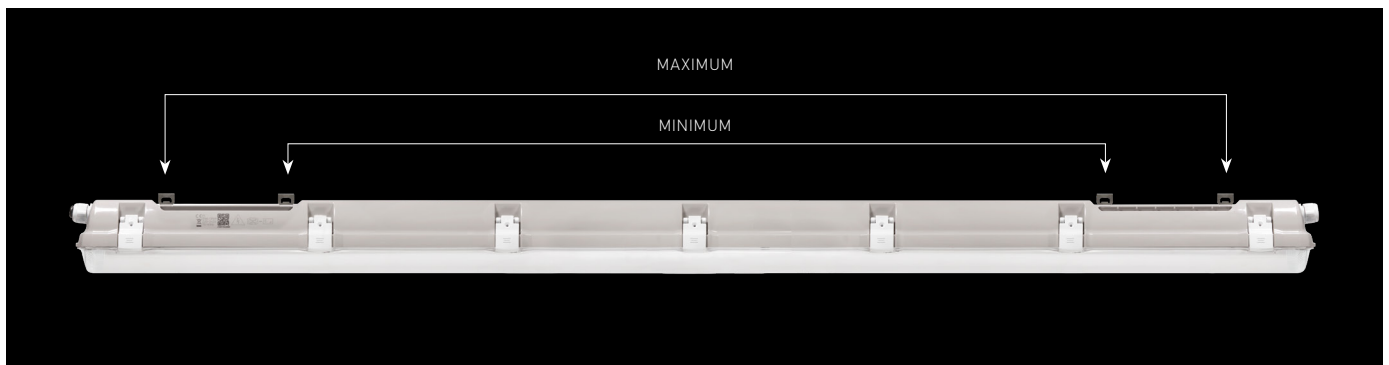
- DALI** - version with digital dimmable driver DALI
- DALI 3F** - 3-phase 7 core through-wiring in the luminaire
- DALI 3F M3hAt** - 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

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 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**.

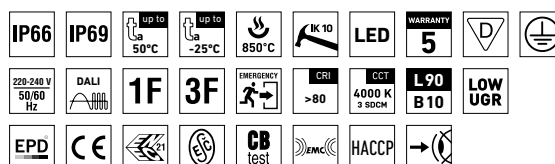
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

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 407.

ADVANTAGES

- Maximum light fitting efficiency: **159 lm/W**
- Patented optics ensures absolute control over light beam distribution
- Exceptionally low UGR values **range from 17,9 to 23,5**
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from **ta = -25°C to ta = 50°C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- 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**

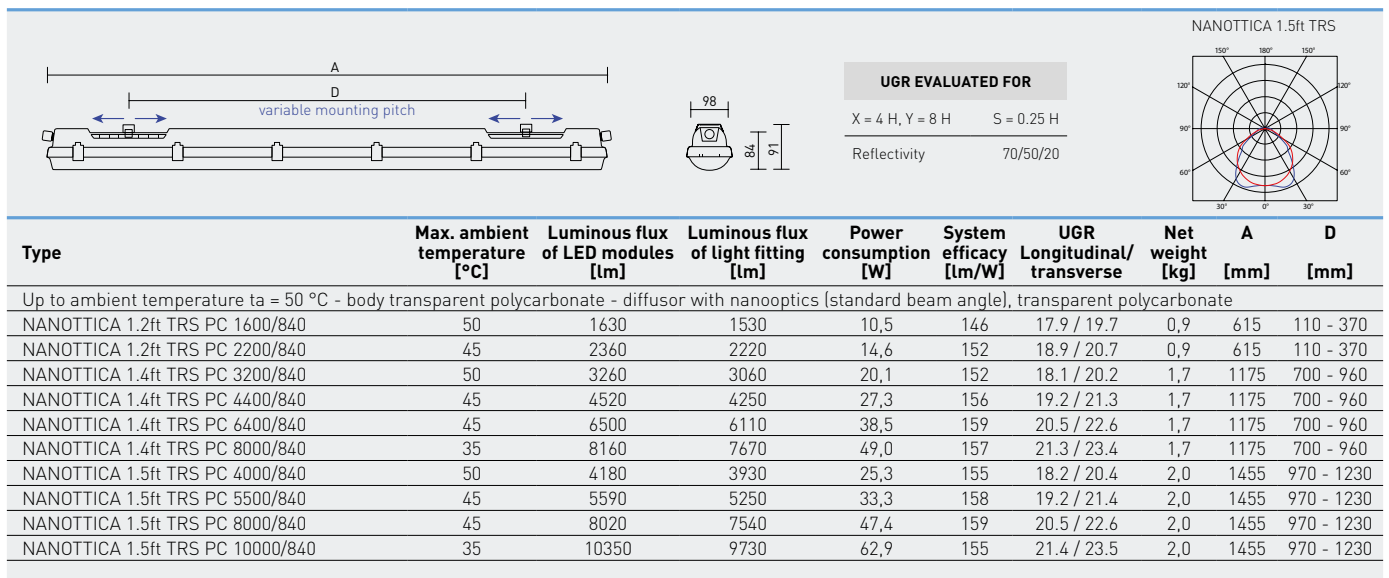


NANOTTICA TRS PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **159 lm/W**
- **UGR ranging from 17,9 to 23,5**
- 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 nanooptics** (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
- 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 %



NANOTTICA TRS PC

Code	Type
103119	NANOTTICA 1.2ft TRS PC 1600/840
103120	NANOTTICA 1.2ft TRS PC 2200/840
101545	NANOTTICA 1.4ft TRS PC 3200/840
101546	NANOTTICA 1.4ft TRS PC 4400/840
101547	NANOTTICA 1.4ft TRS PC 6400/840
110133	NANOTTICA 1.4ft TRS PC 8000/840
101549	NANOTTICA 1.5ft TRS PC 4000/840
101550	NANOTTICA 1.5ft TRS PC 5500/840
101551	NANOTTICA 1.5ft TRS PC 8000/840
110134	NANOTTICA 1.5ft TRS PC 10000/840

Non-dimmable driver - plastic clips

	1F	3F	M3hAt	3F M3hAt
	101553	101564	x	x
	101554	101565	x	x
	101556	101567	108383	108391
	101557	101568	108384	108392
	101558	101569	108385	108393
	110135	110137	x	x
	101560	101571	108387	108395
	101561	101572	108388	108396
	101562	101573	108389	108397
	110136	110138	x	x

NANOTTICA TRS PCc

Code	Type
101610	NANOTTICA 1.2ft TRS PCc 1600/840
101611	NANOTTICA 1.2ft TRS PCc 2200/840
101613	NANOTTICA 1.4ft TRS PCc 3200/840
101614	NANOTTICA 1.4ft TRS PCc 4400/840
101615	NANOTTICA 1.4ft TRS PCc 6400/840
110139	NANOTTICA 1.4ft TRS PCc 8000/840
101617	NANOTTICA 1.5ft TRS PCc 4000/840
101618	NANOTTICA 1.5ft TRS PCc 5500/840
101619	NANOTTICA 1.5ft TRS PCc 8000/840
110140	NANOTTICA 1.5ft TRS PCc 10000/840

Non-dimmable driver - stainless clips [c]

	1F	3F	M3hAt	3F M3hAt
	101621	101632	x	x
	101622	101633	x	x
	101624	101635	108399	108407
	101625	101636	108400	108408
	101626	101637	108401	108409
	110141	110143	x	x
	101628	101639	108403	108443
	101629	101640	108404	108444
	101630	101641	108405	108445
	110142	110144	x	x

NANOTTICA TRS PC DALI

Code	Type
101678	NANOTTICA 1.2ft TRS PC 1600/840 DALI
101679	NANOTTICA 1.2ft TRS PC 2200/840 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
110145	NANOTTICA 1.4ft TRS PC 8000/840 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
110146	NANOTTICA 1.5ft TRS PC 10000/840 DALI

Digital dimmable driver DALI - plastic clips

	1F	3F	M3hAt	3F M3hAt
	101689	x	x	x
	101690	x	x	x
	101692	101703	108411	108419
	101693	101704	108412	108420
	101694	101705	108413	108421
	110147	110149	x	x
	101696	101707	108415	108423
	101697	101708	108416	108424
	101698	101709	108417	108425
	110148	110150	x	x

NANOTTICA TRS PCc DALI

Code	Type
101746	NANOTTICA 1.2ft TRS PCc 1600/840 DALI
101747	NANOTTICA 1.2ft TRS PCc 2200/840 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
110151	NANOTTICA 1.4ft TRS PCc 8000/840 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
110152	NANOTTICA 1.5ft TRS PCc 10000/840 DALI

Digital dimmable driver DALI - stainless clips (c)

	1F	3F	M3hAt	3F M3hAt
	101757	x	x	x
	101758	x	x	x
	101760	101771	108427	108435
	101761	101772	108428	108436
	101762	101773	108429	108437
	110153	110155	x	x
	101764	101775	108431	108439
	101765	101776	108432	108440
	101766	101777	108433	108441
	110154	110156	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 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)**.

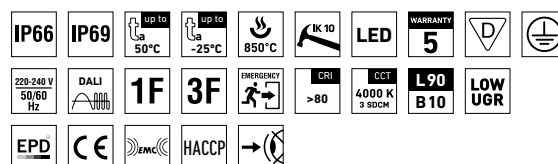
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

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 407.

ADVANTAGES

- Maximum light fitting efficiency: **171 lm/W**
- Patented optics ensures absolute control over light beam distribution
- Exceptionally low UGR values **range from 17,7 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
- Lifetime: 100 000 hours / L80B10
- 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, HACCP**



NANOTTICA ES TRS PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **171 lm/W**
- **UGR ranging from 17.7 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 nanooptics** (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
- 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 %

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

NANOTTICA 1.5ft ES TRS

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 - diffusor with nanooptics (standard beam angle), transparent polycarbonate									
NANOTTICA 1.2ft ES TRS PC 1600/840	50	1600	1500	9,1	165	17,7 / 19,5	0,9	615	110 - 370
NANOTTICA 1.2ft ES TRS PC 2200/840	45	2200	2070	12,3	168	18,8 / 20,6	0,9	615	110 - 370
NANOTTICA 1.4ft ES TRS PC 3200/840	50	3190	3000	18,2	165	17,9 / 20,0	1,7	1175	700 - 960
NANOTTICA 1.4ft ES TRS PC 4400/840	45	4380	4120	24,6	167	19,0 / 21,1	1,7	1175	700 - 960
NANOTTICA 1.4ft ES TRS PC 6400/840	45	6220	5850	34,2	171	20,3 / 22,3	1,7	1175	700 - 960
NANOTTICA 1.5ft ES TRS PC 4000/840	50	3940	3700	22,2	167	17,9 / 20,0	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES TRS PC 5500/840	45	5560	5230	30,9	169	19,1 / 21,2	2,0	1455	970 - 1230
NANOTTICA 1.5ft ES TRS PC 8000/840	45	8170	7680	44,8	171	20,5 / 22,5	2,0	1455	970 - 1230

NANOTTICA ES TRS PC

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
103135	NANOTTICA 1.2ft ES TRS PC 1600/840	103146	103157	x	x
103136	NANOTTICA 1.2ft ES TRS PC 2200/840	103147	103158	x	x
103138	NANOTTICA 1.4ft ES TRS PC 3200/840	103149	103160	108691	108699
103139	NANOTTICA 1.4ft ES TRS PC 4400/840	103150	103161	108692	108700
103140	NANOTTICA 1.4ft ES TRS PC 6400/840	103151	103162	108693	108701
103142	NANOTTICA 1.5ft ES TRS PC 4000/840	103153	103164	108695	108703
103143	NANOTTICA 1.5ft ES TRS PC 5500/840	103154	103165	108696	108704
103144	NANOTTICA 1.5ft ES TRS PC 8000/840	103155	103166	108697	108705

NANOTTICA ES TRS PCc

Non-dimmable driver - stainless clips [c]

Code	Type	1F	3F	M3hAt	3F M3hAt
103203	NANOTTICA 1.2ft ES TRS PCc 1600/840	103214	103225	x	x
103204	NANOTTICA 1.2ft ES TRS PCc 2200/840	103215	103226	x	x
103206	NANOTTICA 1.4ft ES TRS PCc 3200/840	103217	103228	108707	108715
103207	NANOTTICA 1.4ft ES TRS PCc 4400/840	103218	103229	108708	108716
103208	NANOTTICA 1.4ft ES TRS PCc 6400/840	103219	103230	108709	108717
103210	NANOTTICA 1.5ft ES TRS PCc 4000/840	103221	103232	108711	108719
103211	NANOTTICA 1.5ft ES TRS PCc 5500/840	103222	103233	108712	108720
103212	NANOTTICA 1.5ft ES TRS PCc 8000/840	103223	103234	108713	108721

NANOTTICA ES TRS PC DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
103271	NANOTTICA 1.2ft ES TRS PC 1600/840 DALI	103282	x	x	x
103272	NANOTTICA 1.2ft ES TRS PC 2200/840 DALI	103283	x	x	x
103274	NANOTTICA 1.4ft ES TRS PC 3200/840 DALI	103285	103296	108723	108731
103275	NANOTTICA 1.4ft ES TRS PC 4400/840 DALI	103286	103297	108724	108732
103276	NANOTTICA 1.4ft ES TRS PC 6400/840 DALI	103287	103298	108725	108733
103278	NANOTTICA 1.5ft ES TRS PC 4000/840 DALI	103289	103300	108727	108735
103279	NANOTTICA 1.5ft ES TRS PC 5500/840 DALI	103290	103301	108728	108736
103280	NANOTTICA 1.5ft ES TRS PC 8000/840 DALI	103291	103302	108729	108737

NANOTTICA ES TRS PCc DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
103339	NANOTTICA 1.2ft ES TRS PCc 1600/840 DALI	103350	x	x	x
103340	NANOTTICA 1.2ft ES TRS PCc 2200/840 DALI	103351	x	x	x
103342	NANOTTICA 1.4ft ES TRS PCc 3200/840 DALI	103353	103364	108739	108747
103343	NANOTTICA 1.4ft ES TRS PCc 4400/840 DALI	103354	103365	108740	108748
103344	NANOTTICA 1.4ft ES TRS PCc 6400/840 DALI	103355	103366	108741	108749
103346	NANOTTICA 1.5ft ES TRS PCc 4000/840 DALI	103357	103368	108743	108751
103347	NANOTTICA 1.5ft ES TRS PCc 5500/840 DALI	103358	103369	108744	108752
103348	NANOTTICA 1.5ft ES TRS PCc 8000/840 DALI	103359	103370	108745	108753

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 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 nanooptics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

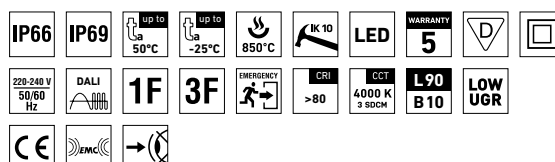
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

Its **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 407.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 20,0 to 23,7**
- 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
- Lifetime: 100 000 hours / L80B10
- 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, 6500 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

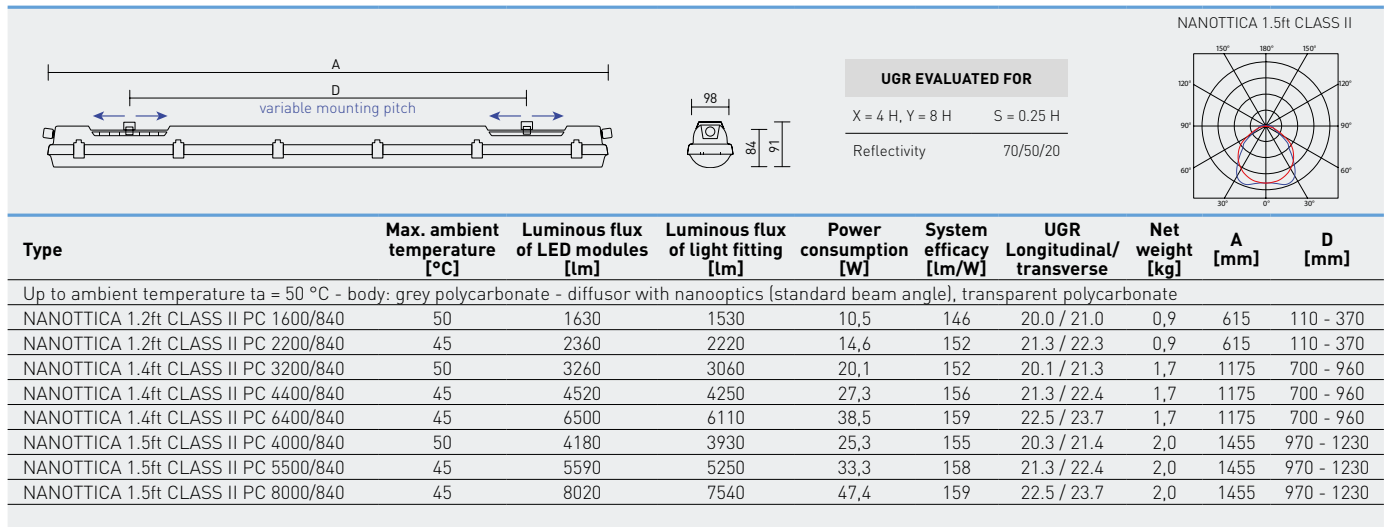


NANOTTICA CLASS II PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-40 °C** for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **159 lm/W**
- **UGR ranging from 20,0 to 23,7**
- 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 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
- **External terminal block** 2 or 4-pole, conductor cross-sectional area: 1.5 or 2.5 mm², or 6-pole Wieland connector (DALI 3F)
- The package includes the opposite of the counterpart
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %



NANOTTICA CLASS II PC

Code	Type
101814	NANOTTICA 1.2ft CLASS II PC 1600/840
101815	NANOTTICA 1.2ft CLASS II PC 2200/840
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
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	M3hAt	3F M3hAt
101825		101836	x	x
101826		101837	x	x
101828		101839	108447	108455
101829		101840	108448	108456
101830		101841	108449	108457
101832		101843	108451	108459
101833		101844	108452	108460
101834		101845	108453	108461

NANOTTICA CLASS II PCc

Code	Type
101879	NANOTTICA 1.2ft CLASS II PCc 1600/840
101880	NANOTTICA 1.2ft CLASS II PCc 2200/840
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
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	M3hAt	3F M3hAt
101890		101901	x	x
101891		101902	x	x
101893		101904	108463	108471
101894		101905	108464	108472
101895		101906	108465	108473
101897		101908	108467	108507
101898		101909	108468	108508
101899		101910	108469	108509

NANOTTICA CLASS II PC DALI

Code	Type
101944	NANOTTICA 1.2ft CLASS II PC 1600/840 DALI
101945	NANOTTICA 1.2ft CLASS II PC 2200/840 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
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	M3hAt	3F M3hAt
	101955	x	x	x
	101956	x	x	x
	101958	101969	108475	108483
	101959	101970	108476	108484
	101960	101971	108477	108485
	101962	101973	108479	108487
	101963	101974	108480	108488
	101964	101975	108481	108489

NANOTTICA CLASS II PCc DALI

Code	Type
102009	NANOTTICA 1.2ft CLASS II PCc 1600/840 DALI
102010	NANOTTICA 1.2ft CLASS II PCc 2200/840 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
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	M3hAt	3F M3hAt
	102020	x	x	x
	102021	x	x	x
	102023	102034	108491	108499
	102024	102035	108492	108500
	102025	102036	108493	108501
	102027	102038	108495	108503
	102028	102039	108496	108504
	102029	102040	108497	108505

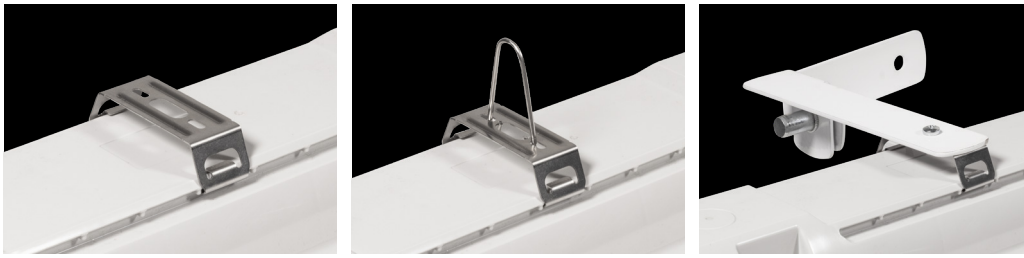
LEGEND

- 1F** - 1-phase 2 core through-wiring in the luminaire
- 3F** - 3-phase 4 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 nanooptics. This ensures eye comfort, **high visual performance and workplace safety**, which indirectly **translates into higher productivity**.

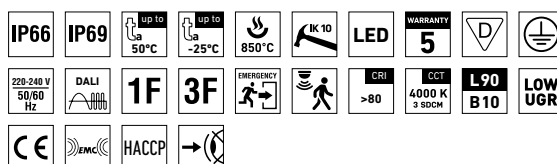
Highly recommended also for **illumination of spaces where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as visual inspection areas. Its **standard beam angle with the sensor** makes it a perfect choice for premises with 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 dif-fuser boast **high impact and deformation resistance**. Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Includes an in-built **microwave motion sensor**
- Low **UGR ranging from 20,1 to 24,6**
- 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
- Lifetime: 100 000 hours / L80B10
- 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
- Optional delivery in dimmable version
- Certificates: **HACCP**

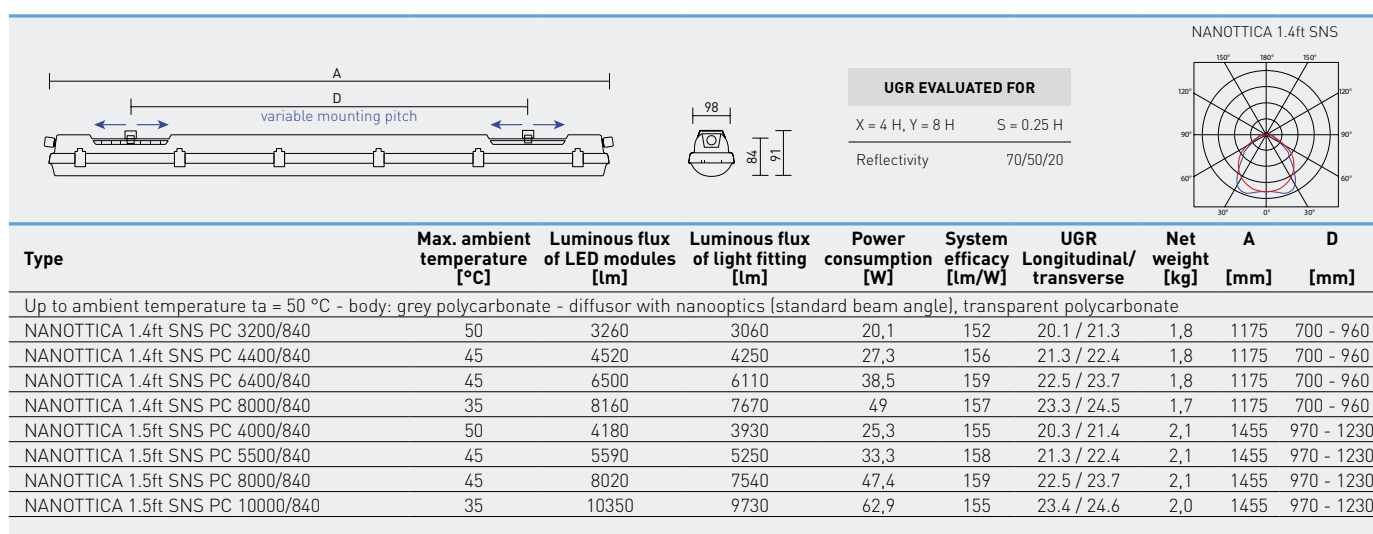


NANOTTICA SNS PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **159 lm/W**
- **UGR ranging from 20,1 to 24,6**
- 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:** detection angle 30°-150°, switch on height 1 – 6 m, time range 5 sec – 15 min, switch-on sensitivity 2 – 50 lux
- 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 %



NANOTTICA SNS PC

Code	Type
102074	NANOTTICA 1.4ft SNS PC 3200/840
102075	NANOTTICA 1.4ft SNS PC 4400/840
102076	NANOTTICA 1.4ft SNS PC 6400/840
110285	NANOTTICA 1.4ft SNS PC 8000/840
102078	NANOTTICA 1.5ft SNS PC 4000/840
102079	NANOTTICA 1.5ft SNS PC 5500/840
102080	NANOTTICA 1.5ft SNS PC 8000/840
110286	NANOTTICA 1.5ft SNS PC 10000/840

Non-dimmable driver - plastic clips

1F	3F	M3hAt	3F M3hAt
102082	102090	108511	108519
102083	102091	108512	108520
102084	102092	108513	108521
110287	110289	x	x
102086	102094	108515	108523
102087	102095	108516	108524
102088	102096	108517	108525
110288	110290	x	x

NANOTTICA SNS PCc

Code	Type
102126	NANOTTICA 1.4ft SNS PCc 3200/840
102127	NANOTTICA 1.4ft SNS PCc 4400/840
102128	NANOTTICA 1.4ft SNS PCc 6400/840
110291	NANOTTICA 1.4ft SNS PCc 8000/840
102130	NANOTTICA 1.5ft SNS PCc 4000/840
102131	NANOTTICA 1.5ft SNS PCc 5500/840
102132	NANOTTICA 1.5ft SNS PCc 8000/840
110292	NANOTTICA 1.5ft SNS PCc 10000/840

Non-dimmable driver - stainless clips [c]

1F	3F	M3hAt	3F M3hAt
102134	102142	108527	108535
102135	102143	108528	108536
102136	102144	108529	108537
110293	110295	x	x
102138	102146	108531	108539
102139	102147	108532	108540
102140	102148	108533	108541
110294	110296	x	x

NANOTTICA SNS PC CORRIDOR

Code	Type
102178	NANOTTICA 1.4ft SNS PC 3200/840 COR
102179	NANOTTICA 1.4ft SNS PC 4400/840 COR
102180	NANOTTICA 1.4ft SNS PC 6400/840 COR
110297	NANOTTICA 1.4ft SNS PC 8000/840 COR
102182	NANOTTICA 1.5ft SNS PC 4000/840 COR
102183	NANOTTICA 1.5ft SNS PC 5500/840 COR
102184	NANOTTICA 1.5ft SNS PC 8000/840 COR
110298	NANOTTICA 1.5ft SNS PC 10000/840 COR

Digital dimmable driver DALI - plastic clips

	1F	3F	M3hAt	3F M3hAt
	102186	102194	110064	110066
	102187	102195	110065	110067
	102188	102196	108542	108547
	110299	110301	x	x
	102190	102198	108544	108549
	102191	102199	108545	108550
	102192	102200	108546	108551
	110300	110302	x	x

NANOTTICA SNS PCc CORRIDOR

Code	Type
102224	NANOTTICA 1.4ft SNS PCc 3200/840 COR
102225	NANOTTICA 1.4ft SNS PCc 4400/840 COR
102226	NANOTTICA 1.4ft SNS PCc 6400/840 COR
110303	NANOTTICA 1.4ft SNS PCc 8000/840 COR
102228	NANOTTICA 1.5ft SNS PCc 4000/840 COR
102229	NANOTTICA 1.5ft SNS PCc 5500/840 COR
102230	NANOTTICA 1.5ft SNS PCc 8000/840 COR
110304	NANOTTICA 1.5ft SNS PCc 10000/840 COR

Digital dimmable driver DALI - stainless clips (c)

	1F	3F	M3hAt	3F M3hAt
	102232	102240	110068	110070
	102233	102241	110069	110071
	102234	102242	108552	108557
	110305	110307	x	x
	102236	102244	108554	108559
	102237	102245	108555	108560
	102238	102246	108556	108561
	110306	110308	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire for connection of max. 5 slave luminaires
- 3F** - 3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor connected to L3)
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor and emergency unit connected to L3)

- COR** - version with digital dimmable driver DALI and set CORRIDOR function
- COR 1F** - 1-phase 5 core through-wiring in the luminaire for connection of max. 20 luminaires
- COR 3F** - 3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L1)
- COR 3F M3hAt** - 3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L1 and emergency unit 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



NANOTTICA SNS WB

NEW



... with movement detector, ceiling height from 2.5 to 4 m.

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**.

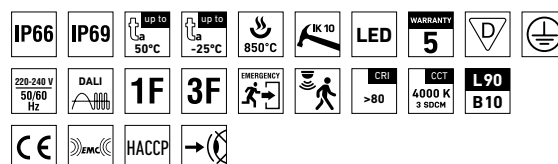
The fitting is highly recommended for **illumination of premises where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as craft workshops and visual inspection areas.

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 407.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Includes an in-built **microwave motion sensor**
- Wide Beam angle (WB), optimum luminaire installation height from 2.5 to 4 m
- Low **UGR ranging from 21,5 to 25,2**
- 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
- Lifetime: 100 000 hours / L80B10
- 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 WB PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-40 °C** for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **157 lm/W**
- **UGR ranging from 21,5 to 25,2**
- 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 nanooptics 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
- **Motion sensor:** detection angle 30°-150°, switch on height 1 – 6 m, time range 5 sec – 15 min, switch-on sensitivity 2 – 50 lux
- Cable glands: screwed PG 13.5
- 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 %

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

NANOTTICA 1.5ft SNS WB

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 nanooptics WB (wide beam angle), transparent polycarbonate									
NANOTTICA 1.4ft SNS WB PC 3200/840	50	3260	3030	20,1	151	22.8 / 21.5	1,7	1175	700 - 960
NANOTTICA 1.4ft SNS WB PC 4400/840	45	4520	4200	27,3	154	23.9 / 22.6	1,7	1175	700 - 960
NANOTTICA 1.4ft SNS WB PC 6400/840	45	6500	6050	38,5	157	25.2 / 23.9	1,7	1175	700 - 960
NANOTTICA 1.5ft SNS WB PC 4000/840	50	4180	3890	25,3	154	22.9 / 21.6	2,0	1455	970 - 1230
NANOTTICA 1.5ft SNS WB PC 5500/840	45	5590	5200	33,3	156	23.9 / 22.6	2,0	1455	970 - 1230
NANOTTICA 1.5ft SNS WB PC 8000/840	45	8020	7460	47,4	157	25.2 / 23.9	2,0	1455	970 - 1230

NANOTTICA SNS WB PC

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
103759	NANOTTICA 1.4ft SNS WB PC 3200/840	103767	103775	103791	103807
103760	NANOTTICA 1.4ft SNS WB PC 4400/840	103768	103776	103792	103808
103761	NANOTTICA 1.4ft SNS WB PC 6400/840	103769	103777	103793	103809
103763	NANOTTICA 1.5ft SNS WB PC 4000/840	103771	103779	103795	103811
103764	NANOTTICA 1.5ft SNS WB PC 5500/840	103772	103780	103796	103812
103765	NANOTTICA 1.5ft SNS WB PC 8000/840	103773	103781	103797	103813

NANOTTICA SNS WB PCc

Non-dimmable driver - stainless clips [c]

Code	Type	1F	3F	M3hAt	3F M3hAt
103815	NANOTTICA 1.4ft SNS WB PCc 3200/840	103823	103831	103847	103863
103816	NANOTTICA 1.4ft SNS WB PCc 4400/840	103824	103832	103848	103864
103817	NANOTTICA 1.4ft SNS WB PCc 6400/840	103825	103833	103849	103865
103819	NANOTTICA 1.5ft SNS WB PCc 4000/840	103827	103835	103851	103867
103820	NANOTTICA 1.5ft SNS WB PCc 5500/840	103828	103836	103852	103868
103821	NANOTTICA 1.5ft SNS WB PCc 8000/840	103829	103837	103853	103869

NANOTTICA SNS WB PC CORRIDOR

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
103871	NANOTTICA 1.4ft SNS WB PC 3200/840 COR	103879	103887	103903	103919
103872	NANOTTICA 1.4ft SNS WB PC 4400/840 COR	103880	103888	103904	103920
103873	NANOTTICA 1.4ft SNS WB PC 6400/840 COR	103881	103889	103905	103921
103875	NANOTTICA 1.5ft SNS WB PC 4000/840 COR	103883	103891	103907	103923
103876	NANOTTICA 1.5ft SNS WB PC 5500/840 COR	103884	103892	103908	103924
103877	NANOTTICA 1.5ft SNS WB PC 8000/840 COR	103885	103893	103909	103925

NANOTTICA SNS WB PCc CORRIDOR

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
103927	NANOTTICA 1.4ft SNS WB PCc 3200/840 COR	103935	103943	103959	103975
103928	NANOTTICA 1.4ft SNS WB PCc 4400/840 COR	103936	103944	103960	103976
103929	NANOTTICA 1.4ft SNS WB PCc 6400/840 COR	103937	103945	103961	103977
103931	NANOTTICA 1.5ft SNS WB PCc 4000/840 COR	103939	103947	103963	103979
103932	NANOTTICA 1.5ft SNS WB PCc 5500/840 COR	103940	103948	103964	103980
103933	NANOTTICA 1.5ft SNS WB PCc 8000/840 COR	103941	103949	103965	103981

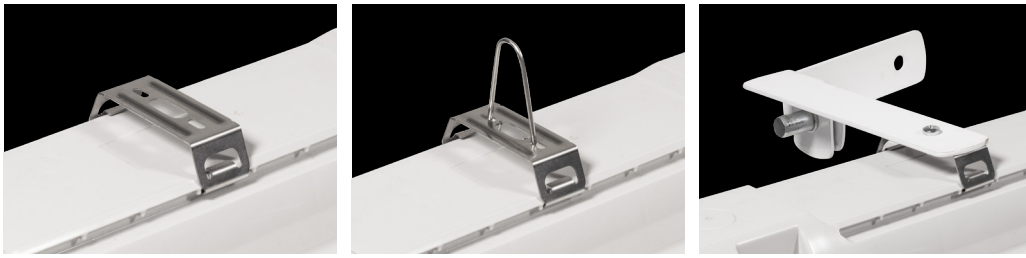
LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire for connection of max. 5 slave luminaires
- 3F** - 3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor connected to L3)
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor and emergency unit connected to L3)

- COR** - version with digital dimmable driver DALI and set CORRIDOR function
- COR 1F** - 1-phase 5 core through-wiring in the luminaire for connection of max. 20 luminaires
- COR 3F** - 3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L1)
- COR 3F M3hAt** - 3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L1 and emergency unit 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 WB PC



LIGHT FITTING DETAILED VIEW

NANOTTICA SNS WB PC



NANOTTICA PIR

NEW



... with movement detector, ceiling height from 3.5 to 12 m.

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**.

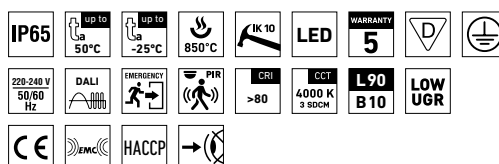
Highly recommended also for **illumination of spaces where workers' visual precision is of paramount importance**. These include workshops where fine assembly work is performed as well as visual inspection areas. Its **standard beam angle with the sensor** makes it a perfect choice for premises with an optimum luminaire installation height of **3.5 to 12 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.

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 407.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 20,0 to 24,6**
- Light fitting protection **IP65**
- 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
- Lifetime: 100 000 hours / L80B10
- 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
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in emergency version



NANOTTICA PIR PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP65**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-40 °C** for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **159 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 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 – 12 m, time range 2 sec – 30 min, switch-on sensitivity 2 – 500 lux
- Cable gland: 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 %

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

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 nanooptics (standard beam angle), transparent polycarbonate									
NANOTTICA 1.2ft PIR PC 1600/840	50	1630	1530	10,5	146	20.0 / 21.0	1,0	615	110 - 370
NANOTTICA 1.2ft PIR PC 2200/840	45	2360	2220	14,6	152	21.3 / 22.3	1,0	615	110 - 370
NANOTTICA 1.4ft PIR PC 3200/840	50	3260	3060	20,1	152	20.1 / 21.3	1,8	1175	700 - 960
NANOTTICA 1.4ft PIR PC 4400/840	45	4520	4250	27,3	156	21.3 / 22.4	1,8	1175	700 - 960
NANOTTICA 1.4ft PIR PC 6400/840	45	6500	6110	38,5	159	22.5 / 23.7	1,8	1175	700 - 960
NANOTTICA 1.4ft PIR PC 8000/840	35	8160	7670	49,0	157	23.3 / 24.5	1,7	1175	700 - 960
NANOTTICA 1.5ft PIR PC 4000/840	50	4180	3930	25,3	155	20.3 / 21.4	2,1	1455	970 - 1230
NANOTTICA 1.5ft PIR PC 5500/840	45	5590	5250	33,3	158	21.3 / 22.4	2,1	1455	970 - 1230
NANOTTICA 1.5ft PIR PC 8000/840	45	8020	7540	47,4	159	22.5 / 23.7	2,1	1455	970 - 1230
NANOTTICA 1.5ft PIR PC 10000/840	35	10350	9730	62,9	155	23.4 / 24.6	2,0	1455	970 - 1230

NANOTTICA PIR PC non-dimmable, plastic clips

Code	Type	M3hAt
107122	NANOTTICA 1.2ft PIR PC 1600/840	x
107123	NANOTTICA 1.2ft PIR PC 2200/840	x
107124	NANOTTICA 1.4ft PIR PC 3200/840	107130
107125	NANOTTICA 1.4ft PIR PC 4400/840	107131
107126	NANOTTICA 1.4ft PIR PC 6400/840	107132
110333	NANOTTICA 1.4ft PIR PC 8000/840	x
107127	NANOTTICA 1.5ft PIR PC 4000/840	107133
107128	NANOTTICA 1.5ft PIR PC 5500/840	107134
107129	NANOTTICA 1.5ft PIR PC 8000/840	107135
110334	NANOTTICA 1.5ft PIR PC 10000/840	x

Basic PIR settings: light time 5 min, ambient light control set to 2 lux
To change the settings, the HRC-11 remote control (12285) is required

NANOTTICA PIR PC COR digital dimmable DALI, plastic clips

Code	Type	M3hAt
107150	NANOTTICA 1.2ft PIR PC 1600/840 COR	x
107151	NANOTTICA 1.2ft PIR PC 2200/840 COR	x
107152	NANOTTICA 1.4ft PIR PC 3200/840 COR	107158
107153	NANOTTICA 1.4ft PIR PC 4400/840 COR	107159
107154	NANOTTICA 1.4ft PIR PC 6400/840 COR	107160
110335	NANOTTICA 1.4ft PIR PC 8000/840 COR	x
107155	NANOTTICA 1.5ft PIR PC 4000/840 COR	107161
107156	NANOTTICA 1.5ft PIR PC 5500/840 COR	107162
107157	NANOTTICA 1.5ft PIR PC 8000/840 COR	107163
110336	NANOTTICA 1.5ft PIR PC 10000/840 COR	x

Basic PIR COR settings:
5 min at 100% light level; 10 min at 20% light level, then 0%
To change the settings, the HRC-11 remote control (12285) is required

NANOTTICA PIR PCc non-dimmable, stainless clips

Code	Type	M3hAt
107136	NANOTTICA 1.2ft PIR PCc 1600/840	x
107137	NANOTTICA 1.2ft PIR PCc 2200/840	x
107138	NANOTTICA 1.4ft PIR PCc 3200/840	107144
107139	NANOTTICA 1.4ft PIR PCc 4400/840	107145
107140	NANOTTICA 1.4ft PIR PCc 6400/840	107146
110337	NANOTTICA 1.4ft PIR PCc 8000/840	x
107141	NANOTTICA 1.5ft PIR PCc 4000/840	107147
107142	NANOTTICA 1.5ft PIR PCc 5500/840	107148
107143	NANOTTICA 1.5ft PIR PCc 8000/840	107149
110338	NANOTTICA 1.5ft PIR PCc 10000/840	x

Basic PIR settings: light time 5 min, ambient light control set to 2 lux
To change the settings, the HRC-11 remote control (12285) is required

NANOTTICA PIR PCc COR digital dimmable DALI, stainless clips

Code	Type	M3hAt
107164	NANOTTICA 1.2ft PIR PCc 1600/840 COR	x
107165	NANOTTICA 1.2ft PIR PCc 2200/840 COR	x
107166	NANOTTICA 1.4ft PIR PCc 3200/840 COR	107172
107167	NANOTTICA 1.4ft PIR PCc 4400/840 COR	107173
107168	NANOTTICA 1.4ft PIR PCc 6400/840 COR	107174
110339	NANOTTICA 1.4ft PIR PCc 8000/840 COR	x
107169	NANOTTICA 1.5ft PIR PCc 4000/840 COR	107175
107170	NANOTTICA 1.5ft PIR PCc 5500/840 COR	107176
107171	NANOTTICA 1.5ft PIR PCc 8000/840 COR	107177
110340	NANOTTICA 1.5ft PIR PCc 10000/840 COR	x

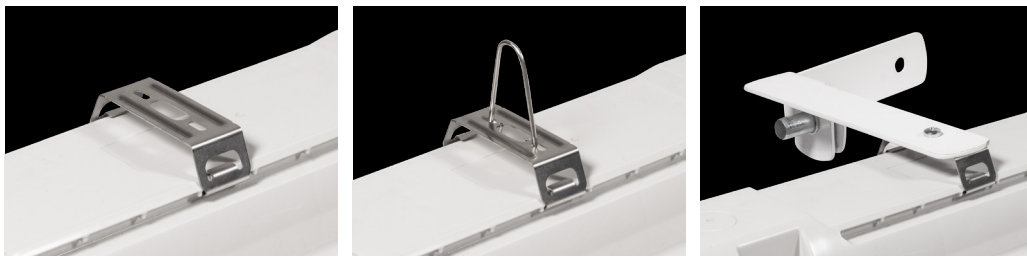
Basic PIR COR settings:
5 min at 100% light level; 10 min at 20% light level, then 0%
To change the settings, the HRC-11 remote control (12285) is required

LEGEND

- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
COR - version with digital dimmable driver DALI and set CORRIDOR function in **PIR sensor, setting with the HRC11 remote control**

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 PIR



LIGHT FITTING DETAILED VIEW

NANOTTICA PIR



NANOTTICA E-CON

NEW



... with external terminal block IP66 / IP69.

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.

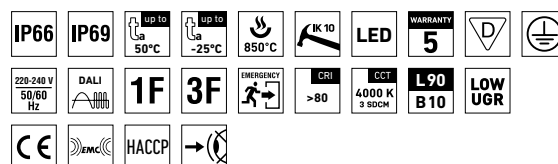
An external terminal block makes it easy and quick to connect the supply cable with no need to open the fitting.

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; for more information see page 407.

ADVANTAGES

- Patented optics ensures absolute control over light beam distribution
- Low **UGR ranging from 20,0 to 24,6**
- 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
- Lifetime: 100 000 hours / L80B10
- 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
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in emergency version
- Eliminated risk of mechanical and electrostatic damage to LED chips
- Optional throughwiring (up to 5 wires inside the light fitting)

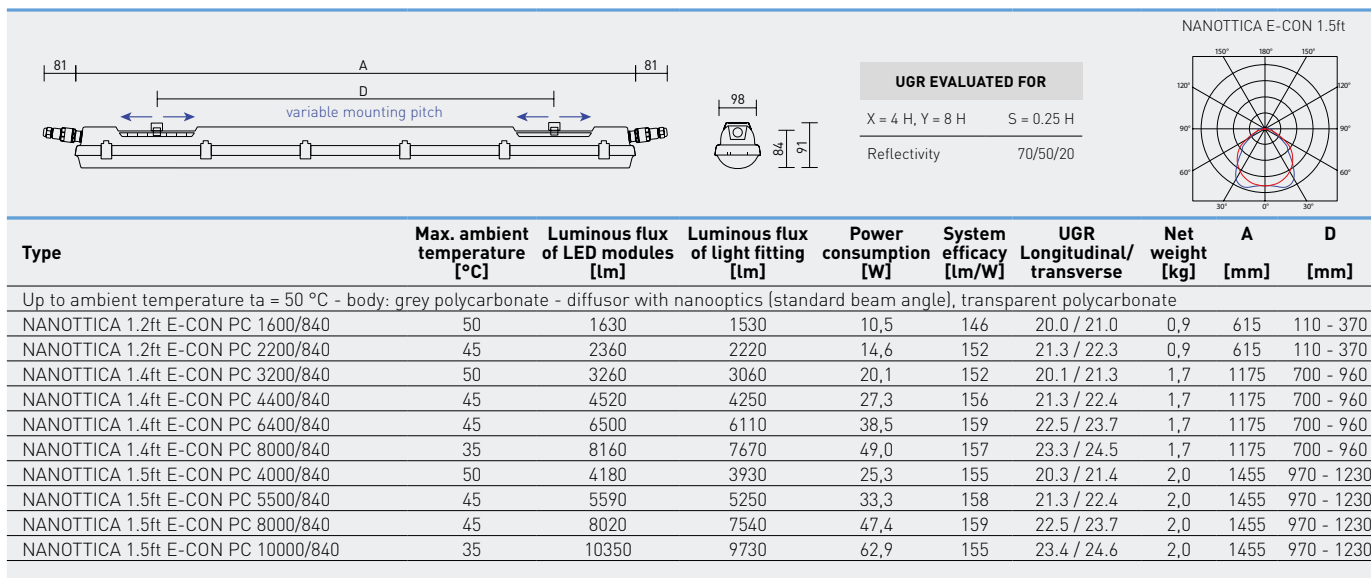


NANOTTICA E-CON PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-40 °C** for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **159 lm/W**
- **UGR ranging from 20,0 to 24,6**
- 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 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
- **External terminal block** 3 or 5-pole, conductor cross-sectional area: 1.5 or 2.5 mm²
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %



NANOTTICA E-CON PC

Type
NANOTTICA 1.2ft E-CON PC 1600/840
NANOTTICA 1.2ft E-CON PC 2200/840
NANOTTICA 1.4ft E-CON PC 3200/840
NANOTTICA 1.4ft E-CON PC 4400/840
NANOTTICA 1.4ft E-CON PC 6400/840
NANOTTICA 1.4ft E-CON PC 8000/840
NANOTTICA 1.5ft E-CON PC 4000/840
NANOTTICA 1.5ft E-CON PC 5500/840
NANOTTICA 1.5ft E-CON PC 8000/840
NANOTTICA 1.5ft E-CON PC 10000/840

Non-dimmable driver, plastic clips

	1x3P	1x5P	M3hAt 1x5P	2x3P	2x5P	M3hAt 2x5P
107464	107472	x	107486	107494	x	
107465	107473	x	107487	107495	x	
107466	107474	107480	107488	107496	107502	
107467	107475	107481	107489	107497	107503	
107468	107476	107482	107490	107498	107504	
110309	110311	x	110313	110315	x	
107469	107477	107483	107491	107499	107505	
107470	107478	107484	107492	107500	107506	
107471	107479	107485	107493	107501	107507	
110310	110312	x	110314	110316	x	

NANOTTICA E-CON PCc

Type
NANOTTICA 1.2ft E-CON PCc 1600/840
NANOTTICA 1.2ft E-CON PCc 2200/840
NANOTTICA 1.4ft E-CON PCc 3200/840
NANOTTICA 1.4ft E-CON PCc 4400/840
NANOTTICA 1.4ft E-CON PCc 6400/840
NANOTTICA 1.4ft E-CON PCc 8000/840
NANOTTICA 1.5ft E-CON PCc 4000/840
NANOTTICA 1.5ft E-CON PCc 5500/840
NANOTTICA 1.5ft E-CON PCc 8000/840
NANOTTICA 1.5ft E-CON PCc 10000/840

Non-dimmable driver, stainless clips (c)

	1x3P	1x5P	M3hAt 1x5P	2x3P	2x5P	M3hAt 2x5P
107536	107544	x	107558	107566	x	
107537	107545	x	107559	107567	x	
107538	107546	107552	107560	107568	107574	
107539	107547	107553	107561	107569	107575	
107540	107548	107554	107562	107570	107576	
110321	110323	x	110325	110327	x	
107541	107549	107555	107563	107571	107577	
107542	107550	107556	107564	107572	107578	
107543	107551	107557	107565	107573	107579	
110322	110324	x	110326	110328	x	

NANOTTICA E-CON PC DALI

Type
NANOTTICA 1.2ft E-CON PC 1600/840
NANOTTICA 1.2ft E-CON PC 2200/840
NANOTTICA 1.4ft E-CON PC 3200/840
NANOTTICA 1.4ft E-CON PC 4400/840
NANOTTICA 1.4ft E-CON PC 6400/840
NANOTTICA 1.4ft E-CON PC 8000/840
NANOTTICA 1.5ft E-CON PC 4000/840
NANOTTICA 1.5ft E-CON PC 5500/840
NANOTTICA 1.5ft E-CON PC 8000/840
NANOTTICA 1.5ft E-CON PC 10000/840

Digital dimmable driver DALI, plastic clips

	DALI 1x5P	DALI M3hAt 1x5P	DALI 2x5P	DALI M3hAt 2x5P
	107508	x	107522	x
	107509	x	107523	x
	107510	107516	107524	107530
	107511	107517	107525	107531
	107512	107518	107526	107532
	110317	x	110319	x
	107513	107519	107527	107533
	107514	107520	107528	107534
	107515	107521	107529	107535
	110318	x	110320	x

NANOTTICA E-CON PCc DALI

Type
NANOTTICA 1.2ft E-CON PCc 1600/840
NANOTTICA 1.2ft E-CON PCc 2200/840
NANOTTICA 1.4ft E-CON PCc 3200/840
NANOTTICA 1.4ft E-CON PCc 4400/840
NANOTTICA 1.4ft E-CON PCc 6400/840
NANOTTICA 1.4ft E-CON PCc 8000/840
NANOTTICA 1.5ft E-CON PCc 4000/840
NANOTTICA 1.5ft E-CON PCc 5500/840
NANOTTICA 1.5ft E-CON PCc 8000/840
NANOTTICA 1.5ft E-CON PCc 10000/840

Digital dimmable driver DALI, stainless clips (c)

	DALI 1x5P	DALI M3hAt 1x5P	DALI 2x5P	DALI M3hAt 2x5P
	107580	x	107594	x
	107581	x	107595	x
	107582	107588	107596	107602
	107583	107589	107597	107603
	107584	107590	107598	107604
	110329	x	110331	x
	107585	107591	107599	107605
	107586	107592	107600	107606
	107587	107593	107601	107607
	110330	x	110332	x

LEGEND

- 1x3P** - a version featuring a non-dimmable ballast and a single 3-pole external terminal block
- 1x5P** - a version featuring a non-dimmable ballast and a single 5-pole external terminal block
- M3hAt 1x5P** - emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting and a single 5-pole external terminal block
- 2x3P** - a version featuring a non-dimmable ballast, two 3-pole external terminal blocks and 3-wire connecting cables (1F), for continuous row installation
- 2x5P** - a version featuring a non-dimmable ballast, two 5-pole external terminal blocks and 5-wire connecting cables (3F), for continuous row installation
- M3hAt 2x5P** - emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting, two 5-pole external terminal blocks and 5-wire connecting cables (3F), for continuous row installation
- DALI 1x5P** - a version featuring a digitally dimmable ballast and a single 5-pole external terminal block
- DALI M3hAt 1x5P** - a version featuring a digitally dimmable ballast, emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting and a single 5-pole external terminal block
- DALI 2x5P** - a version featuring a digitally dimmable ballast, two 5-pole external terminal blocks and 5-wire connecting cables (DALI 1F), for continuous row installation
- DALI M3hAt 2x5P** - a version featuring a digitally dimmable ballast, emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting, two 5-pole external terminal blocks 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



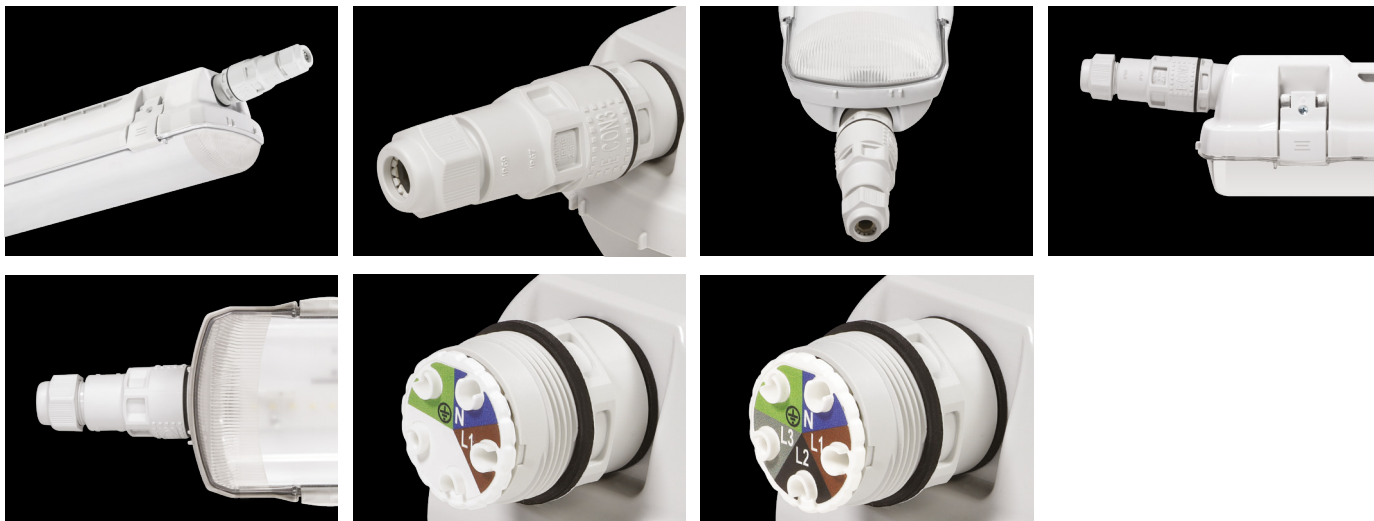
VARIABLE INSTALLATION PITCH

NANOTTICA E-CON PC



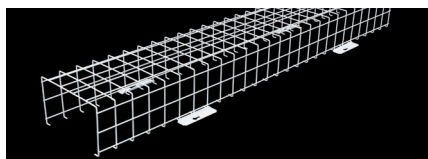
LIGHT FITTING DETAILED VIEW

NANOTTICA E-CON PC



OM – protective grid

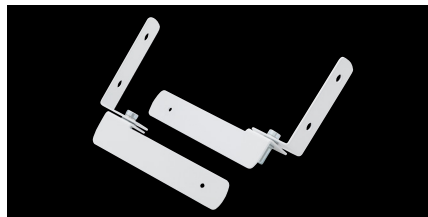
The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws. The surface is treated with the RAL 9003 powder-coated colour.



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

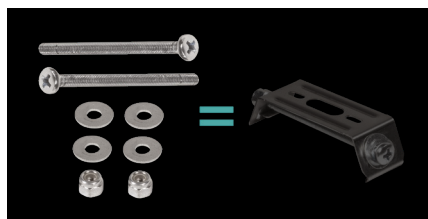
BZ – side hanger

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

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


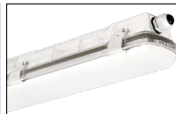









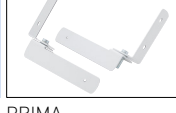

PRIMA



INDUSTRIAL
PLASTIC
DUSTPROOF
WATERPROOF
IMPACT RESISTANT



PRIMA – industrial plastic LED light fitting

<p>PRIMA BASIC VERSION page 96</p>		<p>PRIMA EXCEPTIONALLY LOW UGR page 117</p>	
<p>IP66 IP69</p>	<p>PRIMA PC, PCc page 96</p>	<p>IP66 IP69</p>	<p>PRIMA TRS PC, PCc page 117</p>
<p>PRIMA FOR EXTREME TEMPERATURES page 99</p>		<p>PRIMA WITH CLASS II INSULATION page 120</p>	
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<p>PRIMA FOR OUTDOOR SHELTERED SPACES page 102</p>		<p>PRIMA WITH MICROWAVE MOTION SENSOR page 123</p>	
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<p>PRIMA CHEMICALLY RESISTANT VERSION page 105</p>		<p>PRIMA WITH INFRARED MOTION SENSOR page 126</p>	
<p>IP66 IP69</p>	<p>PRIMA ABS, ABSc page 105</p>	<p>IP65</p>	<p>PRIMA PIR PC, PCc page 126</p>
<p>PRIMA FOR OUTDOOR SHEL- TERED SPACES, CHEMICALLY RESISTANT VERSION page 108</p>		<p>PRIMA WITH EXTERNAL TERMINAL BLOCK page 129</p>	
<p>IP66 IP69</p>	<p>PRIMA VP ABS, ABSc page 108</p>	<p>IP66 IP69</p>	<p>PRIMA E-CON PC, PCc page 129</p>
<p>PRIMA VALUE BASIC VERSION page 111</p>		<p>PRIMA ACCESSORIES page 132</p>	
<p>IP66</p>	<p>PRIMA VALUE PC, PCc page 111</p>	<p>PRIMA ACCESSORIES page 132</p>	<p>PRIMA ACCESSORIES page 132</p>
<p>PRIMA VALUE CHEMICALLY RESISTANT VERSION page 114</p>			
<p>IP66</p>	<p>PRIMA VALUE ABS, ABSc page 114</p>		

PRIMA



... dustproof, waterproof and impact resistant, MultiLumen.

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.

Thanks to the MultiLumen function, the luminaire can be adjusted for changing lighting requirements without much effort.

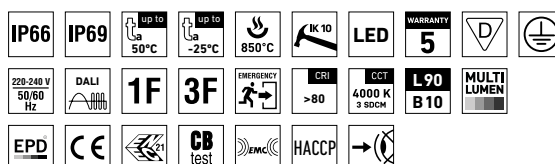
IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

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 407.

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
- Lifetime: 100 000 hours / L80B10
- 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
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- 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**

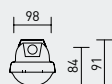
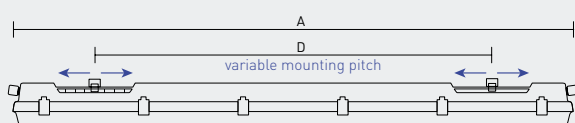


PRIMA PC, PCc



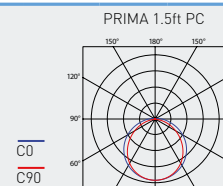
TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- 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
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- 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
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of $\pm 7.5\%$



UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H
Reflectivity 70/50/20



Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Preselected Step 1 of MultiLumen function				Net weight [kg]	A [mm]	D [mm]
			Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/transverse			
Up to ambient temperature ta = 50 °C - body: grey polycarbonate - diffuser: translucent polycarbonate									
PRIMA 1.2ft PC 1600/840	50	1630	1520	10,5	145	23,0 / 21,6	0,9	615	110 - 370
PRIMA 1.2ft PC 2200/840 *	45	2360	2190	14,6	150	24,3 / 22,8	0,9	615	110 - 370
PRIMA 1.4ft PC 3200/840	50	3260	3030	20,1	151	23,2 / 21,9	1,7	1175	700 - 960
PRIMA 1.4ft PC 4400/840 *	45	4520	4200	27,3	154	24,3 / 23,0	1,7	1175	700 - 960
PRIMA 1.4ft PC 6400/840 *	45	6500	6050	38,5	157	25,6 / 24,3	1,7	1175	700 - 960
PRIMA 1.4ft PC 8000/840	35	8160	7590	49,0	155	26,4 / 25,0	1,7	1175	700 - 960
PRIMA 1.5ft PC 4000/840	50	4180	3890	25,3	154	23,3 / 22,0	2,0	1455	970 - 1230
PRIMA 1.5ft PC 5500/840 *	45	5590	5200	33,3	156	24,3 / 23,0	2,0	1455	970 - 1230
PRIMA 1.5ft PC 8000/840 *	45	8020	7460	47,4	157	25,6 / 24,3	2,0	1455	970 - 1230
PRIMA 1.5ft PC 10000/840	35	10350	9630	62,9	153	26,5 / 25,2	2,0	1455	970 - 1230

*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
PRIMA 1.2ft PC 2200/840 ML	1900	13,0	146	1600	11,0	145	1290	9,1	142
PRIMA 1.4ft PC 4400/840 ML	3650	23,3	157	3080	19,5	158	2490	15,8	158
PRIMA 1.4ft PC 6400/840 ML	5250	32,8	160	4440	27,4	162	3600	22,1	163
PRIMA 1.5ft PC 5500/840 ML	4500	28,4	158	3790	23,6	161	3070	19,1	161
PRIMA 1.5ft PC 8000/840 ML	6480	40,4	160	5480	33,6	163	4440	27,2	163

PRIMA PC

Code	Type
105246	PRIMA 1.2ft PC 1600/840
105247	PRIMA 1.2ft PC 2200/840 ML
105249	PRIMA 1.4ft PC 3200/840
105250	PRIMA 1.4ft PC 4400/840 ML
105251	PRIMA 1.4ft PC 6400/840 ML
106797	PRIMA 1.4ft PC 8000/840
105253	PRIMA 1.5ft PC 4000/840
105254	PRIMA 1.5ft PC 5500/840 ML
105255	PRIMA 1.5ft PC 8000/840 ML
106798	PRIMA 1.5ft PC 10000/840

Non-dimmable driver - plastic clips

	1F	3F	M3hAt	3F M3hAt
	105257	105268	x	x
	105258	105269	x	x
	105260	105271	108803	108811
	105261	105272	108804	108812
	105262	105273	108805	108813
	106799	106801	x	x
	105264	105275	108807	108815
	105265	105276	108808	108816
	105266	105277	108809	108817
	106800	106802	x	x

PRIMA PCc

Code	Type
105311	PRIMA 1.2ft PCc 1600/840
105312	PRIMA 1.2ft PCc 2200/840 ML
105314	PRIMA 1.4ft PCc 3200/840
105315	PRIMA 1.4ft PCc 4400/840 ML
105316	PRIMA 1.4ft PCc 6400/840 ML
106803	PRIMA 1.4ft PCc 8000/840
105318	PRIMA 1.5ft PCc 4000/840
105319	PRIMA 1.5ft PCc 5500/840 ML
105320	PRIMA 1.5ft PCc 8000/840 ML
106804	PRIMA 1.5ft PCc 10000/840

Non-dimmable driver - stainless clips (c)

	1F	3F	M3hAt	3F M3hAt
105322		105333	x	x
105323		105334	x	x
105325		105336	108819	108827
105326		105337	108820	108828
105327		105338	108821	108829
106805		106807	x	x
105329		105340	108823	108831
105330		105341	108824	108832
105331		105342	108825	108833
106806		106808	x	x

PRIMA PC DALI

Code	Type
105376	PRIMA 1.2ft PC 1600/840 DALI
105377	PRIMA 1.2ft PC 2200/840 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
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	M3hAt	3F M3hAt
105387		x	x	x
105388		x	x	x
105390		105401	108835	105437
105391		105402	108836	105438
105392		105403	108837	105439
106811		106813	x	x
105394		105405	108839	105441
105395		105406	108840	105442
105396		105407	108841	105443
106812		106814	x	x

PRIMA PCc DALI

Code	Type
105445	PRIMA 1.2ft PCc 1600/840 DALI
105446	PRIMA 1.2ft PCc 2200/840 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
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	M3hAt	3F M3hAt
105456		x	x	x
105457		x	x	x
105459		105470	108843	105506
105460		105471	108844	105507
105461		105472	108845	105508
106817		106819	x	x
105463		105474	108847	105510
105464		105475	108848	105511
105465		105476	108849	105512
106818		106820	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 MAX



... for extreme temperatures -40 °C to +65 °C.

USE

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.

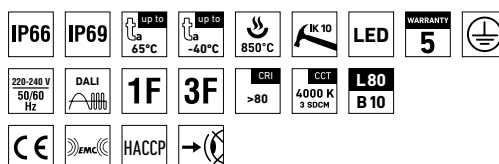
Highly recommended for **heating plants, metallurgical plants, glassworks, freezing plants, cooling plants** and other spaces with no explosion hazard.

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 407.

ADVANTAGES

- 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**

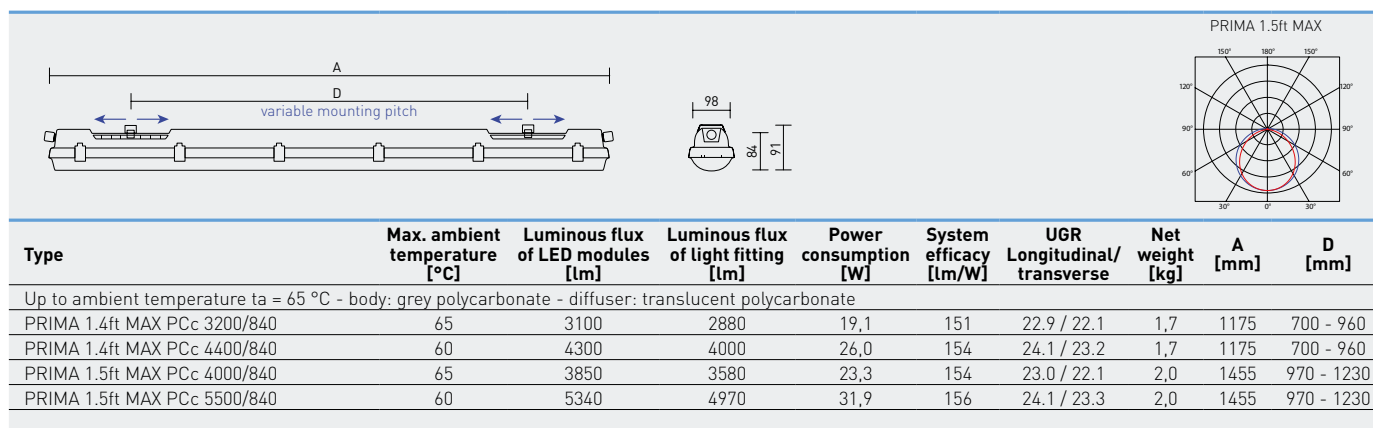


PRIMA MAX PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Minimum ambient temperature: **ta = -40 °C**
- Maximum ambient temperature: **ta = 65 °C**
- Lifetime: 50 000 hours / L80B10
- Maximum light fitting efficiency: **156 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)
- **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 $\pm 7.5\%$



PRIMA MAX PCc

stainless clips (c)

Code	Type	1F	3F	DALI	DALI 3F
107086	PRIMA 1.4ft MAX PCc 3200/840	107087	107088	107089	107090
107091	PRIMA 1.4ft MAX PCc 4400/840	107093	107095	107097	107099
107092	PRIMA 1.5ft MAX PCc 4000/840	107094	107096	107098	107100
107101	PRIMA 1.5ft MAX PCc 5500/840	107102	107103	107104	107105

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire

- DALI** - version with digital dimmable driver DALI
- DALI 3F** - 3-phase 7 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**

PRIMA MAX



PRIMA VP



... 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.

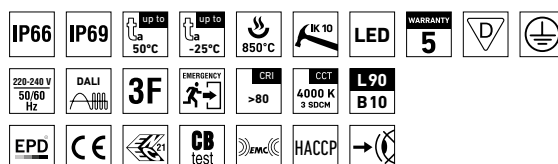
IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

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; for more information see page 407.

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
- Lifetime: 100 000 hours / L80B10
- 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**

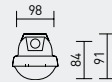
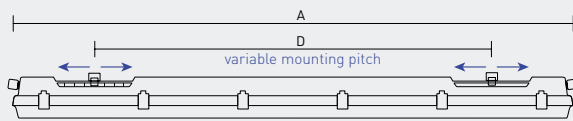


PRIMA VP PC, PCc



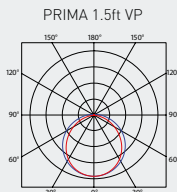
TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **157 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)
- **A ventilation membrane** in the base equalizes pressures while blocking water and contaminants
- **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 $\pm 7.5 \%$



UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H
Reflectivity 70/50/20



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 PC 1600/840	50	1630	1520	10,5	145	23.0 / 21.6	0,9	615	110 - 370
PRIMA 1.2ft VP PC 2200/840	45	2360	2190	14,6	150	24.3 / 22.8	0,9	615	110 - 370
PRIMA 1.4ft VP PC 3200/840	50	3260	3030	20,1	151	23.2 / 21.9	1,7	1175	700 - 960
PRIMA 1.4ft VP PC 4400/840	45	4520	4200	27,3	154	24.3 / 23.0	1,7	1175	700 - 960
PRIMA 1.4ft VP PC 6400/840	45	6500	6050	38,5	157	25.6 / 24.3	1,7	1175	700 - 960
PRIMA 1.4ft VP PC 8000/840	35	8160	7590	49,0	155	26.4 / 25.0	1,7	1175	700 - 960
PRIMA 1.5ft VP PC 4000/840	50	4180	3890	25,3	154	23.3 / 22.0	2,0	1455	970 - 1230
PRIMA 1.5ft VP PC 5500/840	45	5590	5200	33,3	156	24.3 / 23.0	2,0	1455	970 - 1230
PRIMA 1.5ft VP PC 8000/840	45	8020	7460	47,4	157	25.6 / 24.3	2,0	1455	970 - 1230
PRIMA 1.5ft VP PC 10000/840	35	10350	9630	62,9	153	26.5 / 25.2	2,0	1455	970 - 1230

PRIMA VP PC

Code	Type
105782	PRIMA 1.2ft VP PC 1600/840
105783	PRIMA 1.2ft VP PC 2200/840
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
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

Non-dimmable driver - plastic clips

	3F	M3hAt	3F M3hAt
105793		x	x
105794		x	x
105796		108899	105816
105797		108900	105817
105798		108901	105818
106847		x	x
105800		108903	105820
105801		108904	105821
105802		108905	105822
106848		x	x

PRIMA VP PCc

Code	Type
105824	PRIMA 1.2ft VP PCc 1600/840
105825	PRIMA 1.2ft VP PCc 2200/840
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
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

Non-dimmable driver - stainless clips [c]

	3F	M3hAt	3F M3hAt
105835		x	x
105836		x	x
105838		108907	105858
105839		108908	105859
105840		108909	105860
106851		x	x
105842		108911	105862
105843		108912	105863
105844		108913	105864
106852		x	x

PRIMA VP PC DALI

Code	Type
105866	PRIMA 1.2ft VP PC 1600/840 DALI
105867	PRIMA 1.2ft VP PC 2200/840 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
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	M3hAt	3F M3hAt
	x	x	x
	x	x	x
	105880	108915	105900
	105881	108916	105901
	105882	108917	105902
	106855	x	x
	105884	108919	105904
	105885	108920	105905
	105886	108921	105906
	106856	x	x

PRIMA VP PCc DALI

Code	Type
105908	PRIMA 1.2ft VP PCc 1600/840 DALI
105909	PRIMA 1.2ft VP PCc 2200/840 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
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	M3hAt	3F M3hAt
	x	x	x
	x	x	x
	105922	108923	105942
	105923	108924	105943
	105924	108925	105944
	106859	x	x
	105926	108927	105946
	105927	108928	105947
	105928	108929	105948
	106860	x	x

LEGEND

- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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



... dustproof, waterproof and chemically resistant, MultiLumen.

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).

Thanks to the **MultiLumen function**, the luminaire can be adjusted for changing lighting requirements without much effort.

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.

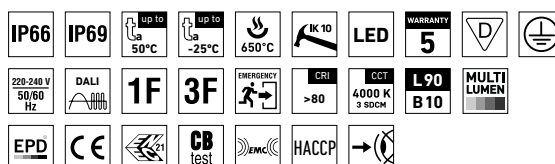
IP69-rated and HACCP-compliant, the fitting's design also makes it suitable for the food industry.

The fitting's base and diffuser are made of ABS resulting in their **exceptional chemical resistance**.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

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
- Lifetime: 100 000 hours / L80B10
- 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
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- 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, ABSc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- 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
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- MacAdam = 3 SDCM
- Diffuser: translucent ABS (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
- 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]	Preselected Step 1 of MultiLumen function				Net weight [kg]	A [mm]	D [mm]
			Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/transverse			
Up to ambient temperature ta = 50 °C - body: dark grey ABS - diffuser: translucent ABS									
PRIMA 1.2ft ABS 1600/840	50	1630	1520	10,5	145	22,9 / 21,7	0,9	615	110 - 370
PRIMA 1.2ft ABS 2200/840 *	45	2360	2190	14,6	150	24,1 / 23,0	0,9	615	110 - 370
PRIMA 1.4ft ABS 3200/840	50	3260	3030	20,1	151	23,0 / 22,0	1,7	1175	700 - 960
PRIMA 1.4ft ABS 4400/840 *	45	4520	4200	27,3	154	24,2 / 23,2	1,7	1175	700 - 960
PRIMA 1.4ft ABS 6400/840 *	45	6500	6050	38,5	157	25,4 / 24,4	1,7	1175	700 - 960
PRIMA 1.4ft ABS 8000/840	35	8160	7590	49,0	155	26,2 / 25,2	1,7	1175	700 - 960
PRIMA 1.5ft ABS 4000/840	50	4180	3890	25,3	154	23,2 / 22,2	2,0	1455	970 - 1230
PRIMA 1.5ft ABS 5500/840 *	45	5590	5200	33,3	156	24,2 / 23,2	2,0	1455	970 - 1230
PRIMA 1.5ft ABS 8000/840 *	45	8020	7460	47,4	157	25,4 / 24,5	2,0	1455	970 - 1230
PRIMA 1.5ft ABS 10000/840	35	10350	9630	62,9	153	26,3 / 25,3	2,0	1455	970 - 1230

*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
PRIMA 1.2ft ABS 2200/840 ML	1900	13,0	146	1600	11,0	145	1290	9,1	142
PRIMA 1.4ft ABS 4400/840 ML	3650	23,3	157	3080	19,5	158	2490	15,8	158
PRIMA 1.4ft ABS 6400/840 ML	5250	32,8	160	4440	27,4	162	3600	22,1	163
PRIMA 1.5ft ABS 5500/840 ML	4500	28,4	158	3790	23,6	161	3070	19,1	161
PRIMA 1.5ft ABS 8000/840 ML	6480	40,4	160	5480	33,6	163	4440	27,2	163

PRIMA ABS

Code	Type	Non-dimmable driver - plastic clips			
		1F	3F	M3hAt	3F M3hAt
105514	PRIMA 1.2ft ABS 1600/840	105525	105536	x	x
105515	PRIMA 1.2ft ABS 2200/840 ML	105526	105537	x	x
105517	PRIMA 1.4ft ABS 3200/840	105528	105539	108851	108859
105518	PRIMA 1.4ft ABS 4400/840 ML	105529	105540	108852	108860
105519	PRIMA 1.4ft ABS 6400/840 ML	105530	105541	108853	108861
106821	PRIMA 1.4ft ABS 8000/840	106823	106825	x	x
105521	PRIMA 1.5ft ABS 4000/840	105532	105543	108855	108863
105522	PRIMA 1.5ft ABS 5500/840 ML	105533	105544	108856	108864
105523	PRIMA 1.5ft ABS 8000/840 ML	105534	105545	108857	108865
106822	PRIMA 1.5ft ABS 10000/840	106824	106826	x	x

PRIMA ABSc

Code	Type
105579	PRIMA 1.2ft ABSc 1600/840
105580	PRIMA 1.2ft ABSc 2200/840 ML
105582	PRIMA 1.4ft ABSc 3200/840
105583	PRIMA 1.4ft ABSc 4400/840 ML
105584	PRIMA 1.4ft ABSc 6400/840 ML
106827	PRIMA 1.4ft ABSc 8000/840
105586	PRIMA 1.5ft ABSc 4000/840
105587	PRIMA 1.5ft ABSc 5500/840 ML
105588	PRIMA 1.5ft ABSc 8000/840 ML
106828	PRIMA 1.5ft ABSc 10000/840

Non-dimmable driver - stainless clips (c)

	1F	3F	M3hAt	3F M3hAt
105590		105601	x	x
105591		105602	x	x
105593		105604	108867	108875
105594		105605	108868	108876
105595		105606	108869	108877
106829		106831	x	x
105597		105608	108871	108879
105598		105609	108872	108880
105599		105610	108873	108881
106830		106832	x	x

PRIMA ABS DALI

Code	Type
105644	PRIMA 1.2ft ABS 1600/840 DALI
105645	PRIMA 1.2ft ABS 2200/840 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
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	M3hAt	3F M3hAt
105655		x	x	x
105656		x	x	x
105658		105669	108883	105705
105659		105670	108884	105706
105660		105671	108885	105707
106835		106837	x	x
105662		105673	108887	105709
105663		105674	108888	105710
105664		105675	108889	105711
106836		106838	x	x

PRIMA ABSc DALI

Code	Type
105713	PRIMA 1.2ft ABSc 1600/840 DALI
105714	PRIMA 1.2ft ABSc 2200/840 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
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	M3hAt	3F M3hAt
105724		x	x	x
105725		x	x	x
105727		105738	108891	105774
105728		105739	108892	105775
105729		105740	108893	105776
106841		106843	x	x
105731		105742	108895	105778
105732		105743	108896	105779
105733		105744	108897	105780
106842		106844	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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



... 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.

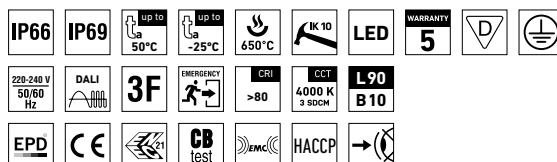
The fitting is highly recommended for agricultural buildings and other spaces with chemically aggressive environments due to ammonia fumes, lye fumes, alkali, hot water (hydrolysis) and oils. The product is primarily intended for **agricultural buildings and industrial halls such as farms, stables, production 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 and diffuser are made of ABS resulting in their **exceptional chemical resistance**.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

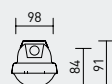
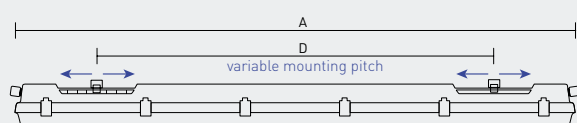
- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25^\circ\text{C}$ to $t_a = 50^\circ\text{C}$
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- High **mechanical resistance IK10**
- **Variable suspension pitch**, optional installation 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 ABS, ABS_c

TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **157 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)
- Reflector: steel sheet, white colour (RAL 9003)
- **A ventilation membrane** in the base equalizes pressures while blocking water and contaminants
- **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 %

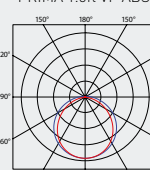


UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

PRIMA 1.5ft VP 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 = 50 °C - body: dark grey ABS - diffuser: translucent ABS									
PRIMA 1.2ft VP ABS 1600/840	50	1630	1520	10,5	145	22.9 / 21.7	0,9	615	110 - 370
PRIMA 1.2ft VP ABS 2200/840	45	2360	2190	14,6	150	24.1 / 23.0	0,9	615	110 - 370
PRIMA 1.4ft VP ABS 3200/840	50	3260	3030	20,1	151	23.0 / 22.0	1,7	1175	700 - 960
PRIMA 1.4ft VP ABS 4400/840	45	4520	4200	27,3	154	24.2 / 23.2	1,7	1175	700 - 960
PRIMA 1.4ft VP ABS 6400/840	45	6500	6050	38,5	157	25.4 / 24.4	1,7	1175	700 - 960
PRIMA 1.4ft VP ABS 8000/840	35	8160	7590	49,0	155	26.2 / 25.2	1,7	1175	700 - 960
PRIMA 1.5ft VP ABS 4000/840	50	4180	3890	25,3	154	23.2 / 22.2	2,0	1455	970 - 1230
PRIMA 1.5ft VP ABS 5500/840	45	5590	5200	33,3	156	24.2 / 23.2	2,0	1455	970 - 1230
PRIMA 1.5ft VP ABS 8000/840	45	8020	7460	47,4	157	25.4 / 24.5	2,0	1455	970 - 1230
PRIMA 1.5ft VP ABS 10000/840	35	10350	9630	62,9	153	26.3 / 25.3	2,0	1455	970 - 1230

PRIMA VP ABS

Code	Type
105950	PRIMA 1.2ft VP ABS 1600/840
105951	PRIMA 1.2ft VP ABS 2200/840
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
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

Non-dimmable driver - plastic clips

	3F	M3hAt	3F M3hAt
	105961	x	x
	105962	x	x
	105964	108931	105984
	105965	108932	105985
	105966	108933	105986
	106863	x	x
	105968	108935	105988
	105969	108936	105989
	105970	108937	105990
	106864	x	x

PRIMA VP ABS_c

Code	Type
105992	PRIMA 1.2ft VP ABS _c 1600/840
105993	PRIMA 1.2ft VP ABS _c 2200/840
105995	PRIMA 1.4ft VP ABS _c 3200/840
105996	PRIMA 1.4ft VP ABS _c 4400/840
105997	PRIMA 1.4ft VP ABS _c 6400/840
106865	PRIMA 1.4ft VP ABS _c 8000/840
105999	PRIMA 1.5ft VP ABS _c 4000/840
106000	PRIMA 1.5ft VP ABS _c 5500/840
106001	PRIMA 1.5ft VP ABS _c 8000/840
106866	PRIMA 1.5ft VP ABS _c 10000/840

Non-dimmable driver - stainless clips (c)

	3F	M3hAt	3F M3hAt
	106003	x	x
	106004	x	x
	106006	108939	106026
	106007	108940	106027
	106008	108941	106028
	106867	x	x
	106010	108943	106030
	106011	108944	106031
	106012	108945	106032
	106868	x	x

PRIMA VP ABS DALI

Code	Type
106034	PRIMA 1.2ft VP ABS 1600/840 DALI
106035	PRIMA 1.2ft VP ABS 2200/840 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
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	M3hAt	3F M3hAt
	x	x	x
	x	x	x
	106048	108947	106068
	106049	108948	106069
	106050	108949	106070
	106871	x	x
	106052	108951	106072
	106053	108952	106073
	106054	108953	106074
	106872	x	x

PRIMA VP ABSc DALI

Code	Type
106076	PRIMA 1.2ft VP ABSc 1600/840 DALI
106077	PRIMA 1.2ft VP ABSc 2200/840 DALI
106079	PRIMA 1.4ft VP ABSc 3200/840 DALI
106080	PRIMA 1.4ft VP ABSc 4400/840 DALI
106081	PRIMA 1.4ft VP ABSc 6400/840 DALI
106873	PRIMA 1.4ft VP ABSc 8000/840 DALI
106083	PRIMA 1.5ft VP ABSc 4000/840 DALI
106084	PRIMA 1.5ft VP ABSc 5500/840 DALI
106085	PRIMA 1.5ft VP ABSc 8000/840 DALI
106874	PRIMA 1.5ft VP ABSc 10000/840 DALI

Digital dimmable driver DALI - stainless clips (c)

	3F	M3hAt	3F M3hAt
	x	x	x
	x	x	x
	106090	108955	106110
	106091	108956	106111
	106092	108957	106112
	106875	x	x
	106094	108959	106114
	106095	108960	106115
	106096	108961	106116
	106876	x	x

LEGEND

- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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



... dustproof, waterproof and impact resistant, MultiLumen.

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.

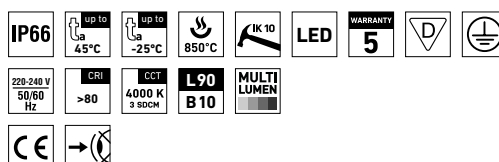
Thanks to the **MultiLumen function**, the luminaire can be adjusted for changing lighting requirements without much effort.

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 407.

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
- Lifetime: 100 000 hours / L80B10
- 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
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- Standard model CRI > 80; 4000 K
- Certificates: CE (only)

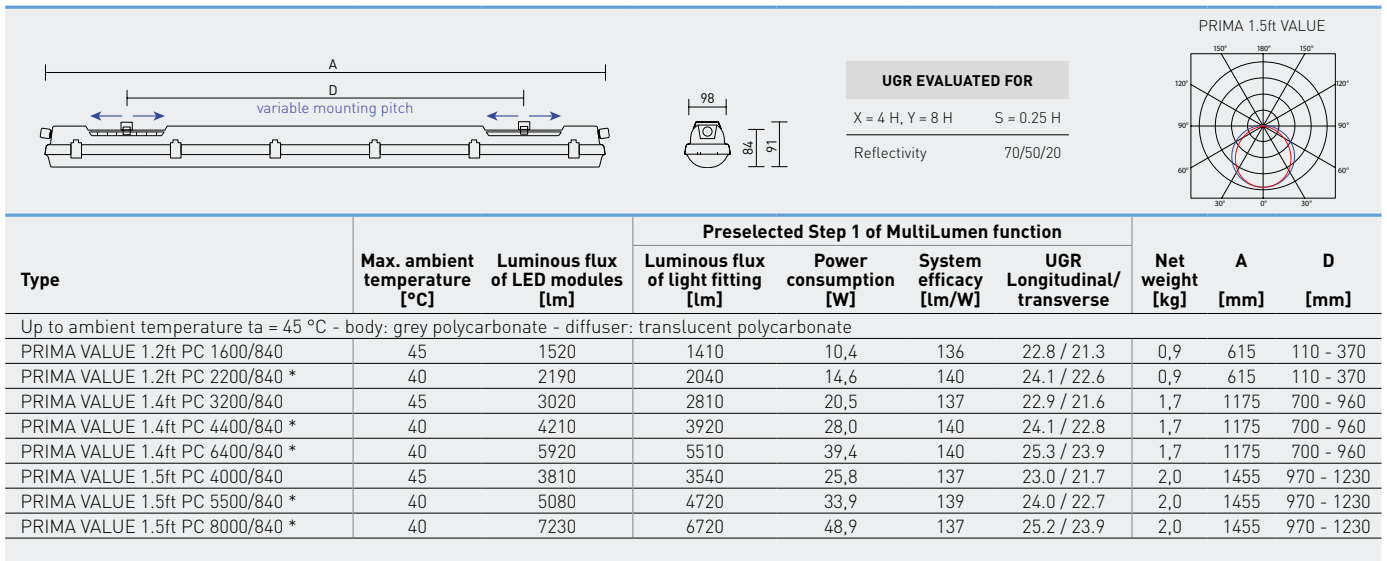


PRIMA VALUE PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: **ta = 45 °C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **140 lm/W**
- **CRI > 80: 4000 K** – standard
- **MultiLumen (ML)**: luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- 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 %



*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
PRIMA VALUE 1.2ft PC 2200/840 ML	1750	12,5	140	1450	10,4	139	1160	8,3	140
PRIMA VALUE 1.4ft PC 4400/840 ML	3360	24,0	140	2800	20,0	140	2240	16,0	140
PRIMA VALUE 1.4ft PC 6400/840 ML	4720	33,8	140	3930	28,1	140	3140	22,5	140
PRIMA VALUE 1.5ft PC 5500/840 ML	4050	29,1	139	3380	24,2	140	2700	19,4	139
PRIMA VALUE 1.5ft PC 8000/840 ML	5770	41,9	138	4800	34,9	138	3840	27,9	138

PRIMA VALUE PC

Code	Type
106730	PRIMA VALUE 1.2ft PC 1600/840
106731	PRIMA VALUE 1.2ft PC 2200/840 ML
106733	PRIMA VALUE 1.4ft PC 3200/840
106734	PRIMA VALUE 1.4ft PC 4400/840 ML
106735	PRIMA VALUE 1.4ft PC 6400/840 ML
106737	PRIMA VALUE 1.5ft PC 4000/840
106738	PRIMA VALUE 1.5ft PC 5500/840 ML
106739	PRIMA VALUE 1.5ft PC 8000/840 ML

Non-dimmable driver - plastic clips

	1F	3F	M3hAt	3F M3hAt
	111409	111417	x	x
	111410	111418	x	x
	111411	111419	x	x
	111412	111420	x	x
	111413	111421	x	x
	111414	111422	x	x
	111415	111423	x	x
	111416	111424	x	x

PRIMA VALUE PCc

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
106741	PRIMA VALUE 1.2ft PCc 1600/840	111425	111433	x	x
106742	PRIMA VALUE 1.2ft PCc 2200/840 ML	111426	111434	x	x
106744	PRIMA VALUE 1.4ft PCc 3200/840	111427	111435	x	x
106745	PRIMA VALUE 1.4ft PCc 4400/840 ML	111428	111436	x	x
106746	PRIMA VALUE 1.4ft PCc 6400/840 ML	111429	111437	x	x
106748	PRIMA VALUE 1.5ft PCc 4000/840	111430	111438	x	x
106749	PRIMA VALUE 1.5ft PCc 5500/840 ML	111431	111439	x	x
106750	PRIMA VALUE 1.5ft PCc 8000/840 ML	111432	111440	x	x

LEGEND

1F - 1-phase 3 core through-wiring in the luminaire
3F - 3-phase 5 core through-wiring in the luminaire

M3hAt - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest

3F M3hAt - 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



... dustproof, waterproof and chemically resistant, MultiLumen.

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).

Thanks to the **MultiLumen function**, the luminaire can be adjusted for changing lighting requirements without much effort.

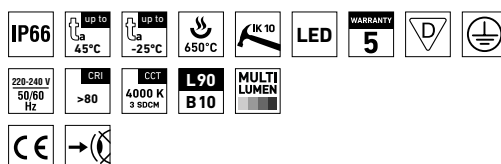
The fitting is primarily intended for large **agricultural premises and industrial halls such as farms, stables, production plants and warehouses, car washes and laboratories** with no explosion hazard.

The fitting's base and diffuser are made of ABS resulting in their **exceptional chemical resistance**.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

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
- Lifetime: 100 000 hours / L80B10
- 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
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- 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
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **140 lm/W**
- **CRI > 80: 4000 K** – standard
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- MacAdam = 3 SDCM
- Diffuser: translucent ABS (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: 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]	Preselected Step 1 of MultiLumen function				Net weight [kg]	A [mm]	D [mm]
			Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/transverse			
Up to ambient temperature ta = 45 °C - body: dark grey ABS - diffuser: translucent ABS									
PRIMA VALUE 1.2ft ABS 1600/840	45	1520	1410	10,4	136	22,6 / 21,5	0,9	615	110 - 370
PRIMA VALUE 1.2ft ABS 2200/840 *	40	2190	2040	14,6	140	23,9 / 22,8	0,9	615	110 - 370
PRIMA VALUE 1.4ft ABS 3200/840	45	3020	2810	20,5	137	22,8 / 21,8	1,7	1175	700 - 960
PRIMA VALUE 1.4ft ABS 4400/840 *	40	4210	3920	28,0	140	23,9 / 22,9	1,7	1175	700 - 960
PRIMA VALUE 1.4ft ABS 6400/840 *	40	5920	5510	39,4	140	25,1 / 24,1	1,7	1175	700 - 960
PRIMA VALUE 1.5ft ABS 4000/840	45	3810	3540	25,8	137	22,8 / 21,9	2,0	1455	970 - 1230
PRIMA VALUE 1.5ft ABS 5500/840 *	40	5080	4720	33,9	139	23,8 / 22,9	2,0	1455	970 - 1230
PRIMA VALUE 1.5ft ABS 8000/840 *	40	7230	6720	48,9	137	25,1 / 24,1	2,0	1455	970 - 1230

*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
PRIMA VALUE 1.2ft ABS 2200/840 ML	1750	12,5	140	1450	10,4	139	1160	8,3	140
PRIMA VALUE 1.4ft ABS 4400/840 ML	3360	24,0	140	2800	20,0	140	2240	16,0	140
PRIMA VALUE 1.4ft ABS 6400/840 ML	4720	33,8	140	3930	28,1	140	3140	22,5	140
PRIMA VALUE 1.5ft ABS 5500/840 ML	4050	29,1	139	3380	24,2	140	2700	19,4	139
PRIMA VALUE 1.5ft ABS 8000/840 ML	5770	41,9	138	4800	34,9	138	3840	27,9	138

PRIMA VALUE ABS

Code	Type
106752	PRIMA VALUE 1.2ft ABS 1600/840
106753	PRIMA VALUE 1.2ft ABS 2200/840 ML
106755	PRIMA VALUE 1.4ft ABS 3200/840
106756	PRIMA VALUE 1.4ft ABS 4400/840 ML
106757	PRIMA VALUE 1.4ft ABS 6400/840 ML
106759	PRIMA VALUE 1.5ft ABS 4000/840
106760	PRIMA VALUE 1.5ft ABS 5500/840 ML
106761	PRIMA VALUE 1.5ft ABS 8000/840 ML

Non-dimmable driver - plastic clips

	1F	3F	M3hAt	3F M3hAt
	111441	111449	x	x
	111442	111450	x	x
	111443	111451	x	x
	111444	111452	x	x
	111445	111453	x	x
	111446	111454	x	x
	111447	111455	x	x
	111448	111456	x	x

PRIMA VALUE ABSc

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
106763	PRIMA VALUE 1.2ft ABSc 1600/840	111457	111465	x	x
106764	PRIMA VALUE 1.2ft ABSc 2200/840 ML	111458	111466	x	x
106766	PRIMA VALUE 1.4ft ABSc 3200/840	111459	111467	x	x
106767	PRIMA VALUE 1.4ft ABSc 4400/840 ML	111460	111468	x	x
106768	PRIMA VALUE 1.4ft ABSc 6400/840 ML	111461	111469	x	x
106770	PRIMA VALUE 1.5ft ABSc 4000/840	111462	111470	x	x
106771	PRIMA VALUE 1.5ft ABSc 5500/840 ML	111463	111471	x	x
106772	PRIMA VALUE 1.5ft ABSc 8000/840 ML	111464	111472	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire

- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 TRS



... 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.

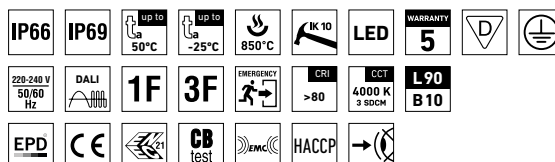
IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

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; for more information see page 407.

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
- Lifetime: 100 000 hours / L80B10
- 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**

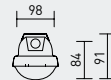
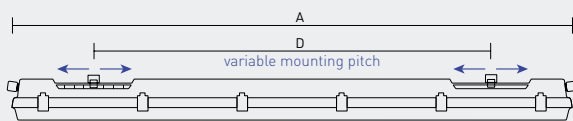


PRIMA TRS PC, PCc



TECHNICAL DESCRIPTION

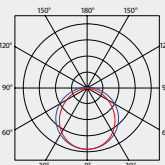
- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **159 lm/W**
- **CRI > 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
- Terminal block: screwless, three-pole (basic version), or screwed
- The values stated for power consumption and luminous flux are in a tolerance of $\pm 7.5\%$



UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H
Reflectivity 70/50/20

PRIMA 1.5ft TRS



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 1600/840	50	1630	1530	10,5	146	20.7 / 20.1	0,9	615	110 - 370
PRIMA 1.2ft TRS PC 2200/840	45	2360	2220	14,6	152	22.0 / 21.4	0,9	615	110 - 370
PRIMA 1.4ft TRS PC 3200/840	50	3260	3060	20,1	152	20.9 / 20.6	1,7	1175	700 - 960
PRIMA 1.4ft TRS PC 4400/840	45	4520	4250	27,3	156	22.1 / 21.7	1,7	1175	700 - 960
PRIMA 1.4ft TRS PC 6400/840	45	6500	6110	38,5	159	23.3 / 23.0	1,7	1175	700 - 960
PRIMA 1.4ft TRS PC 8000/840	35	8160	7670	49,0	157	24.1 / 23.7	1,7	1175	700 - 960
PRIMA 1.5ft TRS PC 4000/840	50	4180	3930	25,3	155	21.1 / 20.7	2,0	1455	970 - 1230
PRIMA 1.5ft TRS PC 5500/840	45	5590	5250	33,3	158	22.1 / 21.8	2,0	1455	970 - 1230
PRIMA 1.5ft TRS PC 8000/840	45	8020	7540	47,4	159	23.3 / 23.0	2,0	1455	970 - 1230
PRIMA 1.5ft TRS PC 10000/840	35	10350	9730	62,9	155	24.2 / 23.9	2,0	1455	970 - 1230

PRIMA TRS PC

Code	Type
104978	PRIMA 1.2ft TRS PC 1600/840
104979	PRIMA 1.2ft TRS PC 2200/840
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
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	M3hAt	3F M3hAt
104989	105000		x	x
104990	105001		x	x
104992	105003		108755	108763
104993	105004		108756	108764
104994	105005		108757	108765
106775	106777		x	x
104996	105007		108759	108767
104997	105008		108760	108768
104998	105009		108761	108769
106776	106778		x	x

PRIMA TRS PCc

Code	Type
105043	PRIMA 1.2ft TRS PCc 1600/840
105044	PRIMA 1.2ft TRS PCc 2200/840
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
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	M3hAt	3F M3hAt
105054	105065		x	x
105055	105066		x	x
105057	105068		108771	108779
105058	105069		108772	108780
105059	105070		108773	108781
106781	106783		x	x
105061	105072		108775	108783
105062	105073		108776	108784
105063	105074		108777	108785
106782	106784		x	x

PRIMA TRS PC DALI

Code	Type
105108	PRIMA 1.2ft TRS PC 1600/840 DALI
105109	PRIMA 1.2ft TRS PC 2200/840 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
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	M3hAt	3F M3hAt
105119		x	x	x
105120		x	x	x
105122		105133	108787	105169
105123		105134	108788	105170
105124		105135	108789	105171
106787		106789	x	x
105126		105137	108791	105173
105127		105138	108792	105174
105128		105139	108793	105175
106788		106790	x	x

PRIMA TRS PCc DALI

Code	Type
105177	PRIMA 1.2ft TRS PCc 1600/840 DALI
105178	PRIMA 1.2ft TRS PCc 2200/840 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
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	M3hAt	3F M3hAt
105188		x	x	x
105189		x	x	x
105191		105202	108795	105238
105192		105203	108796	105239
105193		105204	108797	105240
106793		106795	x	x
105195		105206	108799	105242
105196		105207	108800	105243
105197		105208	108801	105244
106794		106796	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
3F - 3-phase 5 core through-wiring in the luminaire
M3hAt - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
3F M3hAt - 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 M3hAt - 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 CLASS II



... 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.

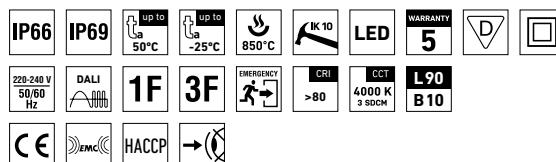
IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

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; for more information see page 407.

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
- Lifetime: 100 000 hours / L80B10
- 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: **HACCP**

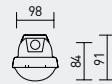
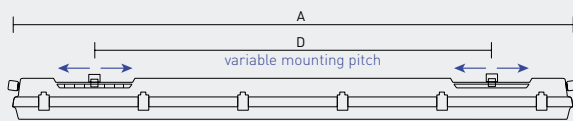


PRIMA CLASS II PC, PCc



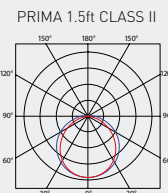
TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-40 °C** for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **157 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
- **External terminal block** 2 or 4-pole, conductor cross-sectional area: 1.5 or 2.5 mm², or 6-pole Wieland connector (DALI 3F)
- The package includes the opposite of the counterpart
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %



UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H
 Reflectivity 70/50/20



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 1600/840	50	1630	1520	10,5	145	23.0 / 21.6	0,9	615	110 - 370
PRIMA 1.2ft CLASS II PC 2200/840	45	2360	2190	14,6	150	24.3 / 22.8	0,9	615	110 - 370
PRIMA 1.4ft CLASS II PC 3200/840	50	3260	3030	20,1	151	23.2 / 21.9	1,7	1175	700 - 960
PRIMA 1.4ft CLASS II PC 4400/840	45	4520	4200	27,3	154	24.3 / 23.0	1,7	1175	700 - 960
PRIMA 1.4ft CLASS II PC 6400/840	45	6500	6050	38,5	157	25.6 / 24.3	1,7	1175	700 - 960
PRIMA 1.5ft CLASS II PC 4000/840	50	4180	3890	25,3	154	23.3 / 22.0	2,0	1455	970 - 1230
PRIMA 1.5ft CLASS II PC 5500/840	45	5590	5200	33,3	156	24.3 / 23.0	2,0	1455	970 - 1230
PRIMA 1.5ft CLASS II PC 8000/840	45	8020	7460	47,4	157	25.6 / 24.3	2,0	1455	970 - 1230

PRIMA CLASS II PC

Code	Type
106118	PRIMA 1.2ft CLASS II PC 1600/840
106119	PRIMA 1.2ft CLASS II PC 2200/840
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
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	M3hAt	3F M3hAt
	106129	106140	x	x
	106130	106141	x	x
	106132	106143	108963	108971
	106133	106144	108964	108972
	106134	106145	108965	108973
	106136	106147	108967	108975
	106137	106148	108968	108976
	106138	106149	108969	108977

PRIMA CLASS II PCc

Code	Type
106183	PRIMA 1.2ft CLASS II PCc 1600/840
106184	PRIMA 1.2ft CLASS II PCc 2200/840
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
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	M3hAt	3F M3hAt
	106194	106205	x	x
	106195	106206	x	x
	106197	106208	108979	108987
	106198	106209	108980	108988
	106199	106210	108981	108989
	106201	106212	108983	108991
	106202	106213	108984	108992
	106203	106214	108985	108993

PRIMA CLASS II PC DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
106248	PRIMA 1.2ft CLASS II PC 1600/840 DALI	106259	x	x	x
106249	PRIMA 1.2ft CLASS II PC 2200/840 DALI	106260	x	x	x
106251	PRIMA 1.4ft CLASS II PC 3200/840 DALI	106262	106273	108995	106309
106252	PRIMA 1.4ft CLASS II PC 4400/840 DALI	106263	106274	108996	106310
106253	PRIMA 1.4ft CLASS II PC 6400/840 DALI	106264	106275	108997	106311
106255	PRIMA 1.5ft CLASS II PC 4000/840 DALI	106266	106277	108999	106313
106256	PRIMA 1.5ft CLASS II PC 5500/840 DALI	106267	106278	109000	106314
106257	PRIMA 1.5ft CLASS II PC 8000/840 DALI	106268	106279	109001	106315

PRIMA CLASS II PCc DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
106317	PRIMA 1.2ft CLASS II PCc 1600/840 DALI	106328	x	x	x
106318	PRIMA 1.2ft CLASS II PCc 2200/840 DALI	106329	x	x	x
106320	PRIMA 1.4ft CLASS II PCc 3200/840 DALI	106331	106342	109003	106378
106321	PRIMA 1.4ft CLASS II PCc 4400/840 DALI	106332	106343	109004	106379
106322	PRIMA 1.4ft CLASS II PCc 6400/840 DALI	106333	106344	109005	106380
106324	PRIMA 1.5ft CLASS II PCc 4000/840 DALI	106335	106346	109007	106382
106325	PRIMA 1.5ft CLASS II PCc 5500/840 DALI	106336	106347	109008	106383
106326	PRIMA 1.5ft CLASS II PCc 8000/840 DALI	106337	106348	109009	106384

LEGEND

- 1F** - 1-phase 2 core through-wiring in the luminaire
- 3F** - 3-phase 4 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 SNS



... 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.

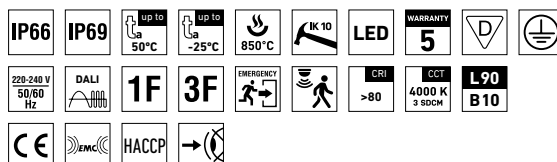
IP69-rated and HACCP-compliant, the fitting's design also makes it a great choice for the food industry.

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; for more information see page 407.

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
- Lifetime: 100 000 hours / L80B10
- 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: **HACCP**



PRIMA SNS PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **157 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
- **Motion sensor:** detection angle 30°-150°, switch on height 1 – 6 m, time range 5 sec – 15 min, switch-on sensitivity 2 – 50 lux
- 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 %

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

PRIMA 1.5ft SNS

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 3200/840	50	3260	3030	20,1	151	23.2 / 21.9	1,8	1175	700 - 960
PRIMA 1.4ft SNS PC 4400/840	45	4520	4200	27,3	154	24.3 / 23.0	1,8	1175	700 - 960
PRIMA 1.4ft SNS PC 6400/840	45	6500	6050	38,5	157	25.6 / 24.3	1,8	1175	700 - 960
PRIMA 1.4ft SNS PC 8000/840	35	8160	7590	49,0	155	26.4 / 25.0	1,8	1175	700 - 960
PRIMA 1.5ft SNS PC 4000/840	50	4180	3890	25,3	154	23.3 / 22.0	2,1	1455	970 - 1230
PRIMA 1.5ft SNS PC 5500/840	45	5590	5200	33,3	156	24.3 / 23.0	2,1	1455	970 - 1230
PRIMA 1.5ft SNS PC 8000/840	45	8020	7460	47,4	157	25.6 / 24.3	2,1	1455	970 - 1230
PRIMA 1.5ft SNS PC 10000/840	35	10350	9630	62,9	153	26.5 / 25.2	2,1	1455	970 - 1230

PRIMA SNS PC

Code	Type
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
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	M3hAt	3F M3hAt
	106394	106402	109011	109019
	106395	106403	109012	109020
	106396	106404	109013	109021
	106879	106881	x	x
	106398	106406	109015	109023
	106399	106407	109016	109024
	106400	106408	109017	109025
	106880	106882	x	x

PRIMA SNS PCc

Code	Type
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
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	M3hAt	3F M3hAt
	106450	106458	109027	109035
	106451	106459	109028	109036
	106452	106460	109029	109037
	106885	106887	x	x
	106454	106462	109031	109039
	106455	106463	109032	109040
	106456	106464	109033	109041
	106886	106888	x	x

PRIMA SNS PC CORRIDOR

Code	Type
106498	PRIMA 1.4ft SNS PC 3200/840 COR
106499	PRIMA 1.4ft SNS PC 4400/840 COR
106500	PRIMA 1.4ft SNS PC 6400/840 COR
106889	PRIMA 1.4ft SNS PC 8000/840 COR
106502	PRIMA 1.5ft SNS PC 4000/840 COR
106503	PRIMA 1.5ft SNS PC 5500/840 COR
106504	PRIMA 1.5ft SNS PC 8000/840 COR
106890	PRIMA 1.5ft SNS PC 10000/840 COR

Digital dimmable driver DALI - plastic clips

	1F	3F	M3hAt	3F M3hAt
	106506	106514	109043	106550
	106507	106515	109044	106551
	106508	106516	109045	106552
	106891	106893	x	x
	106510	106518	109047	106554
	106511	106519	109048	106555
	106512	106520	109049	106556
	106892	106894	x	x

PRIMA SNS PCc CORRIDOR

Code	Type
106558	PRIMA 1.4ft SNS PCc 3200/840 COR
106559	PRIMA 1.4ft SNS PCc 4400/840 COR
106560	PRIMA 1.4ft SNS PCc 6400/840 COR
106895	PRIMA 1.4ft SNS PCc 8000/840 COR
106562	PRIMA 1.5ft SNS PCc 4000/840 COR
106563	PRIMA 1.5ft SNS PCc 5500/840 COR
106564	PRIMA 1.5ft SNS PCc 8000/840 COR
106896	PRIMA 1.5ft SNS PCc 10000/840 COR

Digital dimmable driver DALI - stainless clips (c)

	1F	3F	M3hAt	3F M3hAt
	106566	106574	109051	106610
	106567	106575	109052	106611
	106568	106576	109053	106612
	106897	106899	x	x
	106570	106578	109055	106614
	106571	106579	109056	106615
	106572	106580	109057	106616
	106898	106900	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire for connection of max. 5 slave luminaires
3F - 3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor connected to L3)
M3hAt - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
3F M3hAt - 3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor and emergency unit connected to L3)
- COR** - version with digital dimmable driver DALI and set CORRIDOR function
COR 1F - 1-phase 5 core through-wiring in the luminaire for connection of max. 20 luminaires
COR 3F - 3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L1)
COR 3F M3hAt - 3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L1 and emergency unit 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 SNS PC



PRIMA PIR

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.

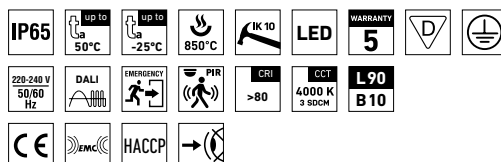
The luminaire is suitable for workplaces with a mounting height of 3.5 to 12 m.

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 407.

ADVANTAGES

- Light fitting protection **IP65**
- 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
- Lifetime: 100 000 hours / L80B10
- 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
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in emergency version



PRIMA PIR PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP65**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: **ta = 0-40 °C** for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **157 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
- **Motion sensor:** 360° range, switch on height 1 – 12 m, time range 2 sec – 30 min, switch-on sensitivity 2 – 500 lux
- Cable gland: 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 %

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

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 PIR PC 1600/840	50	1630	1520	10,5	145	23.0 / 21.6	1,0	615	110 - 370
PRIMA 1.2ft PIR PC 2200/840	45	2360	2190	14,6	150	24.3 / 22.8	1,0	615	110 - 370
PRIMA 1.4ft PIR PC 3200/840	50	3260	3030	20,1	151	23.2 / 21.9	1,8	1175	700 - 960
PRIMA 1.4ft PIR PC 4400/840	45	4520	4200	27,3	154	24.3 / 23.0	1,8	1175	700 - 960
PRIMA 1.4ft PIR PC 6400/840	45	6500	6050	38,5	157	25.6 / 24.3	1,8	1175	700 - 960
PRIMA 1.4ft PIR PC 8000/840	35	8160	7590	49	155	26.4 / 25.0	1,8	1175	700 - 960
PRIMA 1.5ft PIR PC 4000/840	50	4180	3890	25,3	154	23.3 / 22.0	2,1	1455	970 - 1230
PRIMA 1.5ft PIR PC 5500/840	45	5590	5200	33,3	156	24.3 / 23.0	2,1	1455	970 - 1230
PRIMA 1.5ft PIR PC 8000/840	45	8020	7460	47,4	157	25.6 / 24.3	2,1	1455	970 - 1230
PRIMA 1.5ft PIR PC 10000/840	35	10350	9630	62,9	153	26.5 / 25.2	2,1	1455	970 - 1230

PRIMA PIR PC non-dimmable, plastic clips

Code	Type	M3hAt
107178	PRIMA 1.2ft PIR PC 1600/840	x
107179	PRIMA 1.2ft PIR PC 2200/840	x
107180	PRIMA 1.4ft PIR PC 3200/840	107188
107181	PRIMA 1.4ft PIR PC 4400/840	107189
107182	PRIMA 1.4ft PIR PC 6400/840	107190
107183	PRIMA 1.4ft PIR PC 8000/840	x
107184	PRIMA 1.5ft PIR PC 4000/840	107191
107185	PRIMA 1.5ft PIR PC 5500/840	107192
107186	PRIMA 1.5ft PIR PC 8000/840	107193
107187	PRIMA 1.5ft PIR PC 10000/840	x

Basic PIR settings: light time 5 min, ambient light control set to 2 lux
To change the settings, the HRC-11 remote control (12285) is required

PRIMA PIR PC COR digital dimmable DALI, plastic clips

Code	Type	M3hAt
107194	PRIMA 1.2ft PIR PC 1600/840 COR	x
107195	PRIMA 1.2ft PIR PC 2200/840 COR	x
107196	PRIMA 1.4ft PIR PC 3200/840 COR	107204
107197	PRIMA 1.4ft PIR PC 4400/840 COR	107205
107198	PRIMA 1.4ft PIR PC 6400/840 COR	107206
107199	PRIMA 1.4ft PIR PC 8000/840 COR	x
107200	PRIMA 1.5ft PIR PC 4000/840 COR	107207
107201	PRIMA 1.5ft PIR PC 5500/840 COR	107208
107202	PRIMA 1.5ft PIR PC 8000/840 COR	107209
107203	PRIMA 1.5ft PIR PC 10000/840 COR	x

Basic PIR COR settings: 5 min at 100% light level; 10 min at 20% light level, then 0%
To change the settings, the HRC-11 remote control (12285) is required

PRIMA PIR PCc non-dimmable, stainless clips

Code	Type	M3hAt
107210	PRIMA 1.2ft PIR PCc 1600/840	x
107211	PRIMA 1.2ft PIR PCc 2200/840	x
107212	PRIMA 1.4ft PIR PCc 3200/840	107220
107213	PRIMA 1.4ft PIR PCc 4400/840	107221
107214	PRIMA 1.4ft PIR PCc 6400/840	107222
107215	PRIMA 1.4ft PIR PCc 8000/840	x
107216	PRIMA 1.5ft PIR PCc 4000/840	107223
107217	PRIMA 1.5ft PIR PCc 5500/840	107224
107218	PRIMA 1.5ft PIR PCc 8000/840	107225
107219	PRIMA 1.5ft PIR PCc 10000/840	x

Basic PIR settings: light time 5 min, ambient light control set to 2 lux
To change the settings, the HRC-11 remote control (12285) is required

PRIMA PIR PCc COR digital dimmable DALI, stainless clips

Code	Type	M3hAt
107226	PRIMA 1.2ft PIR PCc 1600/840 COR	x
107227	PRIMA 1.2ft PIR PCc 2200/840 COR	x
107228	PRIMA 1.4ft PIR PCc 3200/840 COR	107236
107229	PRIMA 1.4ft PIR PCc 4400/840 COR	107237
107230	PRIMA 1.4ft PIR PCc 6400/840 COR	107238
107231	PRIMA 1.4ft PIR PCc 8000/840 COR	x
107232	PRIMA 1.5ft PIR PCc 4000/840 COR	107239
107233	PRIMA 1.5ft PIR PCc 5500/840 COR	107240
107234	PRIMA 1.5ft PIR PCc 8000/840 COR	107241
107235	PRIMA 1.5ft PIR PCc 10000/840 COR	x

Basic PIR COR settings: 5 min at 100% light level; 10 min at 20% light level, then 0%
To change the settings, the HRC-11 remote control (12285) is required

LEGEND

- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- COR** - version with digital dimmable driver DALI and set CORRIDOR function in **PIR sensor, setting with the HRC11 remote control**

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 PIR PC



PRIMA E-CON

NEW



... with external terminal block IP66 / IP69.

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.

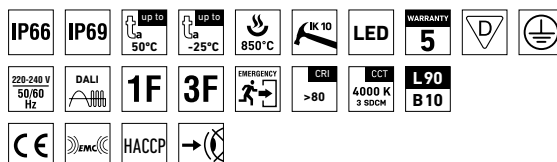
An external terminal block makes it easy and quick to connect the supply cable with no need to open the fitting.

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 407.

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
- Lifetime: 100 000 hours / L80B10
- 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
- On request CRI > 80: 3000 K, 5000 K, 6500 K
- CRI > 90: 3000 K, 4000 K, 5000 K, 6500 K
- Optional delivery in emergency version
- Eliminated risk of mechanical and electrostatic damage to LED chips
- Optional throughwiring (up to 5 wires inside the light fitting)

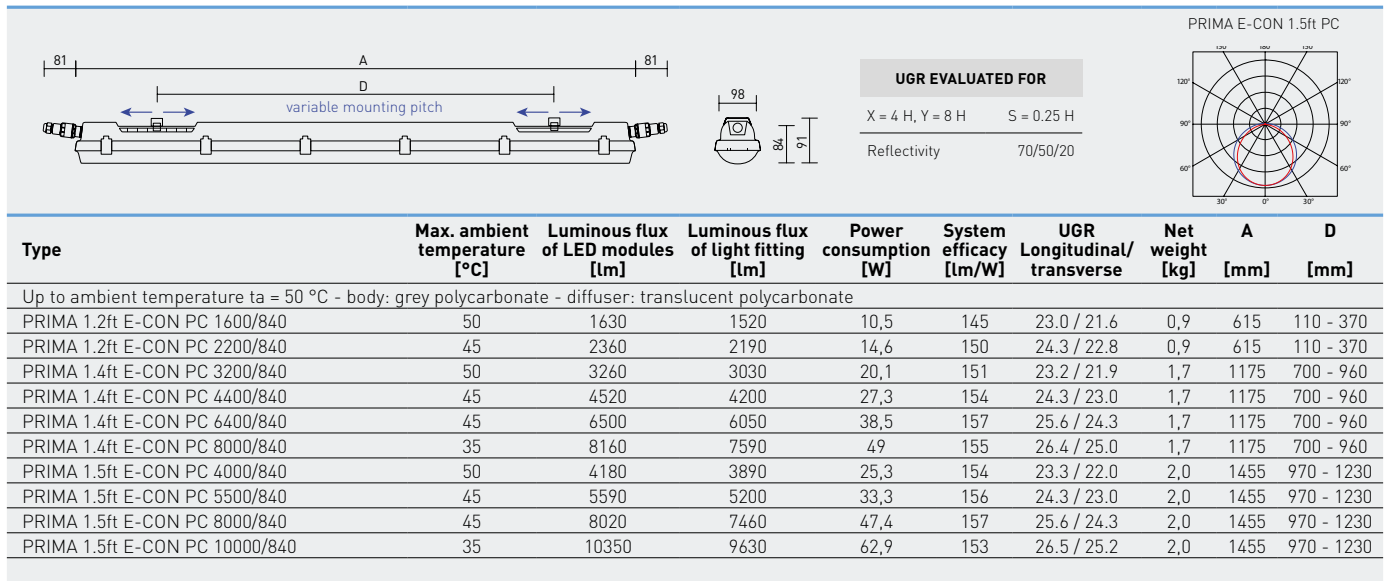


PRIMA E-CON PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **ta = 50 °C**
- Maximum ambient temperature: ta = 0-40°C for version with emergency back-up M3hAt
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: **157 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
- **External terminal block** 3 or 5-pole, conductor cross-sectional area: 1.5 or 2.5 mm²
- The values stated for power consumption and luminous flux are in a tolerance of ± 7.5 %



PRIMA E-CON PC

Type
PRIMA 1.2ft E-CON PC 1600/840
PRIMA 1.2ft E-CON PC 2200/840
PRIMA 1.4ft E-CON PC 3200/840
PRIMA 1.4ft E-CON PC 4400/840
PRIMA 1.4ft E-CON PC 6400/840
PRIMA 1.4ft E-CON PC 8000/840
PRIMA 1.5ft E-CON PC 4000/840
PRIMA 1.5ft E-CON PC 5500/840
PRIMA 1.5ft E-CON PC 8000/840
PRIMA 1.5ft E-CON PC 10000/840

Non-dimmable driver, plastic clips

	1x3P	1x5P	M3hAt 1x5P	2x3P	2x5P	M3hAt 2x5P
107608	107618	x	107634	107644	x	
107609	107619	x	107635	107645	x	
107610	107620	107628	107636	107646	107654	
107611	107621	107629	107637	107647	107655	
107612	107622	107630	107638	107648	107656	
107613	107623	x	107639	107649	x	
107614	107624	107631	107640	107650	107657	
107615	107625	107632	107641	107651	107658	
107616	107626	107633	107642	107652	107659	
107617	107627	x	107643	107653	x	

PRIMA E-CON PCc

Type
PRIMA 1.2ft E-CON PCc 1600/840
PRIMA 1.2ft E-CON PCc 2200/840
PRIMA 1.4ft E-CON PCc 3200/840
PRIMA 1.4ft E-CON PCc 4400/840
PRIMA 1.4ft E-CON PCc 6400/840
PRIMA 1.4ft E-CON PCc 8000/840
PRIMA 1.5ft E-CON PCc 4000/840
PRIMA 1.5ft E-CON PCc 5500/840
PRIMA 1.5ft E-CON PCc 8000/840
PRIMA 1.5ft E-CON PCc 10000/840

Non-dimmable driver, stainless clips [c]

	1x3P	1x5P	M3hAt 1x5P	2x3P	2x5P	M3hAt 2x5P
107692	107702	x	107718	107728	x	
107693	107703	x	107719	107729	x	
107694	107704	107712	107720	107730	107738	
107695	107705	107713	107721	107731	107739	
107696	107706	107714	107722	107732	107740	
107697	107707	x	107723	107733	x	
107698	107708	107715	107724	107734	107741	
107699	107709	107716	107725	107735	107742	
107700	107710	107717	107726	107736	107743	
107701	107711	x	107727	107737	x	

PRIMA E-CON PC DALI

Digital dimmable driver DALI, plastic clips

Type	DALI 1x5P	DALI M3hAt 1x5P	DALI 2x5P	DALI M3hAt 2x5P
PRIMA 1.2ft E-CON PC 1600/840	107660	x	107676	x
PRIMA 1.2ft E-CON PC 2200/840	107661	x	107677	x
PRIMA 1.4ft E-CON PC 3200/840	107662	107670	107678	107686
PRIMA 1.4ft E-CON PC 4400/840	107663	107671	107679	107687
PRIMA 1.4ft E-CON PC 6400/840	107664	107672	107680	107688
PRIMA 1.4ft E-CON PC 8000/840	107665	x	107681	x
PRIMA 1.5ft E-CON PC 4000/840	107666	107673	107682	107689
PRIMA 1.5ft E-CON PC 5500/840	107667	107674	107683	107690
PRIMA 1.5ft E-CON PC 8000/840	107668	107675	107684	107691
PRIMA 1.5ft E-CON PC 10000/840	107669	x	107685	x

PRIMA E-CON PCc DALI

Digital dimmable driver DALI, stainless clips (c)

Type	DALI 1x5P	DALI M3hAt 1x5P	DALI 2x5P	DALI M3hAt 2x5P
PRIMA 1.2ft E-CON PCc 1600/840	107744	x	107760	x
PRIMA 1.2ft E-CON PCc 2200/840	107745	x	107761	x
PRIMA 1.4ft E-CON PCc 3200/840	107746	107754	107762	107770
PRIMA 1.4ft E-CON PCc 4400/840	107747	107755	107763	107771
PRIMA 1.4ft E-CON PCc 6400/840	107748	107756	107764	107772
PRIMA 1.4ft E-CON PCc 8000/840	107749	x	107765	x
PRIMA 1.5ft E-CON PCc 4000/840	107750	107757	107766	107773
PRIMA 1.5ft E-CON PCc 5500/840	107751	107758	107767	107774
PRIMA 1.5ft E-CON PCc 8000/840	107752	107759	107768	107775
PRIMA 1.5ft E-CON PCc 10000/840	107753	x	107769	x

LEGEND

- 1x3P** - a version featuring a non-dimmable ballast and a single 3-pole external terminal block
- 1x5P** - a version featuring a non-dimmable ballast and a single 5-pole external terminal block
- M3hAt 1x5P** - emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting and a single 5-pole external terminal block
- 2x3P** - a version featuring a non-dimmable ballast, two 3-pole external terminal blocks and 3-wire connecting cables (1F), for continuous row installation
- 2x5P** - a version featuring a non-dimmable ballast, two 5-pole external terminal blocks and 5-wire connecting cables (3F), for continuous row installation
- M3hAt 2x5P** - emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting, two 5-pole external terminal blocks and 5-wire connecting cables (3F), for continuous row installation
- DALI 1x5P** - a version featuring a digitally dimmable ballast and a single 5-pole external terminal block
- DALI M3hAt 1x5P** - a version featuring a digitally dimmable ballast, emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting and a single 5-pole external terminal block
- DALI 2x5P** - a version featuring a digitally dimmable ballast, two 5-pole external terminal blocks and 5-wire connecting cables (DALI 1F), for continuous row installation
- DALI M3hAt 2x5P** - a version featuring a digitally dimmable ballast, emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting, two 5-pole external terminal blocks 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



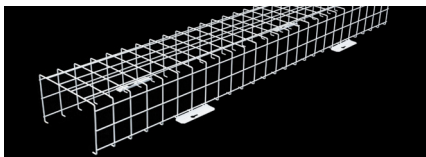
LIGHT FITTING DETAILED VIEW

PRIMA E-CON PC



OM – protective grid

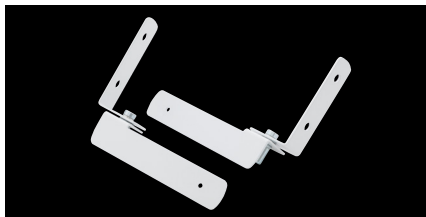
The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws.
The surface is treated with the RAL 9003 powder-coated colour.



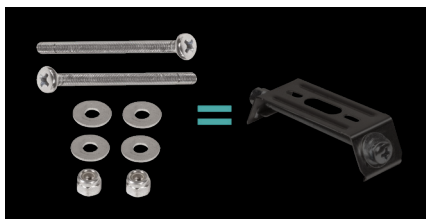
Code	Type	Description	Weight [kg]
11941	OM 218	protective grid for types 218, 214/224, 2.2ft (700×220×130 mm)	1,0
11942	OM 236	protective grid for types 236, 228/254, 2.4ft (1300×220×130 mm)	1,7
11943	OM 258	protective grid for types 258, 235/249/280, 2.5ft (1600×220×130 mm)	2,0

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

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



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INNOVA



INDUSTRIAL
PLASTIC
IP66 / IP69



INNOVA – industrial plastic LED light fitting

INNOVA
page 136



IP66 | **IP69**

INNOVA PC
page 136

INNOVA
FOR HIGH CEILINGS
page 139



IP66 | **IP69**

INNOVA NB PC
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INNOVA
FOR LOW CEILINGS
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IP66 | **IP69**

INNOVA WB PC
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INNOVA - CHEMICALLY
RESISTANT VERSION
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IP66 | **IP69**

INNOVA ABS
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INNOVA FOR HIGH CEIL-
INGS - CHEMICALLY
RESISTANT VERSION
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IP66 | **IP69**

INNOVA NB ABS
page 148

INNOVA FOR LOW
CEILINGS - CHEMICALLY
RESISTANT VERSION
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IP66 | **IP69**

INNOVA WB ABS
page 151

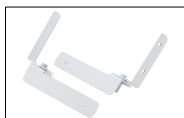
INNOVA FOR BOTH
DIRECT AND INDIRECT
ILLUMINA
page 154



IP66 | **IP69**

INNOVA TRS
page 154

INNOVA
ACCESSORIES
page 157



INNOVA
ACCESSORIES
page 157

INNOVA



BIM
ready

... 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.

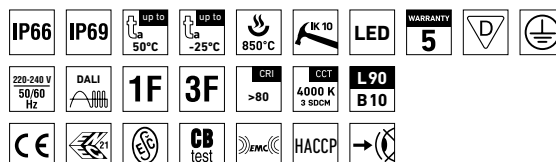
The light fitting resists dust, humidity and washing with spouting water up to 80 °C. The body and the diffuser made of PC material have high mechanical resistance against impact and deformation.

An **external terminal block** makes it easy and quick to connect the supply cable.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25\text{ °C}$ to **$t_a = 50\text{ °C}$**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- 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 block makes it easy to connect the supply cable**
- 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: **ESĀ, ENEC, CB, HACCP**

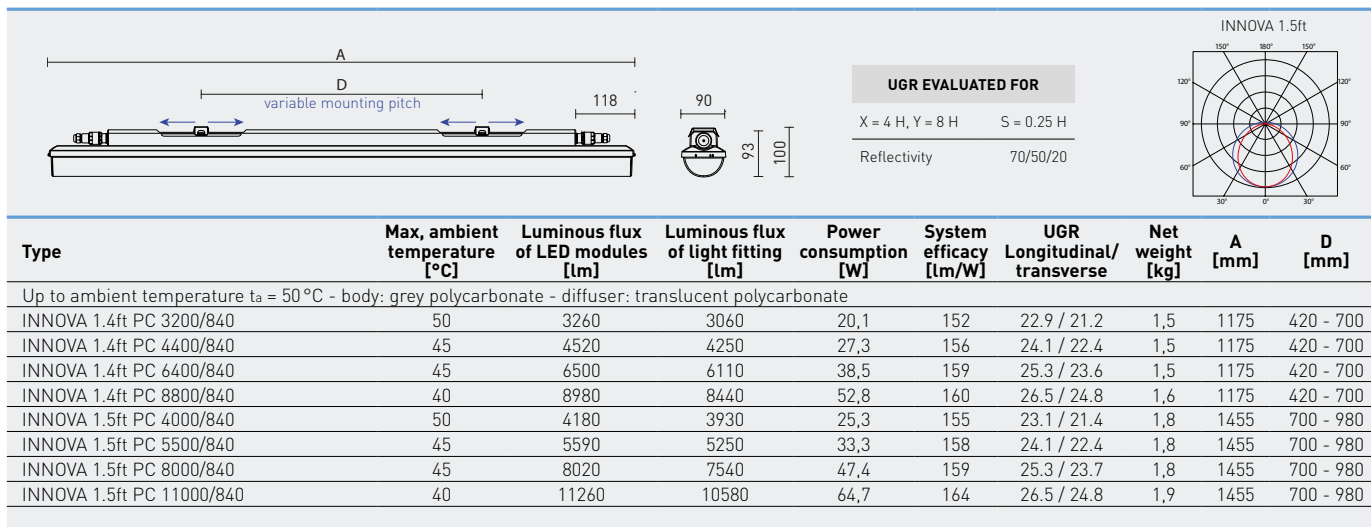


INNOVA PC



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **t_a = 50 °C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- 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)
- Snap-in mounting clips: stainless steel
- Ventilation membrane in the base eliminating vacuum and condensate build-up
- 3 or 5-pole **external terminal block**, 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 ± 7,5 %



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

Diffuser made of translucent polycarbonate

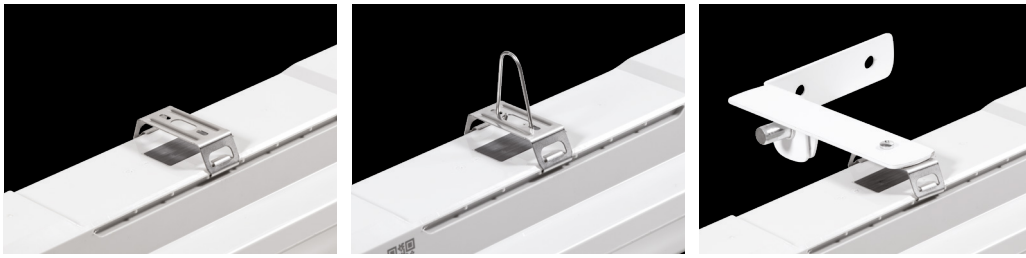
Type	1x3P	1x5P	DALI 1x5P	2x3P	2x5P	DALI 2x5P
INNOVA 1.4ft PC 3200/840	31515	31523	31531	31539	31547	31555
INNOVA 1.4ft PC 4400/840	31516	31524	31532	31540	31548	31556
INNOVA 1.4ft PC 6400/840	31517	31525	31533	31541	31549	31557
INNOVA 1.4ft PC 8800/840	31518	31526	31534	31542	31550	31558
INNOVA 1.5ft PC 4000/840	31519	31527	31535	31543	31551	31559
INNOVA 1.5ft PC 5500/840	31520	31528	31536	31544	31552	31560
INNOVA 1.5ft PC 8000/840	31521	31529	31537	31545	31553	31561
INNOVA 1.5ft PC 11000/840	31522	31530	31538	31546	31554	31562

LEGEND

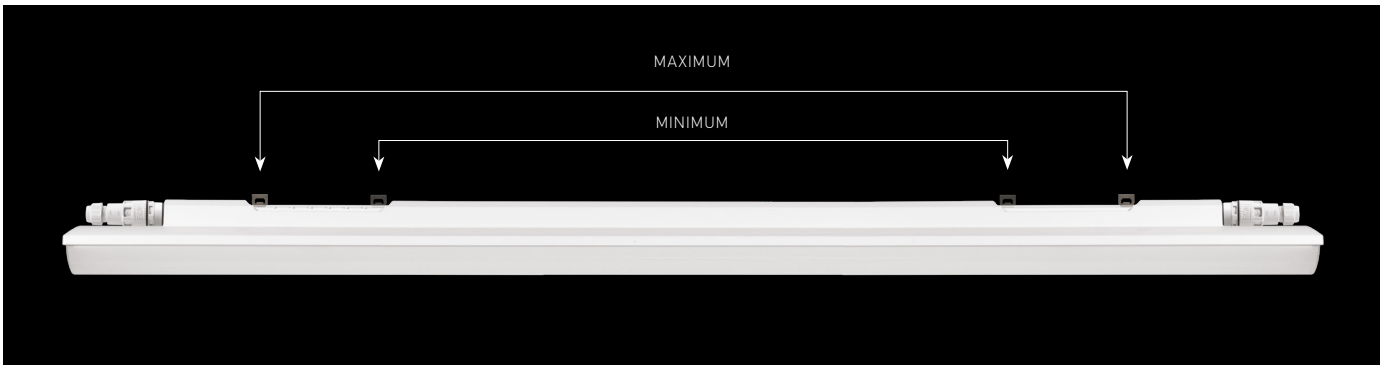
- 1x3P** - a version featuring a non-dimmable ballast and a single 3-pole external terminal block
- 1x5P** - a version featuring a non-dimmable ballast and a single 5-pole external terminal block
- DALI 1x5P** - a version featuring a digitally dimmable ballast and a single 5-pole external terminal block
- 2x3P** - a version featuring a non-dimmable ballast, two 3-pole external terminal blocks and 3-wire connecting cables (1F), for continuous row installation
- 2x5P** - a version featuring a non-dimmable ballast, two 5-pole external terminal blocks and 5-wire connecting cables (3F), for continuous row installation
- DALI 2x5P** - a version featuring a digitally dimmable ballast, two 5-pole external terminal blocks 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 block is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture.

Interconnection of light fittings without spacing



LIGHT FITTING DETAILED VIEW

INNOVA PC



INNOVA NB



BIM
ready

... 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.

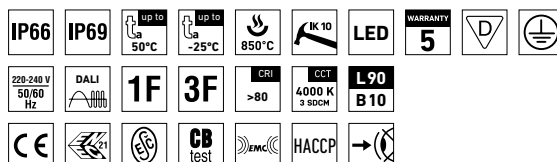
The light fitting resists dust, humidity and washing with spouting water up to 80°C. The body and the diffuser made of PC material have high mechanical resistance against impact and deformation.

An **external terminal block** makes it easy and quick to connect the supply cable.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

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
- Lifetime: 100 000 hours / L80B10
- 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 block makes it easy to connect the supply cable**
- 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: **ESĀ, ENEC, CB, HACCP**

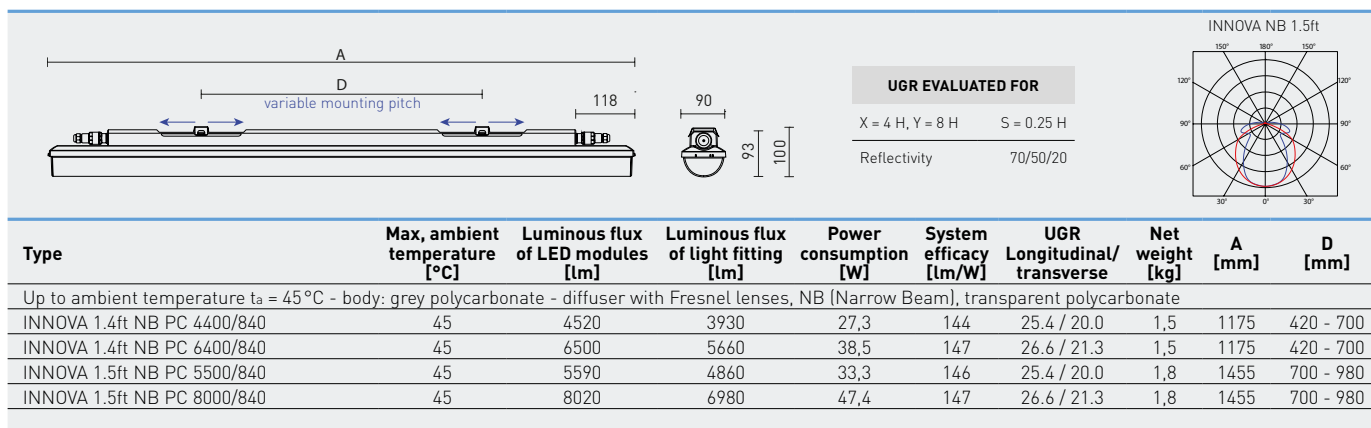


INNOVA NB PC



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **t_a = 45 °C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: 147 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 block**, 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 ± 7,5 %



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	31563	31567	31571	31575	31579	31583
INNOVA 1.4ft NB PC 6400/840	31564	31568	31572	31576	31580	31584
INNOVA 1.5ft NB PC 5500/840	31565	31569	31573	31577	31581	31585
INNOVA 1.5ft NB PC 8000/840	31566	31570	31574	31578	31582	31586

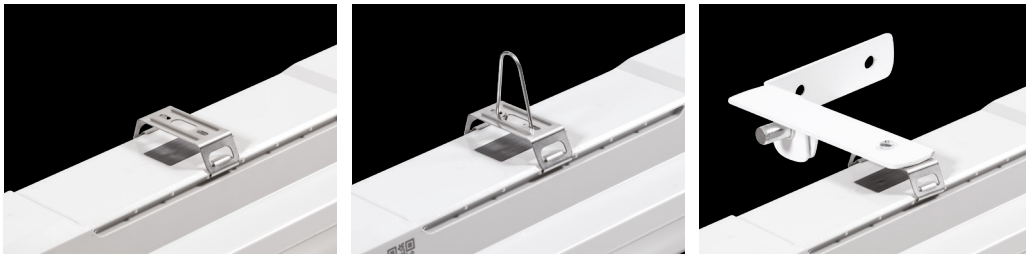
Example of type marking: 31572 = INNOVA 1.4ft NB PC 6400/840 **DALI 1x5P**

LEGEND

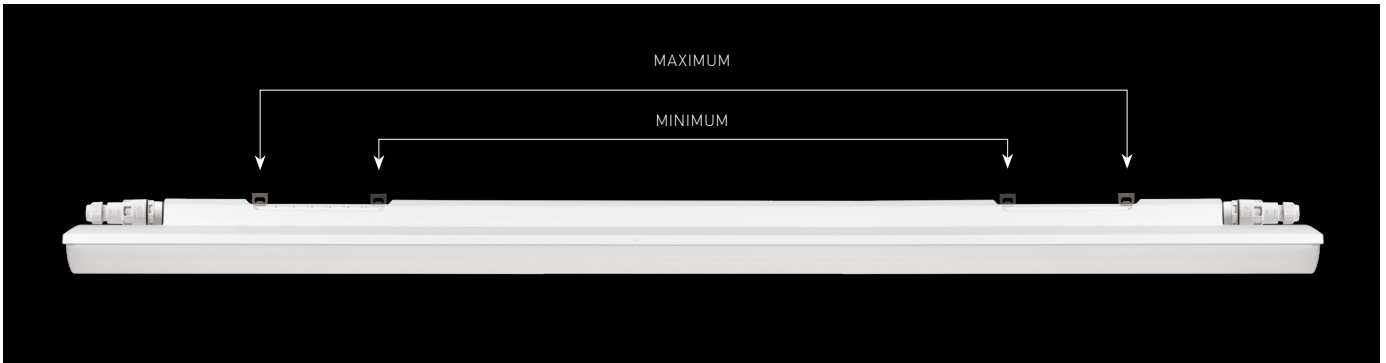
- 1x3P** - a version featuring a non-dimmable ballast and a single 3-pole external terminal block
- 1x5P** - a version featuring a non-dimmable ballast and a single 5-pole external terminal block
- DALI 1x5P** - a version featuring a digitally dimmable ballast and a single 5-pole external terminal block
- 2x3P** - a version featuring a non-dimmable ballast, two 3-pole external terminal blocks and 3-wire connecting cables (1F), for continuous row installation
- 2x5P** - a version featuring a non-dimmable ballast, two 5-pole external terminal blocks and 5-wire connecting cables (3F), for continuous row installation
- DALI 2x5P** - a version featuring a digitally dimmable ballast, two 5-pole external terminal blocks 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 block is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture.

Interconnection of light fittings without spacing



LIGHT FITTING DETAILED VIEW

INNOVA NB



INNOVA WB



BIM
ready

... 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 5 m, 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.

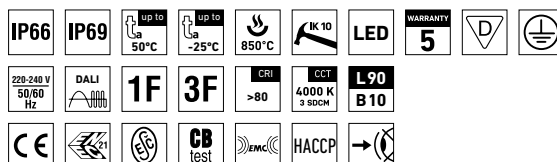
The light fitting resists dust, humidity and washing with spouting water up to 80 °C. The body and the diffuser made of PC material have high mechanical resistance against impact and deformation.

An **external terminal block** makes it easy and quick to connect the supply cable.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25\text{ °C}$ to $t_a = 50\text{ °C}$
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- 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 block makes it easy to connect the supply cable**
- 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: **ESĀ, ENEC, CB, HACCP**

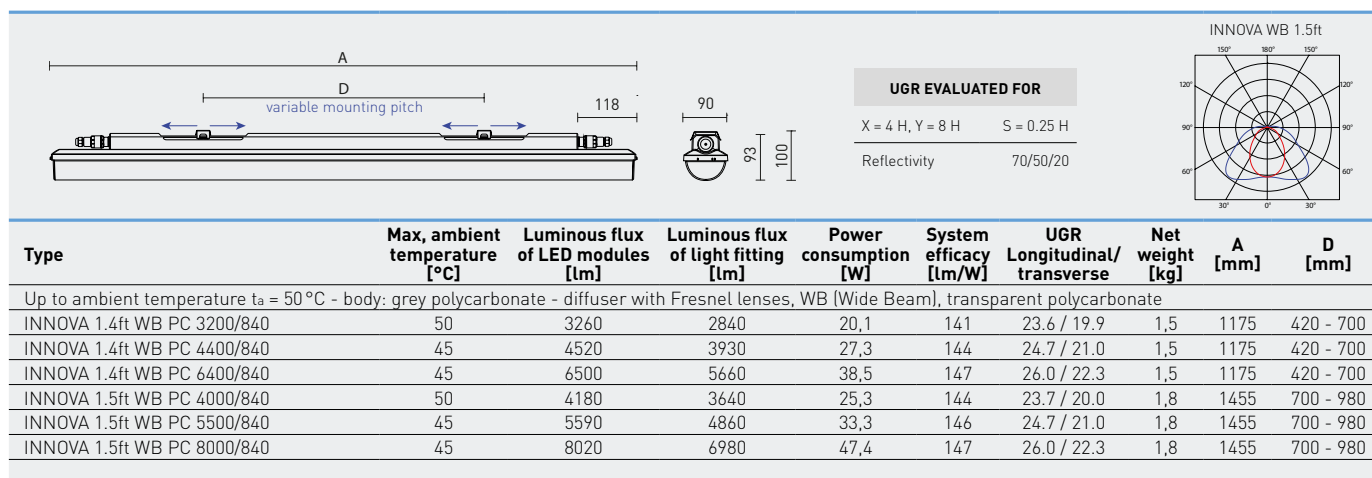


INNOVA WB PC



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **t_a = 50 °C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: 147 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 block**, 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 ± 7,5 %



INNOVA WB

Diffuser with Fresnel lenses, Wide Beam, transparent polycarbonate

Type	1x3P	1x5P	DALI 1x5P	2x3P	2x5P	DALI 2x5P
INNOVA 1.4ft WB PC 3200/840	31587	31593	31599	31605	31611	31618
INNOVA 1.4ft WB PC 4400/840	31588	31594	31600	31606	31612	31619
INNOVA 1.4ft WB PC 6400/840	31589	31595	31601	31607	31613	31620
INNOVA 1.5ft WB PC 4000/840	31590	31596	31602	31608	31615	31621
INNOVA 1.5ft WB PC 5500/840	31591	31597	31603	31609	31616	31622
INNOVA 1.5ft WB PC 8000/840	31592	31598	31604	31610	31617	31623

Example of type marking: 31601 = 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 block
- 1x5P** - a version featuring a non-dimmable ballast and a single 5-pole external terminal block
- DALI 1x5P** - a version featuring a digitally dimmable ballast and a single 5-pole external terminal block
- 2x3P** - a version featuring a non-dimmable ballast, two 3-pole external terminal blocks and 3-wire connecting cables (1F), for continuous row installation
- 2x5P** - a version featuring a non-dimmable ballast, two 5-pole external terminal blocks and 5-wire connecting cables (3F), for continuous row installation
- DALI 2x5P** - a version featuring a digitally dimmable ballast, two 5-pole external terminal blocks 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 block is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture.

Interconnection of light fittings without spacing



LIGHT FITTING DETAILED VIEW

INNOVA WB



INNOVA ABS



BIM
ready



... 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.

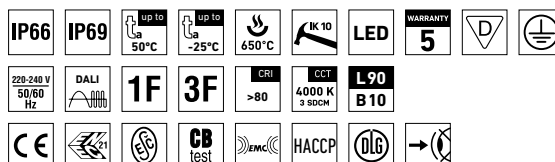
The light fitting resists dust, humidity and washing with spouting water up to 80°C. The body and the diffuser made of ABS material have high chemical resistance.

An **external terminal block** makes it easy and quick to connect the supply cable.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

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
- Lifetime: 100 000 hours / L80B10
- 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 block makes it easy to connect the supply cable**
- 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: **ESĀ, ENEC, CB, DLG, HACCP**

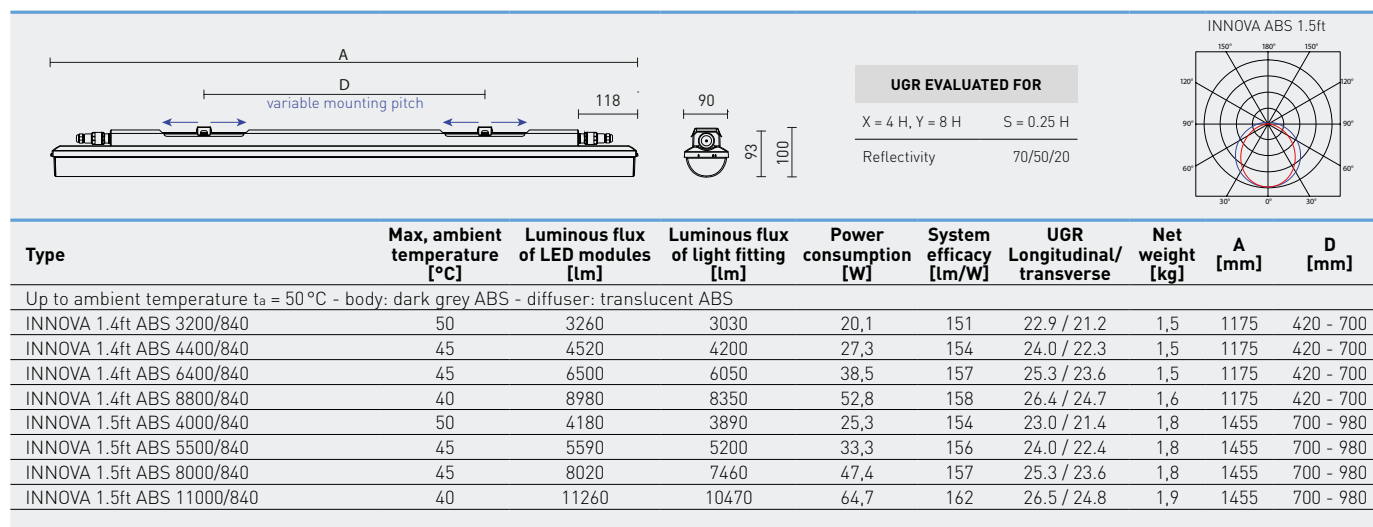


INNOVA ABS



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **t_a = 50 °C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: 162 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 block**, 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 ± 7,5 %



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

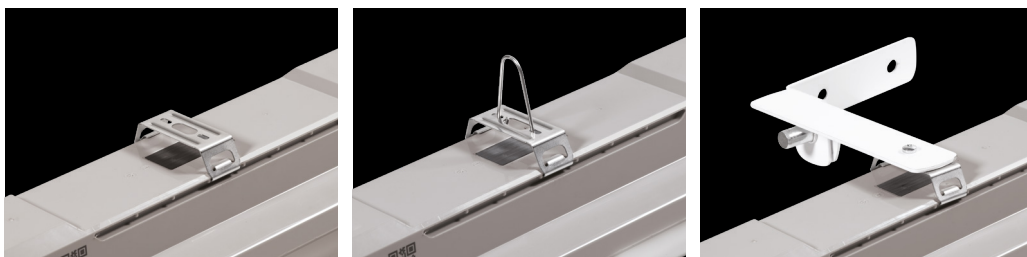
Type	1x3P	1x5P	DALI 1x5P	2x3P	2x5P	DALI 2x5P
INNOVA 1.4ft ABS 3200/840	31624	31632	31640	31648	31656	31664
INNOVA 1.4ft ABS 4400/840	31625	31633	31641	31649	31657	31665
INNOVA 1.4ft ABS 6400/840	31626	31634	31642	31650	31658	31666
INNOVA 1.4ft ABS 8800/840	31627	31635	31643	31651	31659	31667
INNOVA 1.5ft ABS 4000/840	31628	31636	31644	31652	31660	31668
INNOVA 1.5ft ABS 5500/840	31629	31637	31645	31653	31661	31669
INNOVA 1.5ft ABS 8000/840	31630	31638	31646	31654	31662	31670
INNOVA 1.5ft ABS 11000/840	31631	31639	31647	31655	31663	31671

LEGEND

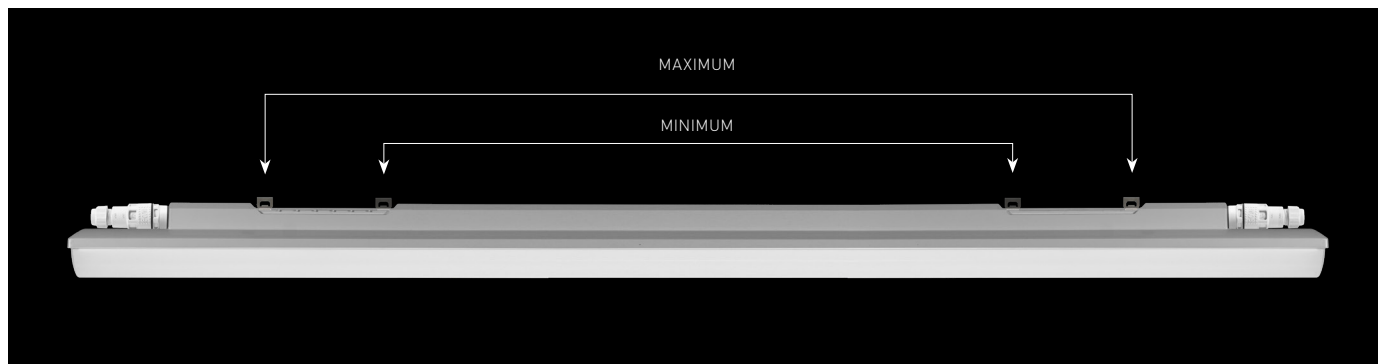
- 1x3P** - a version featuring a non-dimmable ballast and a single 3-pole external terminal block
- 1x5P** - a version featuring a non-dimmable ballast and a single 5-pole external terminal block
- DALI 1x5P** - a version featuring a digitally dimmable ballast and a single 5-pole external terminal block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



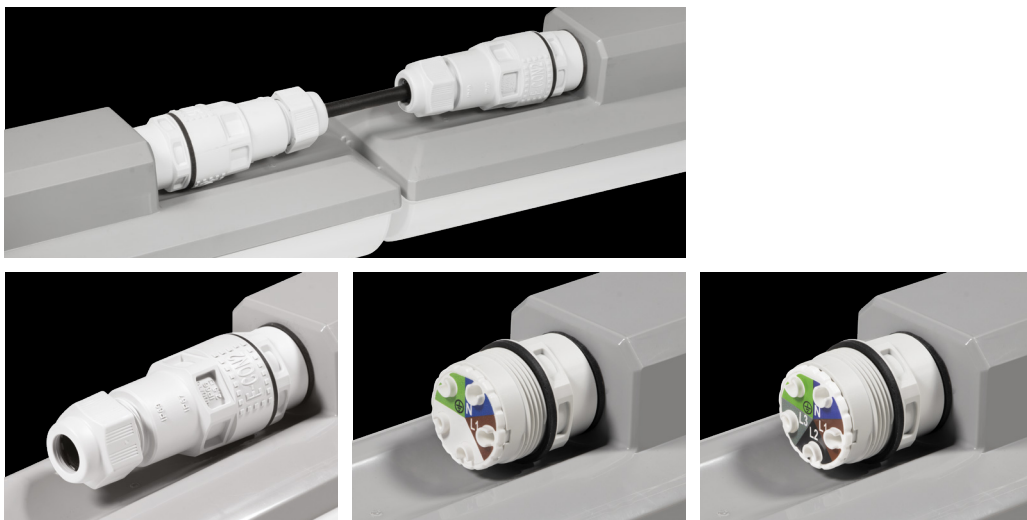
VARIABLE INSTALLATION PITCH



LIGHT FITTING INTERCONNECTION

An external terminal block is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture.

Interconnection of light fittings without spacing



LIGHT FITTING DETAILED VIEW

INNOVA ABS



INNOVA NB ABS



BIM
ready



... 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.

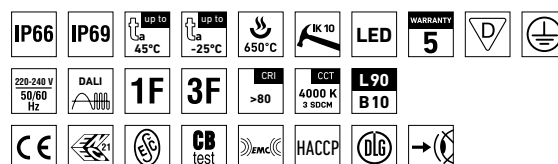
The light fitting resists dust, humidity and washing with spouting water up to 80 °C. The body and the diffuser made of ABS material have high chemical resistance.

An **external terminal block** makes it easy and quick to connect the supply cable.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66 / IP69**
- High temperature resistance in a range from $t_a = -25\text{ °C}$ to $t_a = 45\text{ °C}$
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- 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 block makes it easy to connect the supply cable**
- 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: **ESÇ, ENEC, CB, DLG, HACCP**

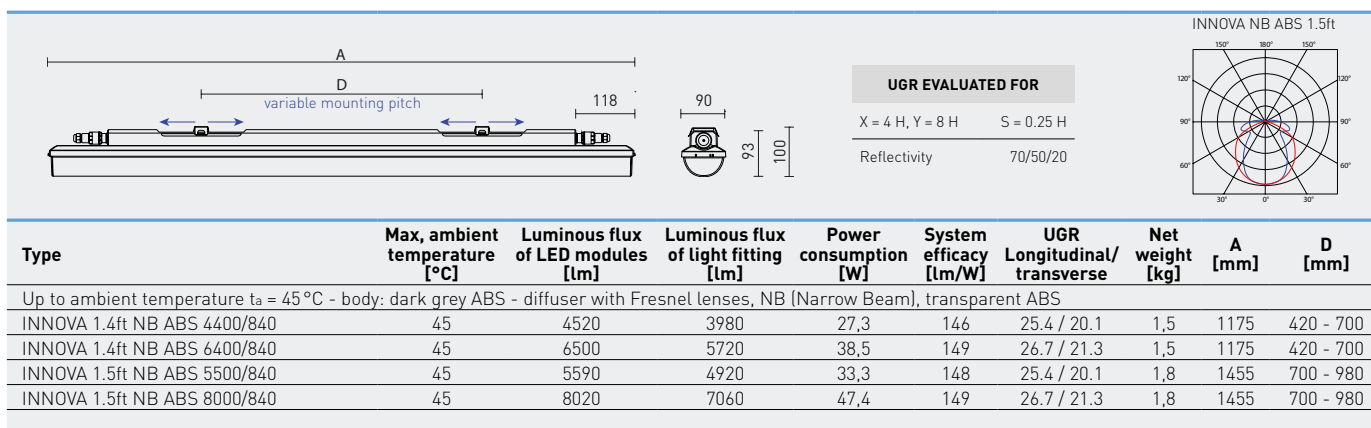


INNOVA NB ABS



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **t_a = 45 °C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: 151 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 block**, 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 ± 7,5 %



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	31672	31676	31680	31684	31688	31692
INNOVA 1.4ft NB ABS 6400/840	31673	31677	31681	31685	31689	31693
INNOVA 1.5ft NB ABS 5500/840	31674	31678	31682	31686	31690	31694
INNOVA 1.5ft NB ABS 8000/840	31675	31679	31683	31687	31691	31695

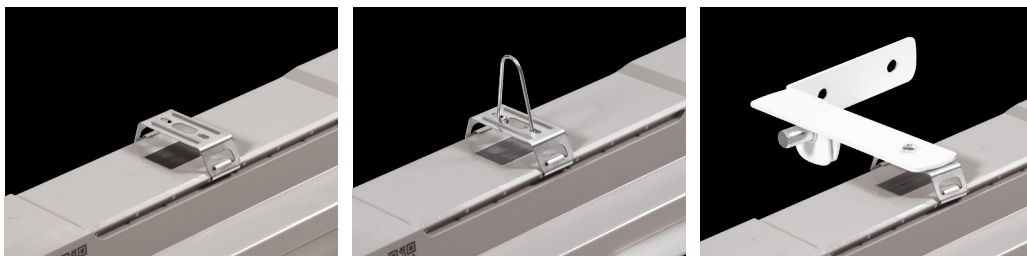
Example of type marking: 31681 = INNOVA 1.4ft NB ABS 6400/840 **DALI 1x5P**

LEGEND

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



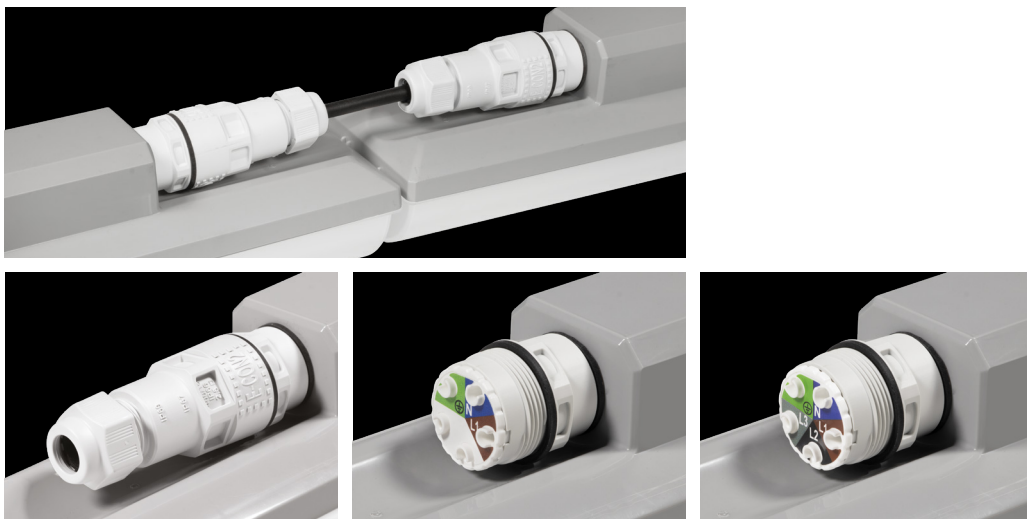
VARIABLE INSTALLATION PITCH



LIGHT FITTING INTERCONNECTION

An external terminal block is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture.

Interconnection of light fittings without spacing



LIGHT FITTING DETAILED VIEW

INNOVA NB ABS



INNOVA WB ABS



BIM
ready



... 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.

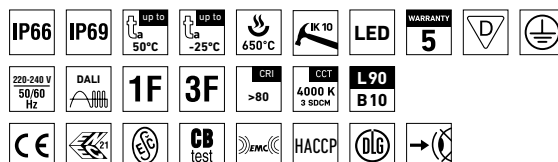
The light fitting resists dust, humidity and washing with spouting water up to 80°C. The body and the diffuser made of ABS material have high chemical resistance.

An **external terminal block** makes it easy and quick to connect the supply cable.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

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
- Lifetime: 100 000 hours / L80B10
- 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 block makes it easy to connect the supply cable**
- 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: **ESĀ, ENEC, CB, DLG, HACCP**

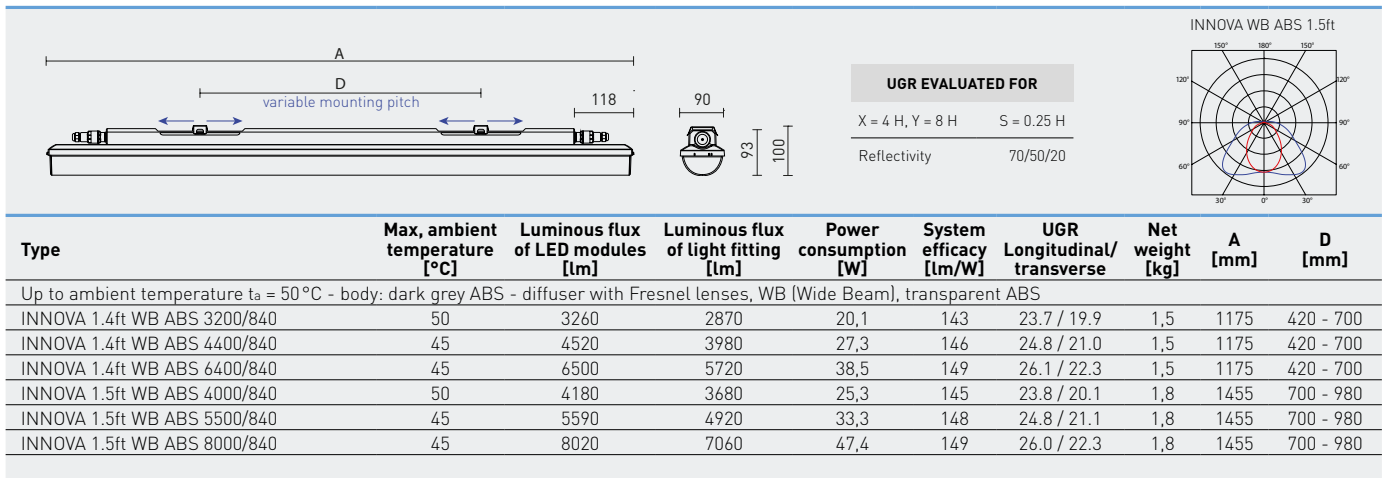


INNOVA WB ABS



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **t_a = 50 °C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: 151 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 block**, 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 ± 7,5 %



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 3200/840	31696	31702	31708	31715	31721	31727
INNOVA 1.4ft WB ABS 4400/840	31697	31703	31709	31716	31722	31728
INNOVA 1.4ft WB ABS 6400/840	31698	31704	31710	31717	31723	31729
INNOVA 1.5ft WB ABS 4000/840	31699	31705	31711	31718	31724	31730
INNOVA 1.5ft WB ABS 5500/840	31700	31706	31712	31719	31725	31731
INNOVA 1.5ft WB ABS 8000/840	31701	31707	31713	31720	31726	31732

Example of type marking: 31710 = INNOVA 1.4ft WB ABS 6400/840 **DALI 1x5P**

LEGEND

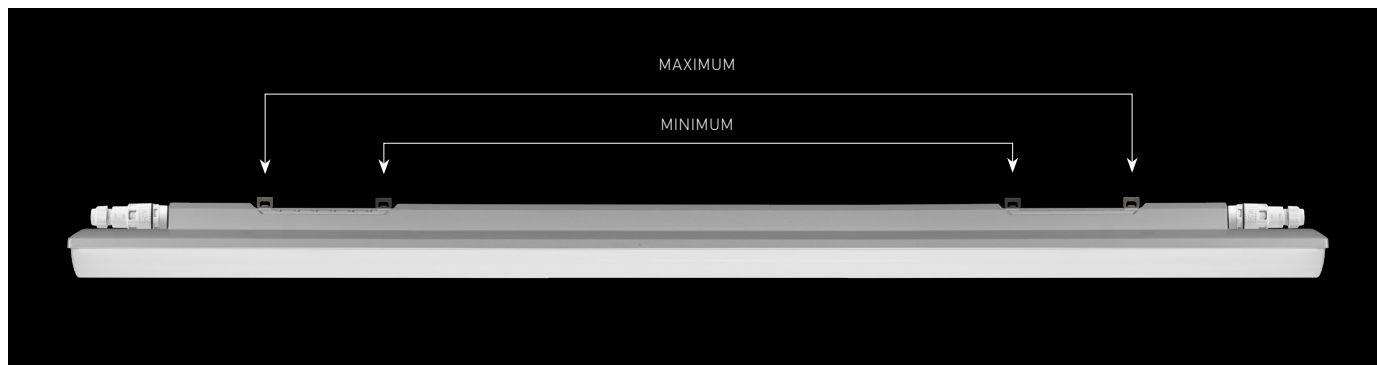
- 1x3P** - a version featuring a non-dimmable ballast and a single 3-pole external terminal block
- 1x5P** - a version featuring a non-dimmable ballast and a single 5-pole external terminal block
- DALI 1x5P** - a version featuring a digitally dimmable ballast and a single 5-pole external terminal block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



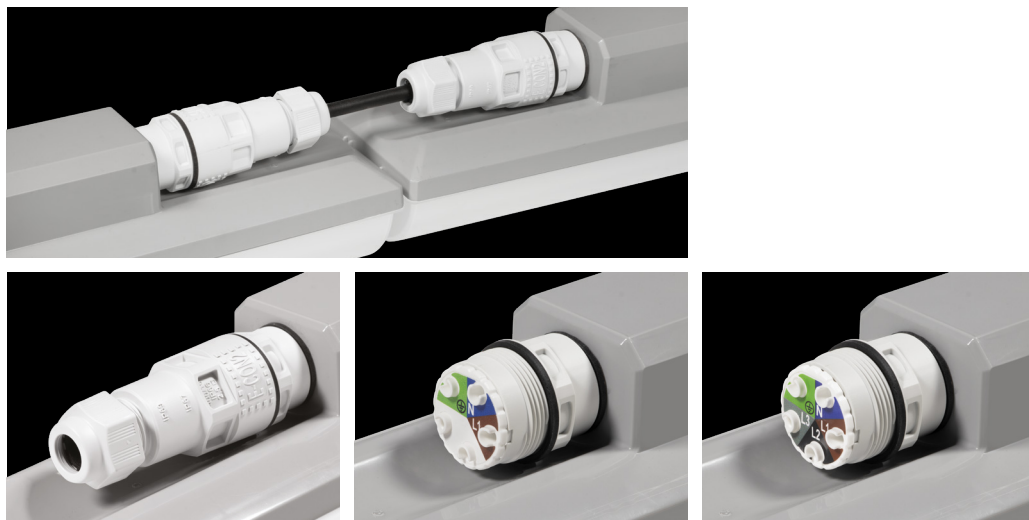
VARIABLE INSTALLATION PITCH



LIGHT FITTING INTERCONNECTION

An external terminal block is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture.

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.

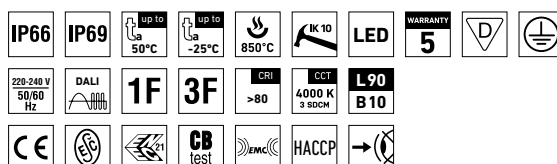
The light fitting resists dust, humidity and washing with spouting water up to 80°C. The body and the diffuser made of PC material have high mechanical resistance against impact and deformation.

An **external terminal block** makes it easy and quick to connect the supply cable.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

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
- Lifetime: 100 000 hours / L80B10
- 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 block makes it easy to connect the supply cable**
- 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: **ESĀ, ENEC, CB, HACCP**

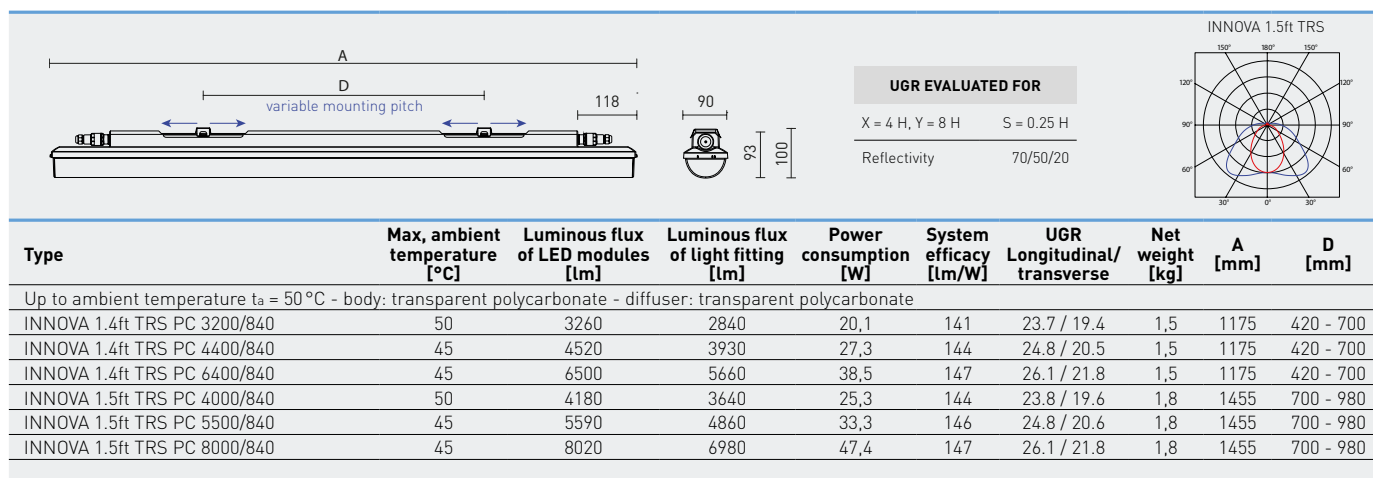


INNOVA TRS PC



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66 / IP69**
- Maximum ambient temperature: **t_a = 50 °C**
- Lifetime: 50 000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- Maximum light fitting efficiency: 150 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 block**, 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 ± 7,5 %



INNOVA TRS

Diffuser: transparent polycarbonate

Type	1x3P	1x5P	DALI 1x5P	2x3P	2x5P	DALI 2x5P
INNOVA 1.4ft TRS PC 3200/840	31733	31739	31745	31751	31757	31763
INNOVA 1.4ft TRS PC 4400/840	31734	31740	31746	31752	31758	31764
INNOVA 1.4ft TRS PC 6400/840	31735	31741	31747	31753	31759	31765
INNOVA 1.5ft TRS PC 4000/840	31736	31742	31748	31754	31760	31766
INNOVA 1.5ft TRS PC 5500/840	31737	31743	31749	31755	31761	31767
INNOVA 1.5ft TRS PC 8000/840	31738	31744	31750	31756	31762	31768

Example of type marking: 31747 = 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 block
- 1x5P** - a version featuring a non-dimmable ballast and a single 5-pole external terminal block
- DALI 1x5P** - a version featuring a digitally dimmable ballast and a single 5-pole external terminal block
- 2x3P** - a version featuring a non-dimmable ballast, two 3-pole external terminal blocks and 3-wire connecting cables (1F), for continuous row installation
- 2x5P** - a version featuring a non-dimmable ballast, two 5-pole external terminal blocks and 5-wire connecting cables (3F), for continuous row installation
- DALI 2x5P** - a version featuring a digitally dimmable ballast, two 5-pole external terminal blocks 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 block is used to ensure the supply cable can easily and quickly be connected with no need to open the light fixture.

Interconnection of light fittings without spacing



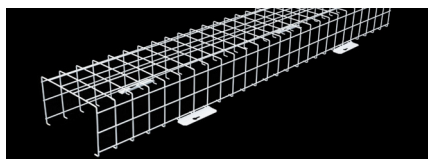
LIGHT FITTING DETAILED VIEW

INNOVA TRS



OM – protective grid

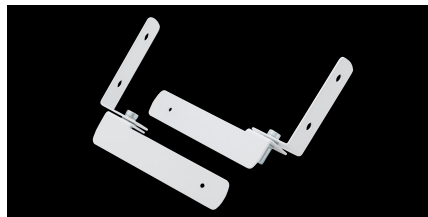
The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws. The surface is treated with the RAL 9003 powder-coated colour.



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

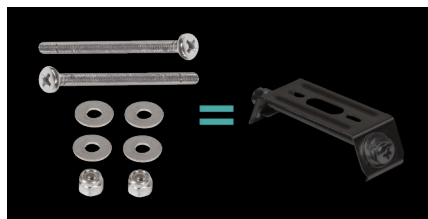
BZ – side hanger

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

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
BASIC VERSION
page 160



IP66

FUTURA
PC Al, PCc Al
page 160

FUTURA
FOR HIGH CEILINGS
page 163



IP66

FUTURA NB
PC Al, PCc Al
page 163

FUTURA
ENERGY SAVER
page 166



IP66

FUTURA ES
PC Al, PCc Al
page 166

FUTURA
HIGH EFFICIENCY
SULPHUR RESISTANT
page 169



IP66

FUTURA HE
PC Al, PCc Al
page 169

FUTURA FOR EXTREME
TEMPERATURES
page 172



IP66

FUTURA MAX
PCc Al
page 172

FUTURA
FOR OUTDOOR SPACES
page 175



IP66

FUTURA VP
PC Al, VP PCc Al
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FUTURA
CHEMICALLY RESISTANT
VERSION
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IP66

FUTURA
ABS Al, ABSc Al
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FUTURA
ENERGY SAVER
CHEMICALLY RESISTANT
page 181



IP66

FUTURA ES
ABS Al, ABSc Al
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FUTURA
HIGH EFFICIENCY
CHEMICALLY RESISTANT
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IP66

FUTURA HE
ABS Al, ABSc Al
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FUTURA
CLASS II INSULATION
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IP66

FUTURA CLASS II
PC Al, PCc Al
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FUTURA
WITH MICROWAVE
MOTION SENSOR
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IP65

FUTURA SNS
PC Al, PCc Al
page 190

FUTURA
WITH INFRARED
MOTION SENSOR
page 193



IP66

FUTURA PIR
PC Al, PCc Al
page 193

FUTURA
WITH EXTERNAL
TERMINAL BLOCK
page 196



IP66

FUTURA E-CON
PC Al, PCc Al
page 196

FUTURA
ACCESSORIES
page 199



FUTURA
ACCESSORIES
page 199



EUROPEAN UNION
EUROPEAN REGIONAL DEVELOPMENT FUND
INVESTMENT IN YOUR FUTURE

FUTURA



BIM
ready

... dustproof, waterproof and impact-resistant, MultiLumen.

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.

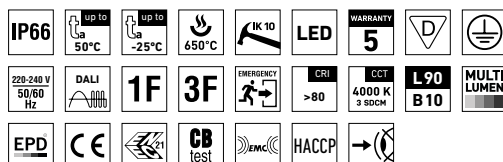
Thanks to the MultiLumen function, the luminaire can be adjusted for changing lighting requirements without much effort.

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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- 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

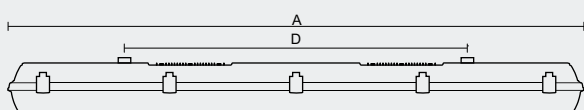


FUTURA PC AL, PCc AL

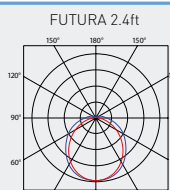


TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-40^\circ\text{C}$ (version with emergency back-up M3hAt)
- Maximum system efficacy: 167 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
- Lifetime: 100,000 hours / L80B10
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- 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



UGR EVALUATED FOR		
X = 4 H, Y = 8 H	S = 0,25 H	
Reflectivity	70/50/20	



Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Preselected Step 1 of MultiLumen function				Net weight [kg]	A [mm]	D [mm]
			Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/transverse			
For ambient temperature $t_a = 50^\circ\text{C}$ - body: grey polycarbonate with Al coolers - diffuser: translucent polycarbonate									
FUTURA 2.2ft PC AL 3200/840 *	50	3250	3060	20,1	152	24.2 / 22.1	1,45	612	475
FUTURA 2.2ft PC AL 4400/840 *	45	4680	4400	28,3	155	25.4 / 23.5	1,45	612	475
FUTURA 2.4ft PC AL 6400/840 *	50	6520	6130	38,4	160	24.4 / 22.5	2,45	1172	700
FUTURA 2.4ft PC AL 8800/840 *	45	8980	8440	52,8	160	25.5 / 23.6	2,45	1172	700
FUTURA 2.4ft PC AL 12800/840	35	12920	12140	74,8	162	26.7 / 24.9	2,65	1172	700
FUTURA 2.5ft PC AL 8000/840 *	50	8330	7830	48,3	162	24.5 / 22.6	2,95	1452	940
FUTURA 2.5ft PC AL 11000/840	45	11260	10580	64,7	164	25.5 / 23.7	2,95	1452	940
FUTURA 2.5ft PC AL 16000/840	35	16100	15130	92,7	163	26.7 / 24.9	3,25	1452	940

*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
FUTURA 2.2ft PC AL 3200/840 ML	2650	17,3	153	2240	14,5	154	1810	12,3	147
FUTURA 2.2ft PC AL 4400/840 ML	3830	24,2	158	3240	20,3	160	2610	16,4	159
FUTURA 2.4ft PC AL 6400/840 ML	5310	32,9	161	4470	27,4	163	3630	22,0	165
FUTURA 2.4ft PC AL 8800/840 ML	7320	44,9	163	6190	37,4	166	5020	30,1	167
FUTURA 2.5ft PC AL 8000/840 ML	6790	41,5	164	5740	34,6	166	4640	27,9	166

FUTURA PC AL

Code	Type
75020	FUTURA 2.2ft PC AL 3200/840 ML
75030	FUTURA 2.2ft PC AL 4400/840 ML
75050	FUTURA 2.4ft PC AL 6400/840 ML
75060	FUTURA 2.4ft PC AL 8800/840 ML
75410	FUTURA 2.4ft PC AL 12800/840
75080	FUTURA 2.5ft PC AL 8000/840 ML
75090	FUTURA 2.5ft PC AL 11000/840
75420	FUTURA 2.5ft PC AL 16000/840

Non-dimmable driver - plastic clips

	1F	3F	M3hAt	3F M3hAt
	x	x	109059	x
	x	x	109060	x
	75150	75350	109062	109068
	75160	75360	109063	109069
	75411	75412	x	x
	75180	75380	109065	109071
	75190	75390	109066	109072
	75421	75422	x	x

FUTURA PCc Al

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
75220	FUTURA 2.2ft PCc Al 3200/840 ML	x	x	109089	x
75230	FUTURA 2.2ft PCc Al 4400/840 ML	x	x	109090	x
75250	FUTURA 2.4ft PCc Al 6400/840 ML	75550	75650	109092	109098
75260	FUTURA 2.4ft PCc Al 8800/840 ML	75560	75660	109093	109099
75430	FUTURA 2.4ft PCc Al 12800/840	75431	75432	x	x
75280	FUTURA 2.5ft PCc Al 8000/840 ML	75580	75680	109095	109101
75290	FUTURA 2.5ft PCc Al 11000/840	75590	75690	109096	109102
75440	FUTURA 2.5ft PCc Al 16000/840	75441	75442	x	x

FUTURA PC Al DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
75023	FUTURA 2.2ft PC Al 3200/840 DALI	x	x	109074	x
75033	FUTURA 2.2ft PC Al 4400/840 DALI	x	x	109075	x
75053	FUTURA 2.4ft PC Al 6400/840 DALI	75153	75353	109077	109083
75063	FUTURA 2.4ft PC Al 8800/840 DALI	75163	75363	109078	109084
75450	FUTURA 2.4ft PC Al 12800/840 DALI	75451	75452	x	x
75083	FUTURA 2.5ft PC Al 8000/840 DALI	75183	75383	109080	109086
75093	FUTURA 2.5ft PC Al 11000/840 DALI	75193	75393	109081	109087
75460	FUTURA 2.5ft PC Al 16000/840 DALI	75461	75462	x	x

FUTURA PCc Al DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
75223	FUTURA 2.2ft PCc Al 3200/840 DALI	x	x	109104	x
75233	FUTURA 2.2ft PCc Al 4400/840 DALI	x	x	109105	x
75253	FUTURA 2.4ft PCc Al 6400/840 DALI	75553	75653	109107	109113
75263	FUTURA 2.4ft PCc Al 8800/840 DALI	75563	75663	109108	109114
75470	FUTURA 2.4ft PCc Al 12800/840 DALI	75471	75472	x	x
75283	FUTURA 2.5ft PCc Al 8000/840 DALI	75583	75683	109110	109116
75293	FUTURA 2.5ft PCc Al 11000/840 DALI	75593	75693	109111	109117
75480	FUTURA 2.5ft PCc Al 16000/840 DALI	75481	75482	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 NB



BIM
ready

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

USE

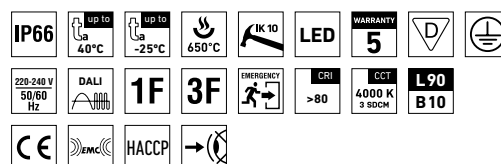
The light fitting with narrow emitting characteristics is suitable to illuminate storage rack lanes and narrow spaces with high ceilings. Its assembly height is 10-15 m.

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

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **$t_a = 40^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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

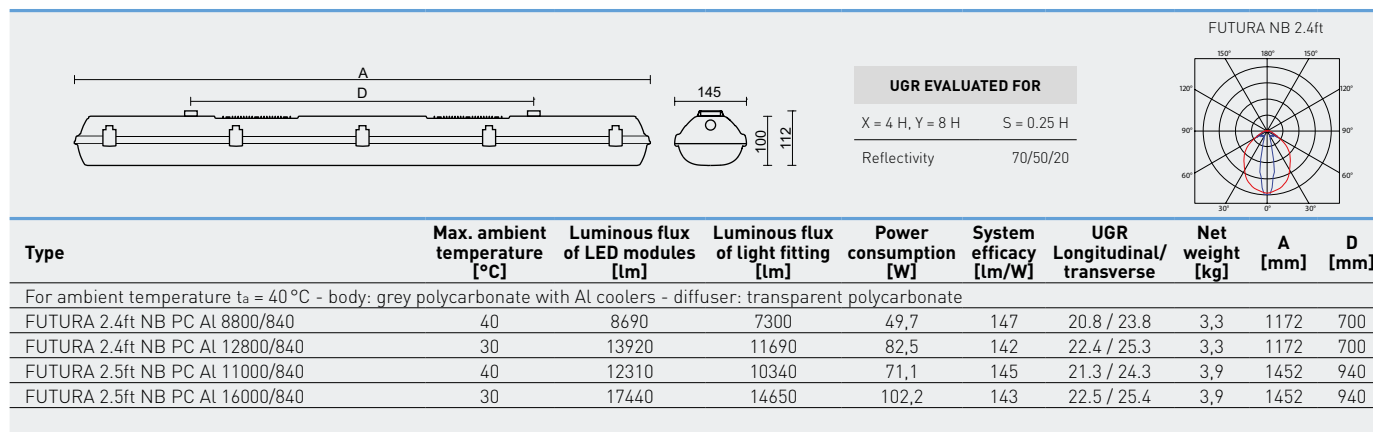


FUTURA NB PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-40^\circ\text{C}$ (version with emergency back-up M3hAt)
- 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
- Lifetime: 100,000 hours / L80B10
- 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



FUTURA NB PC Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
78060	FUTURA 2.4ft NB PC Al 8800/840	78160	78360	109434	109436
78070	FUTURA 2.4ft NB PC Al 12800/840	78170	78370	x	x
78090	FUTURA 2.5ft NB PC Al 11000/840	78190	78390	109435	109437
78080	FUTURA 2.5ft NB PC Al 16000/840	78180	78380	x	x

FUTURA NB PCc Al

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
78260	FUTURA 2.4ft NB PCc Al 8800/840	78560	78660	109442	109444
78270	FUTURA 2.4ft NB PCc Al 12800/840	78570	78670	x	x
78290	FUTURA 2.5ft NB PCc Al 11000/840	78590	78690	109443	109445
78280	FUTURA 2.5ft NB PCc Al 16000/840	78580	78680	x	x

FUTURA NB PC Al DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
78063	FUTURA 2.4ft NB PC Al 8800/840 DALI	78163	78363	109438	109440
78073	FUTURA 2.4ft NB PC Al 12800/840 DALI	78173	78373	x	x
78093	FUTURA 2.5ft NB PC Al 11000/840 DALI	78193	78393	109439	109441
78083	FUTURA 2.5ft NB PC Al 16000/840 DALI	78183	78383	x	x

FUTURA NB PCc Al DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
78263	FUTURA 2.4ft NB PCc Al 8800/840 DALI	78563	78663	109446	109448
78273	FUTURA 2.4ft NB PCc Al 12800/840 DALI	78573	78673	x	x
78293	FUTURA 2.5ft NB PCc Al 11000/840 DALI	78593	78693	109447	109449
78283	FUTURA 2.5ft NB PCc Al 16000/840 DALI	78583	78683	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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



LIGHT FITTING DETAILED VIEW

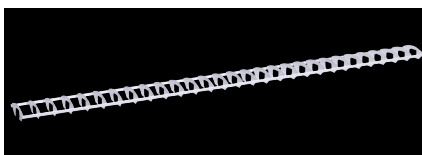
FUTURA NB



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 (see the luminance curve below).



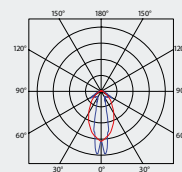
Code	Type	Description	Weight [kg]
11989	MNB 2.4	grid FUTURA 2.4ft NB	0,36
11990	MNB 2.5	grid FUTURA 2.5ft NB	0,45



FUTURA NB 2.4ft (with grid)

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H
Reflectivity 70/50/20



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 ES



171
lm/W

... 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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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, CB, HACCP

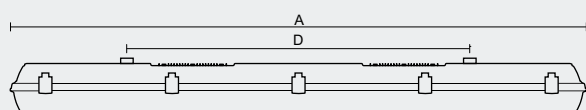


FUTURA ES PC Al, PCc Al



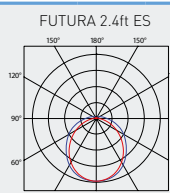
TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-40^\circ\text{C}$ (version with emergency back-up M3hAt)
- Maximum system efficacy: 171 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
- Lifetime: 100,000 hours / L80B10
- 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



UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H
Reflectivity 70/50/20



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 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 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 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 x 18W

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

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

FUTURA ES PC Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
10020	FUTURA 2.2ft ES PC Al 3200/840	x	x	109119	x
10030	FUTURA 2.2ft ES PC Al 4400/840	x	x	109120	x
10050	FUTURA 2.4ft ES PC Al 6400/840	10051	10053	109122	109128
10060	FUTURA 2.4ft ES PC Al 8800/840	10061	10063	109123	109129
10070	FUTURA 2.4ft ES PC Al 12800/840	10071	10073	x	x
10090	FUTURA 2.5ft ES PC Al 8000/840	10091	10093	109125	109131
10100	FUTURA 2.5ft ES PC Al 11000/840	10101	10103	109126	109132
10110	FUTURA 2.5ft ES PC Al 16000/840	10111	10113	x	x

FUTURA ES PCc Al

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
10130	FUTURA 2.2ft ES PCc Al 3200/840	x	x	109134	x
10140	FUTURA 2.2ft ES PCc Al 4400/840	x	x	109135	x
10160	FUTURA 2.4ft ES PCc Al 6400/840	10161	10163	109137	109143
10170	FUTURA 2.4ft ES PCc Al 8800/840	10171	10173	109138	109144
10180	FUTURA 2.4ft ES PCc Al 12800/840	10181	10183	x	x
10200	FUTURA 2.5ft ES PCc Al 8000/840	10201	10203	109140	109146
10210	FUTURA 2.5ft ES PCc Al 11000/840	10211	10213	109141	109147
10220	FUTURA 2.5ft ES PCc Al 16000/840	10221	10223	x	x

FUTURA ES PC Al DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
10240	FUTURA 2.2ft ES PC Al 3200/840 DALI	x	x	109149	x
10250	FUTURA 2.2ft ES PC Al 4400/840 DALI	x	x	109150	x
10270	FUTURA 2.4ft ES PC Al 6400/840 DALI	10271	10273	109152	109158
10280	FUTURA 2.4ft ES PC Al 8800/840 DALI	10281	10283	109153	109159
10290	FUTURA 2.4ft ES PC Al 12800/840 DALI	10291	10293	x	x
10310	FUTURA 2.5ft ES PC Al 8000/840 DALI	10311	10313	109155	109161
10320	FUTURA 2.5ft ES PC Al 11000/840 DALI	10321	10323	109156	109162
10330	FUTURA 2.5ft ES PC Al 16000/840 DALI	10331	10333	x	x

FUTURA ES PCc Al DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
10350	FUTURA 2.2ft ES PCc Al 3200/840 DALI	x	x	109164	x
10360	FUTURA 2.2ft ES PCc Al 4400/840 DALI	x	x	109165	x
10380	FUTURA 2.4ft ES PCc Al 6400/840 DALI	10381	10383	109167	109173
10390	FUTURA 2.4ft ES PCc Al 8800/840 DALI	10391	10393	109168	109174
10400	FUTURA 2.4ft ES PCc Al 12800/840 DALI	10401	10403	x	x
10420	FUTURA 2.5ft ES PCc Al 8000/840 DALI	10421	10423	109170	109176
10430	FUTURA 2.5ft ES PCc Al 11000/840 DALI	10431	10433	109171	109177
10440	FUTURA 2.5ft ES PCc Al 16000/840 DALI	10441	10443	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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



180
lm/W

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

USE

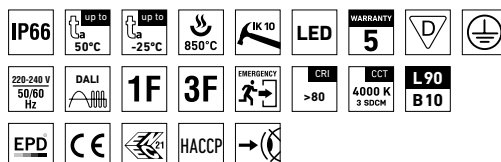
The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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
- Certification: EPD, ENEC, HACCP

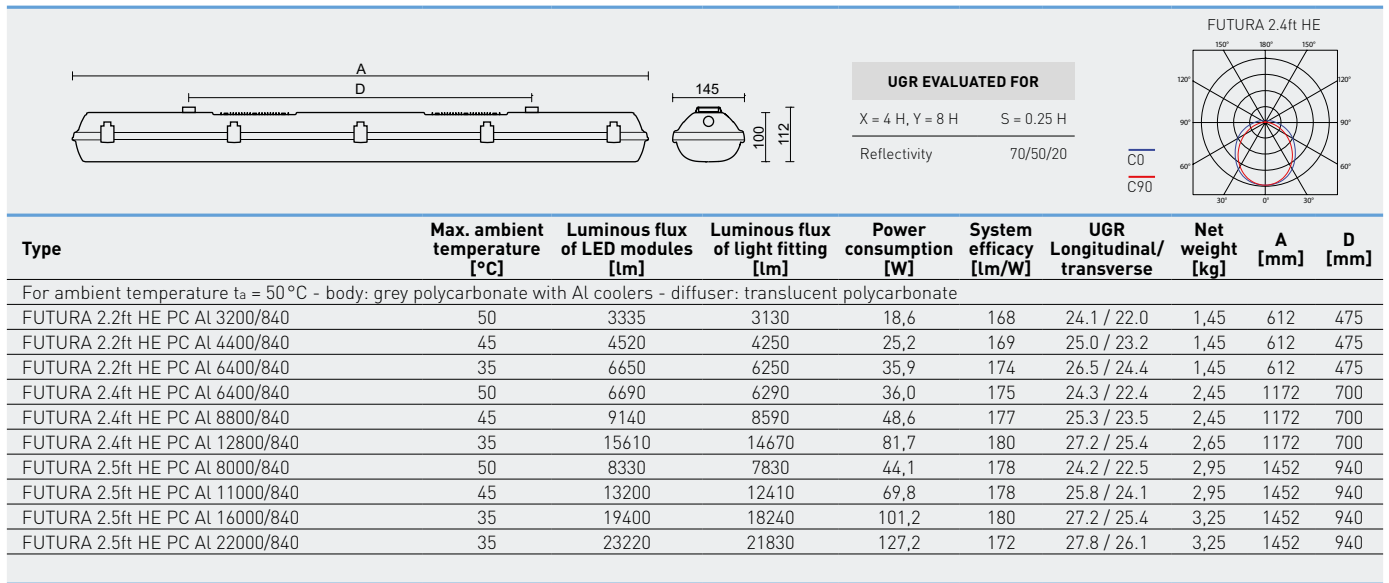


FUTURA HE PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-40^\circ\text{C}$ (version with emergency back-up M3hAt)
- 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
- Lifetime: 100,000 hours / L80B10
- 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



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	M3hAt	3F M3hAt
x	x		109178	x
x	x		109179	x
x	x		109180	x
11007	11008		109181	109185
11021	11023		109182	109186
11017	11018		x	x
11022	11028		109183	109187
11031	11033		109184	109188
11042	11043		x	x
103407	103408		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	M3hAt	3F M3hAt
x	x		109189	x
x	x		109190	x
x	x		109191	x
11062	11068		109192	109196
11051	11053		109193	109197
11077	11078		x	x
11082	11088		109194	109198
11061	11063		109195	109199
11102	11103		x	x
103413	103414		x	x

FUTURA HE PC Al DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
11106	FUTURA 2.2ft HE PC Al 3200/840 DALI	x	x	109200	x
11070	FUTURA 2.2ft HE PC Al 4400/840 DALI	x	x	109201	x
11109	FUTURA 2.2ft HE PC Al 6400/840 DALI	x	x	109202	x
11119	FUTURA 2.4ft HE PC Al 6400/840 DALI	11122	11128	109203	109207
11080	FUTURA 2.4ft HE PC Al 8800/840 DALI	11081	11083	109204	109208
11133	FUTURA 2.4ft HE PC Al 12800/840 DALI	11134	11135	x	x
11136	FUTURA 2.5ft HE PC Al 8000/840 DALI	11137	11138	109205	109209
11090	FUTURA 2.5ft HE PC Al 11000/840 DALI	11091	11093	109206	109210
11143	FUTURA 2.5ft HE PC Al 16000/840 DALI	11144	11145	x	x
103411	FUTURA 2.5ft HE PC Al 22000/840 DALI *	103409	103410	x	x

FUTURA HE PCc Al DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
11146	FUTURA 2.2ft HE PCc Al 3200/840 DALI	x	x	109211	x
11100	FUTURA 2.2ft HE PCc Al 4400/840 DALI	x	x	109212	x
11149	FUTURA 2.2ft HE PCc Al 6400/840 DALI	x	x	109213	x
11152	FUTURA 2.4ft HE PCc Al 6400/840 DALI	11153	11154	109214	109218
11110	FUTURA 2.4ft HE PCc Al 8800/840 DALI	11111	11113	109215	109219
11159	FUTURA 2.4ft HE PCc Al 12800/840 DALI	11160	11161	x	x
11162	FUTURA 2.5ft HE PCc Al 8000/840 DALI	11163	11164	109216	109220
11120	FUTURA 2.5ft HE PCc Al 11000/840 DALI	11121	11123	109217	109221
11169	FUTURA 2.5ft HE PCc Al 16000/840 DALI	11170	11171	x	x
103415	FUTURA 2.5ft HE PCc Al 22000/840 DALI *	103416	103417	x	x

*) The FUTURA 2.5ft HE 22000/840 DALI luminaire contains 2pcs DALI drivers, so it has 2 DALI control addresses.

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
3F - 3-phase 5 core through-wiring in the luminaire
M3hAt - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
3F M3hAt - 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 M3hAt - 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 MAX



... for extreme temperatures -40°C to $+70^{\circ}\text{C}$.

USE

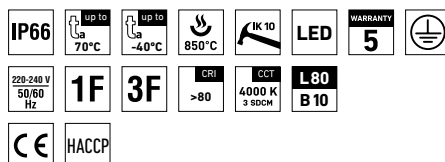
The light fitting is suitable for indoor and outdoor spaces with roof with extreme ambient temperatures from **-40°C to $+70^{\circ}\text{C}$** . The light fitting is destined mainly for heating stations, metallurgical lines, glass-works, as well as for freezers, cooling plants and other premises without 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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Minimum ambient temperature up to **$t_a = -40^{\circ}\text{C}$**
- Maximum ambient temperature up to **$t_a = 70^{\circ}\text{C}$**
- 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
- 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

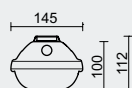
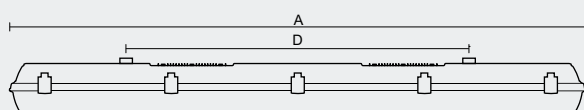


FUTURA MAX PCc Al



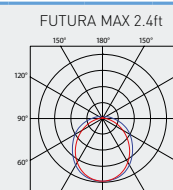
TECHNICAL DESCRIPTION

- 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 \times 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



UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H
Reflectivity 70/50/20



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	DALI	DALI 3F
79820	FUTURA 1.5ft MAX PCc Al 4000/840	79821	79823	79825	79826
79830	FUTURA 1.5ft MAX PCc Al 5500/840	79831	79833	79835	79836
79840	FUTURA 2.4ft MAX PCc Al 6400/840	79841	79843	79845	79846
79800	FUTURA 2.4ft MAX PCc Al 8800/840	79801	79803	79805	79806
79850	FUTURA 2.5ft MAX PCc Al 8000/840	79851	79853	79855	79856
79810	FUTURA 2.5ft MAX PCc Al 11000/840	79811	79813	79815	79816

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
3F - 3-phase 5 core through-wiring in the luminaire

- DALI** - version with digital dimmable driver DALI
DALI 3F - 3-phase 7 core through-wiring in the luminaire

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 VP



BIM
ready

... 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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **$t_a = 50^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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

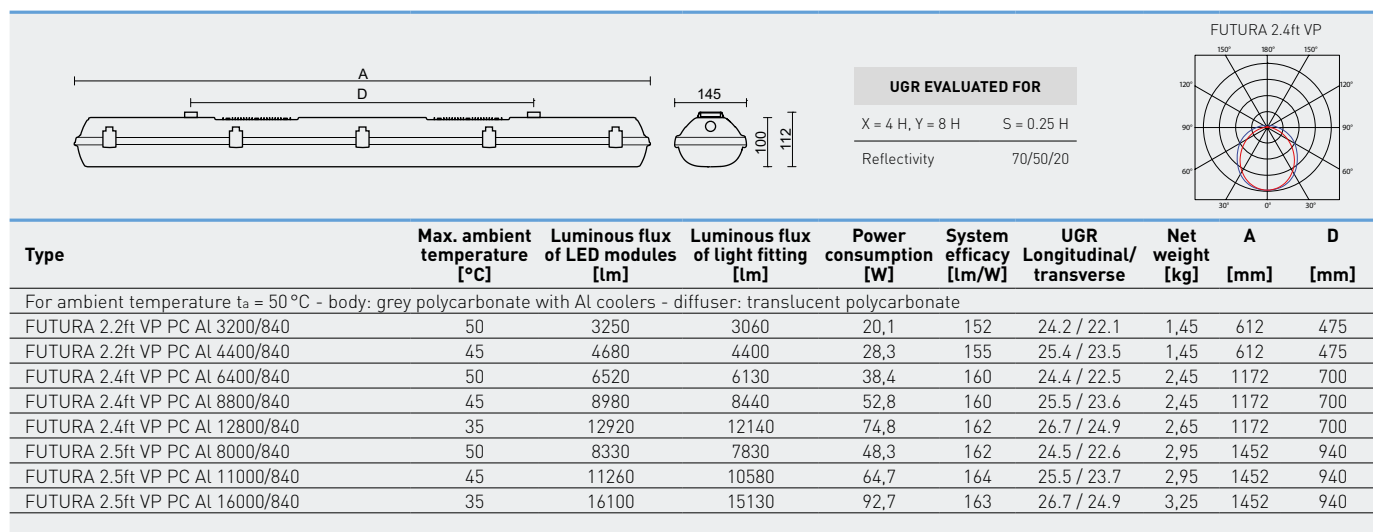


FUTURA VP PC Al, VP PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50\text{ }^\circ\text{C}$, Maximum ambient temperature: $t_a = 0\text{-}40\text{ }^\circ\text{C}$ (version with emergency back-up M3hAt)
- 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
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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 \times 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



76020 FUTURA 2.2ft VP PC Al 3200/840 = suitable replacement for T8 fl. tube light fitting PRIMA 218 - 2 \times 18 W
 76050 FUTURA 2.4ft VP PC Al 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 - 2 \times 36 W
 76080 FUTURA 2.5ft VP PC Al 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 - 2 \times 58 W

FUTURA VP PC Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
76020	FUTURA 2.2ft VP PC Al 3200/840	x	x	20470	x
76030	FUTURA 2.2ft VP PC Al 4400/840	x	x	20471	x
76050	FUTURA 2.4ft VP PC Al 6400/840	76150	76350	109387	109393
76060	FUTURA 2.4ft VP PC Al 8800/840	76160	76360	109388	109394
76410	FUTURA 2.4ft VP PC Al 12800/840	76411	76412	x	x
76080	FUTURA 2.5ft VP PC Al 8000/840	76180	76380	109390	109396
76090	FUTURA 2.5ft VP PC Al 11000/840	76190	76390	109391	109397
76420	FUTURA 2.5ft VP PC Al 16000/840	76421	76422	x	x

FUTURA VP PCc Al

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
76220	FUTURA 2.2ft VP PCc Al 3200/840	x	x	20472	x
76230	FUTURA 2.2ft VP PCc Al 4400/840	x	x	20473	x
76250	FUTURA 2.4ft VP PCc Al 6400/840	76550	76650	109411	109417
76260	FUTURA 2.4ft VP PCc Al 8800/840	76560	76660	109412	109418
76430	FUTURA 2.4ft VP PCc Al 12800/840	76431	76432	x	x
76280	FUTURA 2.5ft VP PCc Al 8000/840	76580	76680	109414	109420
76290	FUTURA 2.5ft VP PCc Al 11000/840	76590	76690	109415	109421
76440	FUTURA 2.5ft VP PCc Al 16000/840	76441	76442	x	x

FUTURA VP PC AL DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
76023	FUTURA 2.2ft VP PC AL 3200/840 DALI	x	x	20474	x
76033	FUTURA 2.2ft VP PC AL 4400/840 DALI	x	x	20475	x
76053	FUTURA 2.4ft VP PC AL 6400/840 DALI	76153	76353	109399	109405
76063	FUTURA 2.4ft VP PC AL 8800/840 DALI	76163	76363	109400	109406
76450	FUTURA 2.4ft VP PC AL 12800/840 DALI	76451	76452	x	x
76083	FUTURA 2.5ft VP PC AL 8000/840 DALI	76183	76383	109402	109408
76093	FUTURA 2.5ft VP PC AL 11000/840 DALI	76193	76393	109403	109409
76460	FUTURA 2.5ft VP PC AL 16000/840 DALI	76461	76462	x	x

FUTURA VP PCc AL DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
76223	FUTURA 2.2ft VP PCc AL 3200/840 DALI	x	x	20476	x
76233	FUTURA 2.2ft VP PCc AL 4400/840 DALI	x	x	20477	x
76253	FUTURA 2.4ft VP PCc AL 6400/840 DALI	76553	76653	109423	109429
76263	FUTURA 2.4ft VP PCc AL 8800/840 DALI	76563	76663	109424	109430
76470	FUTURA 2.4ft VP PCc AL 12800/840 DALI	76471	76472	x	x
76283	FUTURA 2.5ft VP PCc AL 8000/840 DALI	76583	76683	109426	109432
76293	FUTURA 2.5ft VP PCc AL 11000/840 DALI	76593	76693	109427	109433
76480	FUTURA 2.5ft VP PCc AL 16000/840 DALI	76481	76482	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 ABS



**BIM
ready**

... dustproof, waterproof and chemically resistant, MultiLumen.

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..

Thanks to the MultiLumen function, the luminaire can be adjusted for changing lighting requirements without much effort.

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.

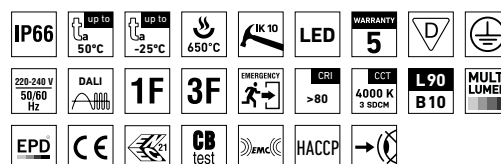
Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

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 **ta = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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

- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- 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

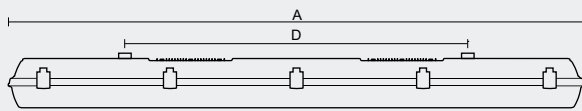


FUTURA ABS Al, ABSc Al

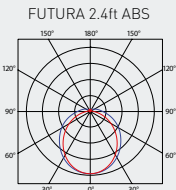


TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50\text{ }^\circ\text{C}$, Maximum ambient temperature: $t_a = 0\text{-}40\text{ }^\circ\text{C}$ (version with emergency back-up M3hAt)
- 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
- Lifetime: 100,000 hours / L80B10
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- 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



UGR EVALUATED FOR		
X = 4 H, Y = 8 H	S = 0.25 H	
Reflectivity	70/50/20	



Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Preselected Step 1 of MultiLumen function				Net weight [kg]	A [mm]	D [mm]
			Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/transverse			
For ambient temperature $t_a = 50\text{ }^\circ\text{C}$ - body: dark grey ABS with Al coolers - diffuser: translucent acrylate									
FUTURA 2.2ft ABS Al 3200/840 *	50	3250	2860	20,1	142	24.2 / 21.8	1,45	612	475
FUTURA 2.2ft ABS Al 4400/840 *	45	4680	4120	28,3	146	25.4 / 23.1	1,45	612	475
FUTURA 2.4ft ABS Al 6400/840 *	50	6520	5740	38,4	149	24.4 / 22.2	2,45	1172	700
FUTURA 2.4ft ABS Al 8800/840 *	45	8980	7900	52,8	150	25.5 / 23.3	2,45	1172	700
FUTURA 2.4ft ABS Al 12800/840	35	12920	11370	74,8	152	26.5 / 24.7	2,65	1172	700
FUTURA 2.5ft ABS Al 8000/840 *	50	8330	7330	48,3	152	24.5 / 22.4	2,95	1452	940
FUTURA 2.5ft ABS Al 11000/840	45	11260	9910	64,7	153	25.5 / 23.4	2,95	1452	940
FUTURA 2.5ft ABS Al 16000/840	35	16100	14170	92,7	153	26.5 / 24.7	3,25	1452	940

*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
FUTURA 2.2ft ABS Al 3200/840 ML	2480	17,3	143	2090	14,5	144	1700	12,3	138
FUTURA 2.2ft ABS Al 4400/840 ML	3580	24,2	148	3040	20,3	150	2450	16,4	149
FUTURA 2.4ft ABS Al 6400/840 ML	4970	32,9	151	4190	27,4	153	3400	22,0	155
FUTURA 2.4ft ABS Al 8800/840 ML	6860	44,9	153	5800	37,4	155	4700	30,1	156
FUTURA 2.5ft ABS Al 8000/840 ML	6350	41,5	153	5380	34,6	155	4350	27,9	156

FUTURA ABS Al

Code	Type
77020	FUTURA 2.2ft ABS Al 3200/840 ML
77030	FUTURA 2.2ft ABS Al 4400/840 ML
77050	FUTURA 2.4ft ABS Al 6400/840 ML
77060	FUTURA 2.4ft ABS Al 8800/840 ML
77410	FUTURA 2.4ft ABS Al 12800/840
77080	FUTURA 2.5ft ABS Al 8000/840 ML
77090	FUTURA 2.5ft ABS Al 11000/840
77420	FUTURA 2.5ft ABS Al 16000/840

Non-dimmable driver - plastic clips

	1F	3F	M3hAt	3F M3hAt
	x	x	109223	x
	x	x	109224	x
	77150	77350	109226	109232
	77160	77360	109227	109233
	77411	77412	x	x
	77180	77380	109229	109235
	77190	77390	109230	109236
	77421	77422	x	x

FUTURA ABSc Al

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
77220	FUTURA 2.2ft ABSc Al 3200/840 ML	x	x	109253	x
77230	FUTURA 2.2ft ABSc Al 4400/840 ML	x	x	109254	x
77250	FUTURA 2.4ft ABSc Al 6400/840 ML	77550	77650	109256	109262
77260	FUTURA 2.4ft ABSc Al 8800/840 ML	77560	77660	109257	109263
77430	FUTURA 2.4ft ABSc Al 12800/840	77431	77432	x	x
77280	FUTURA 2.5ft ABSc Al 8000/840 ML	77580	77680	109259	109265
77290	FUTURA 2.5ft ABSc Al 11000/840	77590	77690	109260	109266
77440	FUTURA 2.5ft ABSc Al 16000/840	77441	77442	x	x

FUTURA ABS Al DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
77023	FUTURA 2.2ft ABS Al 3200/840 DALI	x	x	109238	x
77033	FUTURA 2.2ft ABS Al 4400/840 DALI	x	x	109239	x
77053	FUTURA 2.4ft ABS Al 6400/840 DALI	77153	77353	109241	109247
77063	FUTURA 2.4ft ABS Al 8800/840 DALI	77163	77363	109242	109248
77450	FUTURA 2.4ft ABS Al 12800/840	77451	77452	x	x
77083	FUTURA 2.5ft ABS Al 8000/840 DALI	77183	77383	109244	109250
77093	FUTURA 2.5ft ABS Al 11000/840 DALI	77193	77393	109245	109251
77460	FUTURA 2.5ft ABS Al 16000/840 DALI	77461	77462	x	x

FUTURA ABSc Al DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
77223	FUTURA 2.2ft ABSc Al 3200/840 DALI	x	x	109268	x
77233	FUTURA 2.2ft ABSc Al 4400/840 DALI	x	x	109269	x
77253	FUTURA 2.4ft ABSc Al 6400/840 DALI	77553	77653	109271	109277
77263	FUTURA 2.4ft ABSc Al 8800/840 DALI	77563	77663	109272	109278
77470	FUTURA 2.4ft ABSc Al 12800/840 DALI	77471	77472	x	x
77283	FUTURA 2.5ft ABSc Al 8000/840 DALI	77583	77683	109274	109280
77293	FUTURA 2.5ft ABSc Al 11000/840 DALI	77593	77693	109275	109281
77480	FUTURA 2.5ft ABSc Al 16000/840 DALI	77481	77482	x	x

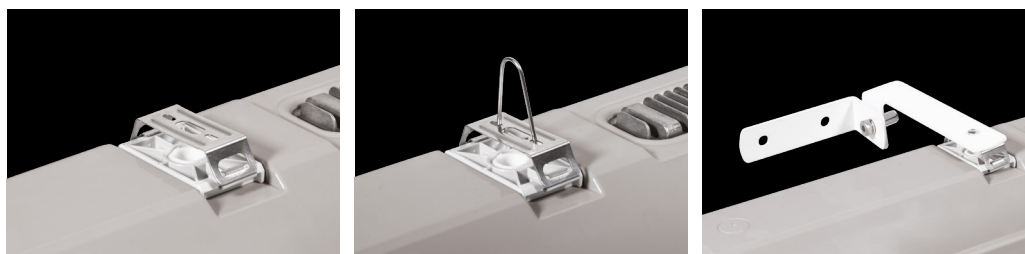
LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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



162
lm/W

... 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.

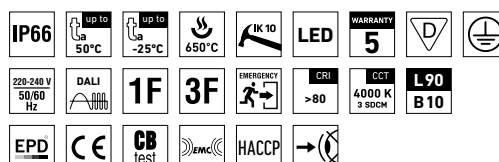
The light fitting is resistant to dust, moisture and spouting water. The body made of ABS and the diffuser made of AC have increased chemical resistance.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

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
- Lifetime: 100,000 hours / L80B10
- 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, CB, HACCP

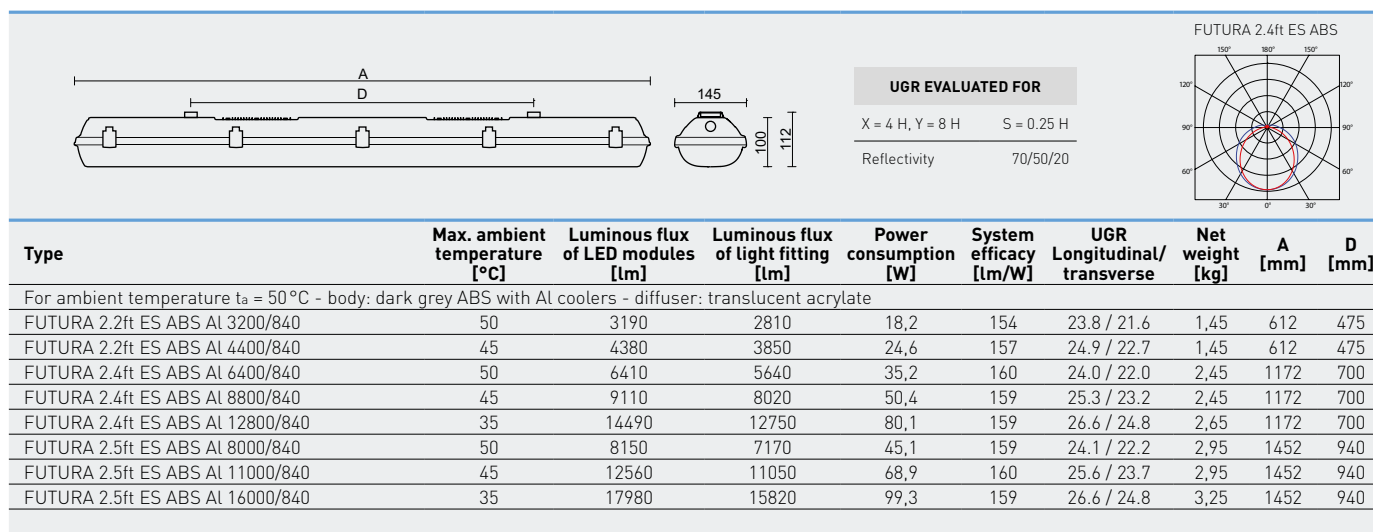


FUTURA ES ABS Al, ABSc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-40^\circ\text{C}$ (version with emergency back-up M3hAt)
- 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
- Lifetime: 100,000 hours / L80B10
- 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 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 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 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	M3hAt	3F M3hAt
10520	FUTURA 2.2ft ES ABS Al 3200/840	x	x	109283	x
10530	FUTURA 2.2ft ES ABS Al 4400/840	x	x	109284	x
10550	FUTURA 2.4ft ES ABS Al 6400/840	10551	10553	109286	109292
10560	FUTURA 2.4ft ES ABS Al 8800/840	10561	10563	109287	109293
10570	FUTURA 2.4ft ES ABS Al 12800/840	10571	10573	x	x
10590	FUTURA 2.5ft ES ABS Al 8000/840	10591	10593	109289	109295
10600	FUTURA 2.5ft ES ABS Al 11000/840	10601	10603	109290	109296
10610	FUTURA 2.5ft ES ABS Al 16000/840	10611	10613	x	x

FUTURA ES ABSc Al

Non-dimmable driver - stainless clips [c]

Code	Type	1F	3F	M3hAt	3F M3hAt
10630	FUTURA 2.2ft ES ABSc Al 3200/840	x	x	109298	x
10640	FUTURA 2.2ft ES ABSc Al 4400/840	x	x	109299	x
10660	FUTURA 2.4ft ES ABSc Al 6400/840	10661	10663	109301	109307
10670	FUTURA 2.4ft ES ABSc Al 8800/840	10671	10673	109302	109308
10680	FUTURA 2.4ft ES ABSc Al 12800/840	10681	10683	x	x
10700	FUTURA 2.5ft ES ABSc Al 8000/840	10701	10703	109304	109310
10710	FUTURA 2.5ft ES ABSc Al 11000/840	10711	10713	109305	109311
10720	FUTURA 2.5ft ES ABSc Al 16000/840	10721	10723	x	x

FUTURA ES ABS Al DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
10740	FUTURA 2.2ft ES ABS Al 3200/840 DALI	x	x	109313	x
10750	FUTURA 2.2ft ES ABS Al 4400/840 DALI	x	x	109314	x
10770	FUTURA 2.4ft ES ABS Al 6400/840 DALI	10771	10773	109316	109322
10780	FUTURA 2.4ft ES ABS Al 8800/840 DALI	10781	10783	109317	109323
10790	FUTURA 2.4ft ES ABS Al 12800/840 DALI	10791	10793	x	x
10810	FUTURA 2.5ft ES ABS Al 8000/840 DALI	10811	10813	109319	109325
10820	FUTURA 2.5ft ES ABS Al 11000/840 DALI	10821	10823	109320	109326
10830	FUTURA 2.5ft ES ABS Al 16000/840 DALI	10831	10833	x	x

FUTURA ES ABSc Al DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
10850	FUTURA 2.2ft ES ABSc Al 3200/840 DALI	x	x	109328	x
10860	FUTURA 2.2ft ES ABSc Al 4400/840 DALI	x	x	109329	x
10880	FUTURA 2.4ft ES ABSc Al 6400/840 DALI	10881	10883	109331	109337
10890	FUTURA 2.4ft ES ABSc Al 8800/840 DALI	10891	10893	109332	109338
10900	FUTURA 2.4ft ES ABSc Al 12800/840 DALI	10901	10903	x	x
10920	FUTURA 2.5ft ES ABSc Al 8000/840 DALI	10921	10923	109334	109340
10930	FUTURA 2.5ft ES ABSc Al 11000/840 DALI	10931	10933	109335	109341
10940	FUTURA 2.5ft ES ABSc Al 16000/840 DALI	10941	10943	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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



169
lm/W

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

USE

The light fitting is suitable for the environment where ammoniac fumes, lixivians, 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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

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
- Lifetime: 100,000 hours / L80B10
- 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
- Certification: EPD, ENEC, HACCP

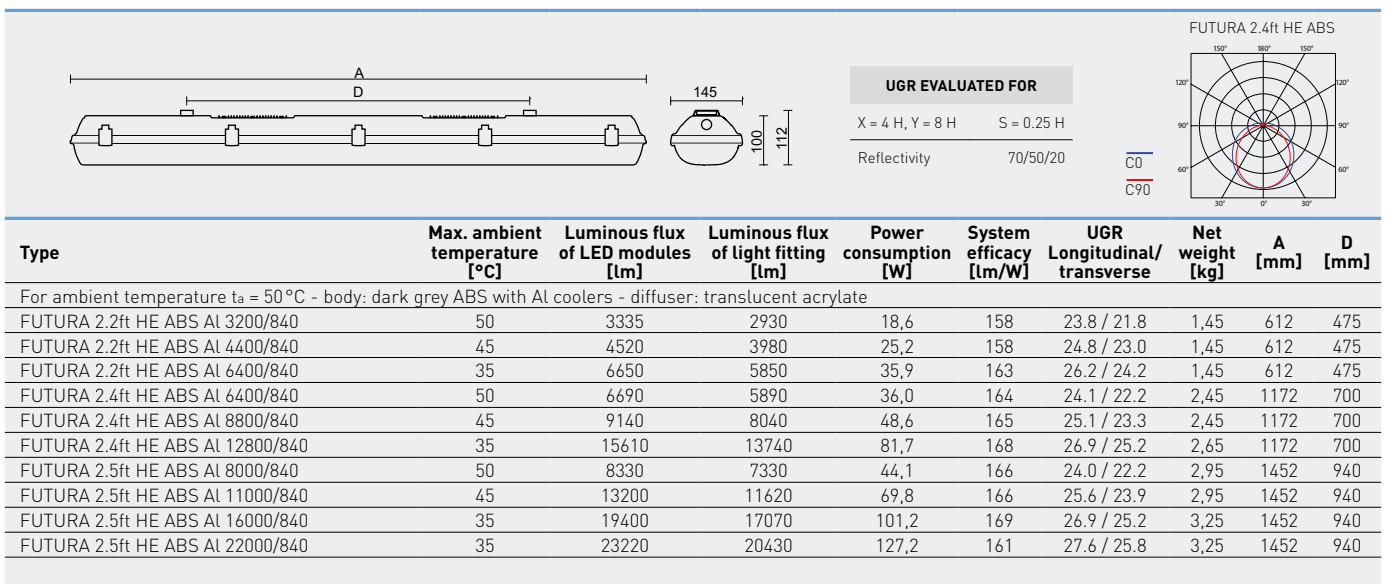


FUTURA HE ABS Al, ABSc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-40^\circ\text{C}$ (version with emergency back-up M3hAt)
- 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
- Lifetime: 100,000 hours / L80B10
- 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 sulphur-resistant modules, current driver or current driver DALI



FUTURA HE ABS Al

Code	Type
11200	FUTURA 2.2ft HE ABS Al 3200/840
11210	FUTURA 2.2ft HE ABS Al 4400/840
11203	FUTURA 2.2ft HE ABS Al 6400/840
11206	FUTURA 2.4ft HE ABS Al 6400/840
11220	FUTURA 2.4ft HE ABS Al 8800/840
11216	FUTURA 2.4ft HE ABS Al 12800/840
11219	FUTURA 2.5ft HE ABS Al 8000/840
11230	FUTURA 2.5ft HE ABS Al 11000/840
11241	FUTURA 2.5ft HE ABS Al 16000/840
103423	FUTURA 2.5ft HE ABS Al 22000/840

Non-dimmable driver - plastic clips

	1F	3F	M3hAt	3F M3hAt
	x	x	109342	x
	x	x	109343	x
	x	x	109344	x
	11207	11208	109345	109349
	11221	11223	109346	109350
	11217	11218	x	x
	11222	11228	109347	109351
	11231	11233	109348	109352
	11242	11243	x	x
	103426	103427	x	x

FUTURA HE ABSc Al

Code	Type
11246	FUTURA 2.2ft HE ABSc Al 3200/840
11240	FUTURA 2.2ft HE ABSc Al 4400/840
11249	FUTURA 2.2ft HE ABSc Al 6400/840
11259	FUTURA 2.4ft HE ABSc Al 6400/840
11250	FUTURA 2.4ft HE ABSc Al 8800/840
11276	FUTURA 2.4ft HE ABSc Al 12800/840
11279	FUTURA 2.5ft HE ABSc Al 8000/840
11260	FUTURA 2.5ft HE ABSc Al 11000/840
11301	FUTURA 2.5ft HE ABSc Al 16000/840
103430	FUTURA 2.5ft HE ABSc Al 22000/840

Non-dimmable driver - stainless clips (c)

	1F	3F	M3hAt	3F M3hAt
	x	x	109353	x
	x	x	109354	x
	x	x	109355	x
	11262	11268	109356	109360
	11251	11253	109357	109361
	11277	11278	x	x
	11282	11288	109358	109362
	11261	11263	109359	109363
	11302	11303	x	x
	103431	103425	x	x

FUTURA HE ABS AL DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
11306	FUTURA 2.2ft HE ABS AL 3200/840 DALI	x	x	109364	x
11270	FUTURA 2.2ft HE ABS AL 4400/840 DALI	x	x	109365	x
11309	FUTURA 2.2ft HE ABS AL 6400/840 DALI	x	x	109366	x
11319	FUTURA 2.4ft HE ABS AL 6400/840 DALI	11322	11328	109367	109371
11280	FUTURA 2.4ft HE ABS AL 8800/840 DALI	11281	11283	109368	109372
11333	FUTURA 2.4ft HE ABS AL 12800/840 DALI	11334	11335	x	x
11336	FUTURA 2.5ft HE ABS AL 8000/840 DALI	11337	11338	109369	109373
11290	FUTURA 2.5ft HE ABS AL 11000/840 DALI	11291	11293	109370	109374
11343	FUTURA 2.5ft HE ABS AL 16000/840 DALI	11344	11345	x	x
103424	FUTURA 2.5ft HE ABS AL 22000/840 DALI *	103428	103429	x	x

FUTURA HE ABSc AL DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
11346	FUTURA 2.2ft HE ABSc AL 3200/840 DALI	x	x	109375	x
11300	FUTURA 2.2ft HE ABSc AL 4400/840 DALI	x	x	109376	x
11349	FUTURA 2.2ft HE ABSc AL 6400/840 DALI	x	x	109377	x
11352	FUTURA 2.4ft HE ABSc AL 6400/840 DALI	11353	11354	109378	109382
11310	FUTURA 2.4ft HE ABSc AL 8800/840 DALI	11311	11313	109379	109383
11359	FUTURA 2.4ft HE ABSc AL 12800/840 DALI	11360	11361	x	x
11362	FUTURA 2.5ft HE ABSc AL 8000/840 DALI	11363	11364	109380	109384
11320	FUTURA 2.5ft HE ABSc AL 11000/840 DALI	11321	11323	109381	109385
11369	FUTURA 2.5ft HE ABSc AL 16000/840 DALI	11370	11371	x	x
103432	FUTURA 2.5ft HE ABSc AL 22000/840 DALI *	103433	103434	x	x

*) The FUTURA 2.5ft HE 22000/840 DALI luminaire contains 2pcs DALI drivers, so it has 2 DALI control addresses.

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 spouting 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.**

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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)

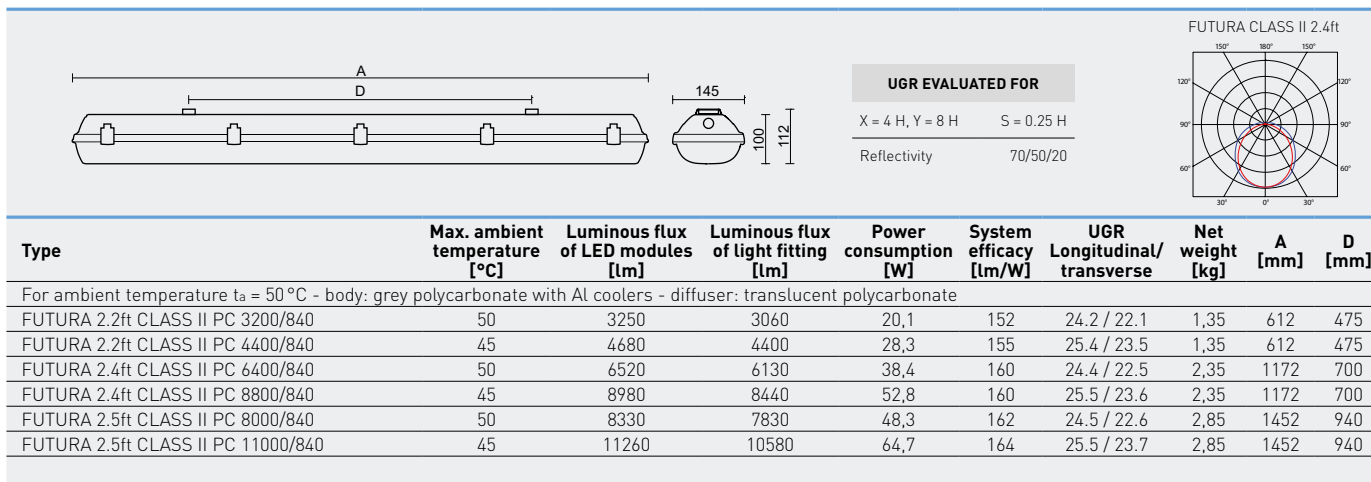


FUTURA CLASS II PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50\text{ }^\circ\text{C}$, Maximum ambient temperature: $t_a = 0\text{-}40\text{ }^\circ\text{C}$ (version with emergency back-up M3hAt)
- Maximum system efficacy: 164 lm/W
- Emergency light module generates a luminous flux of 445 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
- Lifetime: 100,000 hours / L80B10
- 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
- **External terminal block** 2 or 4-pole, conductor cross-sectional area: 1.5 or 2.5 mm², or 6-pole Wieland connector (DALI 3F)
- Installation: package contains stainless hooks and stainless brackets
- Electric equipment: LED modules, current driver or current driver DALI



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

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
47560	FUTURA 2.2ft CLASS II PC 3200/840	x	x	109499	x
47570	FUTURA 2.2ft CLASS II PC 4400/840	x	x	109500	x
47590	FUTURA 2.4ft CLASS II PC 6400/840	47591	47593	109502	109508
47600	FUTURA 2.4ft CLASS II PC 8800/840	47601	47603	109503	109509
47630	FUTURA 2.5ft CLASS II PC 8000/840	47631	47633	109505	109511
47640	FUTURA 2.5ft CLASS II PC 11000/840	47641	47643	109506	109512

FUTURA CLASS II PCc

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
47670	FUTURA 2.2ft CLASS II PCc 3200/840	x	x	109514	x
47680	FUTURA 2.2ft CLASS II PCc 4400/840	x	x	109515	x
47700	FUTURA 2.4ft CLASS II PCc 6400/840	47701	47703	109517	109523
47710	FUTURA 2.4ft CLASS II PCc 8800/840	47711	47713	109518	109524
47740	FUTURA 2.5ft CLASS II PCc 8000/840	47741	47743	109520	109526
47750	FUTURA 2.5ft CLASS II PCc 11000/840	47751	47753	109521	109527

FUTURA CLASS II PC DALI

Digital dimmable driver DALI - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
47780	FUTURA 2.2ft CLASS II PC 3200/840 DALI	x	x	109529	x
47790	FUTURA 2.2ft CLASS II PC 4400/840 DALI	x	x	109530	x
47810	FUTURA 2.4ft CLASS II PC 6400/840 DALI	47811	47813	109532	109538
47820	FUTURA 2.4ft CLASS II PC 8800/840 DALI	47821	47823	109533	109539
47850	FUTURA 2.5ft CLASS II PC 8000/840 DALI	47851	47853	109535	109541
47860	FUTURA 2.5ft CLASS II PC 11000/840 DALI	47861	47863	109536	109542

FUTURA CLASS II PCc DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
47890	FUTURA 2.2ft CLASS II PCc 3200/840 DALI	x	x	109544	x
47900	FUTURA 2.2ft CLASS II PCc 4400/840 DALI	x	x	109545	x
47920	FUTURA 2.4ft CLASS II PCc 6400/840 DALI	47921	47923	109547	109553
47930	FUTURA 2.4ft CLASS II PCc 8800/840 DALI	47931	47933	109548	109554
47960	FUTURA 2.5ft CLASS II PCc 8000/840 DALI	47961	47963	109550	109556
47970	FUTURA 2.5ft CLASS II PCc 11000/840 DALI	47971	47973	109551	109557

LEGEND

- 1F** - 1-phase 2 core through-wiring in the luminaire
- 3F** - 3-phase 4 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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



FUTURA SNS



BIM
ready

... 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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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

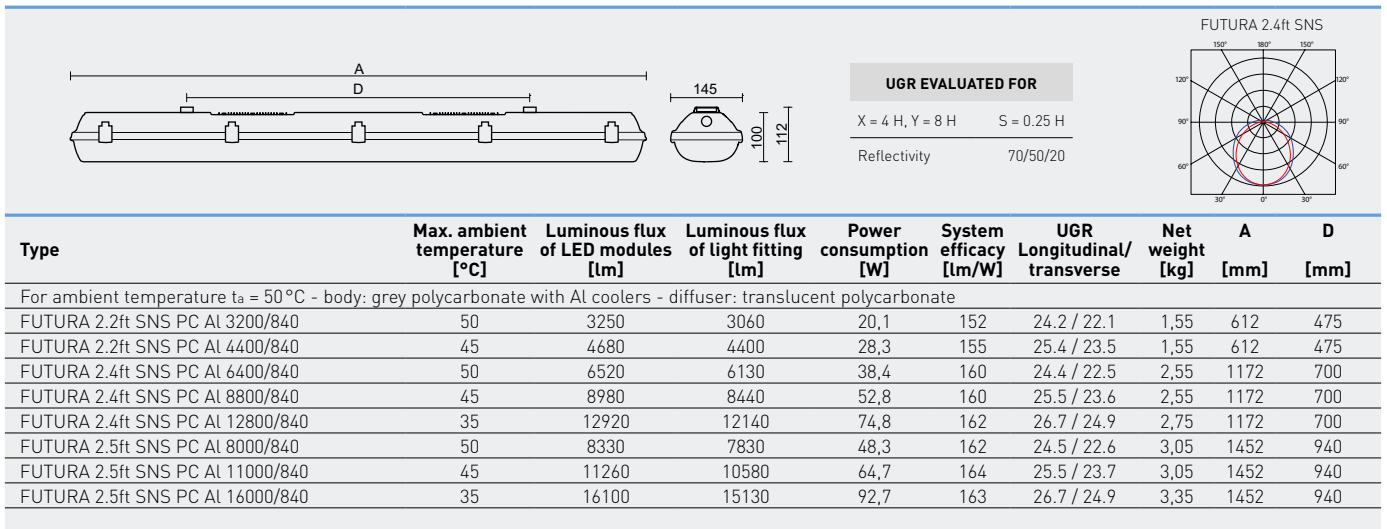


FUTURA SNS PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0\text{-}40^\circ\text{C}$ (version with emergency back-up M3hAt)
- 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
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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 digital dimmable driver DALI
- Motion sensor: detection angle $30^\circ\text{-}150^\circ$, switch on height 1 – 6 m, time range 5 sec – 15 min, switch-on sensitivity 2 – 50 lux



79050 FUTURA 2.4ft SNS PC Al 6400/840 = suitable replacement for T8 fl. tube light fitting PRIMA 236 – 2 × 36W
 79080 FUTURA 2.5ft SNS PC Al 8000/840 = suitable replacement for T8 fl. tube light fitting PRIMA 258 – 2 × 58W

FUTURA SNS PC Al

Non-dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
79020	FUTURA 2.2ft SNS PC Al 3200/840	x	x	20478	x
79030	FUTURA 2.2ft SNS PC Al 4400/840	x	x	20479	x
79050	FUTURA 2.4ft SNS PC Al 6400/840	79150	79350	109451	109457
79060	FUTURA 2.4ft SNS PC Al 8800/840	79160	79360	109452	109458
79410	FUTURA 2.4ft SNS PC Al 12800/840	79411	79412	x	x
79080	FUTURA 2.5ft SNS PC Al 8000/840	79180	79380	109454	109460
79090	FUTURA 2.5ft SNS PC Al 11000/840	79190	79390	109455	109461
79420	FUTURA 2.5ft SNS PC Al 16000/840	79421	79422	x	x

FUTURA SNS PCc Al

Non-dimmable driver - stainless clips [c]

Code	Type	1F	3F	M3hAt	3F M3hAt
79220	FUTURA 2.2ft SNS PCc Al 3200/840	x	x	20480	x
79230	FUTURA 2.2ft SNS PCc Al 4400/840	x	x	20481	x
79250	FUTURA 2.4ft SNS PCc Al 6400/840	79550	79650	109475	109481
79260	FUTURA 2.4ft SNS PCc Al 8800/840	79560	79660	109476	109482
79430	FUTURA 2.4ft SNS PCc Al 12800/840	79431	79432	x	x
79280	FUTURA 2.5ft SNS PCc Al 8000/840	79580	79680	109478	109484
79290	FUTURA 2.5ft SNS PCc Al 11000/840	79590	79690	109479	109485
79440	FUTURA 2.5ft SNS PCc Al 16000/840	79441	79442	x	x

FUTURA SNS PC Al CORRIDOR

Digital dimmable driver - plastic clips

Code	Type	1F	3F	M3hAt	3F M3hAt
20482	FUTURA 2.2ft SNS PC Al 3200/840 COR	x	x	20484	x
20483	FUTURA 2.2ft SNS PC Al 4400/840 COR	x	x	20485	x
79053	FUTURA 2.4ft SNS PC Al 6400/840 COR	79153	79353	109463	109469
79063	FUTURA 2.4ft SNS PC Al 8800/840 COR	79163	79363	109464	109470
20486	FUTURA 2.4ft SNS PC Al 12800/840 COR	20487	20488	x	x
79083	FUTURA 2.5ft SNS PC Al 8000/840 COR	79183	79383	109466	109472
79093	FUTURA 2.5ft SNS PC Al 11000/840 COR	79193	79393	109467	109473
20489	FUTURA 2.5ft SNS PC Al 16000/840 COR	20490	20491	x	x

FUTURA SNS PCc Al CORRIDOR

Digital dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
20492	FUTURA 2.2ft SNS PCc Al 3200/840 COR	x	x	20494	x
20493	FUTURA 2.2ft SNS PCc Al 4400/840 COR	x	x	20495	x
79253	FUTURA 2.4ft SNS PCc Al 6400/840 COR	79553	79653	109487	109493
79263	FUTURA 2.4ft SNS PCc Al 8800/840 COR	79563	79663	109488	109494
20496	FUTURA 2.4ft SNS PCc Al 12800/840 COR	20497	20498	x	x
79283	FUTURA 2.5ft SNS PCc Al 8000/840 COR	79583	79683	109490	109496
79293	FUTURA 2.5ft SNS PCc Al 11000/840 COR	79593	79693	109491	109497
20499	FUTURA 2.5ft SNS PCc Al 16000/840 COR	20500	20501	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire for connection of max. 5 slave luminaires
- 3F** - 3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor connected to L3)
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 3-phase 5 core through-wiring in the luminaire for connection of max. 5 slave luminaires (sensor and emergency unit connected to L3)
- COR** - version with digital dimmable driver DALI and set CORRIDOR function
- COR 1F** - 1-phase 5 core through-wiring in the luminaire for connection of max. 20 luminaires
- COR 3F** - 3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L1)
- COR 3F M3hAt** - 3-phase 7 core through-wiring in the luminaire for connection of max. 20 luminaires (sensor connected to L1 and emergency unit 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



FUTURA PIR

NEW



... with movement detector, 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 luminaire is suitable for workplaces with a mounting height of 3.5 to 12 m.

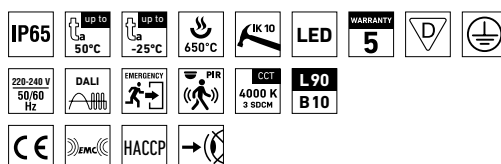
The light fitting is resistant to dust, moisture and spouting water. The body and the diffuser made of polycarbonate (PC) have the increased resistance against deformation and impact.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP65**
- Maximum ambient temperature up to **$t_a = 50^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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 -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

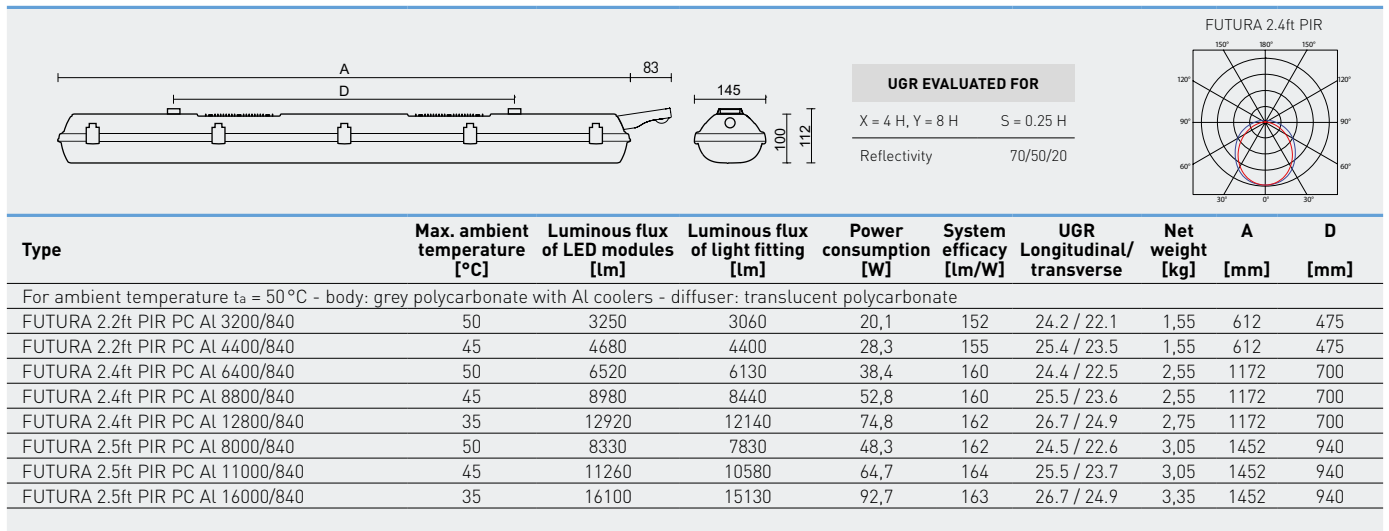


FUTURA PIR PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP65
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-40^\circ\text{C}$ (version with emergency back-up M3hAt)
- 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
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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
- **Motion sensor:** 360° range, switch on height 1 – 12 m, time range 2 sec – 30 min, switch-on sensitivity 2 – 500 lux
- Cable gland: 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



FUTURA PIR PC Al non-dimmable, plastic clips

Code	Type	M3hAt
107242	FUTURA 2.2ft PIR PC Al 3200/840	107247
107243	FUTURA 2.2ft PIR PC Al 4400/840	107248
107244	FUTURA 2.4ft PIR PC Al 6400/840	107249
107245	FUTURA 2.4ft PIR PC Al 8800/840	107250
107922	FUTURA 2.4ft PIR PC Al 12800/840	x
107246	FUTURA 2.5ft PIR PC Al 8000/840	107251
107923	FUTURA 2.5ft PIR PC Al 11000/840	107918
107924	FUTURA 2.5ft PIR PC Al 16000/840	x

Basic PIR settings: light time 5 min, ambient light control set to 2 lux
To change the settings, the HRC-11 remote control (12285) is required

FUTURA PIR PCc Al non-dimmable, stainless clips

Code	Type	M3hAt
107262	FUTURA 2.2ft PIR PCc Al 3200/840	107267
107263	FUTURA 2.2ft PIR PCc Al 4400/840	107268
107264	FUTURA 2.4ft PIR PCc Al 6400/840	107269
107265	FUTURA 2.4ft PIR PCc Al 8800/840	107270
107928	FUTURA 2.4ft PIR PCc Al 12800/840	x
107266	FUTURA 2.5ft PIR PCc Al 8000/840	107271
107929	FUTURA 2.5ft PIR PCc Al 11000/840	107920
107930	FUTURA 2.5ft PIR PCc Al 16000/840	x

Basic PIR settings: light time 5 min, ambient light control set to 2 lux
To change the settings, the HRC-11 remote control (12285) is required

FUTURA PIR PC Al COR digital dimmable DALI, plastic clips

Code	Type	M3hAt
107252	FUTURA 2.2ft PIR PC Al 3200/840 COR	107257
107253	FUTURA 2.2ft PIR PC Al 4400/840 COR	107258
107254	FUTURA 2.4ft PIR PC Al 6400/840 COR	107259
107255	FUTURA 2.4ft PIR PC Al 8800/840 COR	107260
107925	FUTURA 2.4ft PIR PC Al 12800/840 COR	x
107256	FUTURA 2.5ft PIR PC Al 8000/840 COR	107261
107926	FUTURA 2.5ft PIR PC Al 11000/840 COR	107919
107927	FUTURA 2.5ft PIR PC Al 16000/840 COR	x

Basic PIR COR settings:
5 min at 100% light level; 10 min at 20% light level, then 0%
To change the settings, the HRC-11 remote control (12285) is required

FUTURA PIR PCc Al COR digital dimmable DALI, stainless clips

Code	Type	M3hAt
107272	FUTURA 2.2ft PIR PCc Al 3200/840 COR	107277
107273	FUTURA 2.2ft PIR PCc Al 4400/840 COR	107278
107274	FUTURA 2.4ft PIR PCc Al 6400/840 COR	107279
107275	FUTURA 2.4ft PIR PCc Al 8800/840 COR	107280
107931	FUTURA 2.4ft PIR PCc Al 12800/840 COR	x
107276	FUTURA 2.5ft PIR PCc Al 8000/840 COR	107281
107932	FUTURA 2.5ft PIR PCc Al 11000/840 COR	107921
107933	FUTURA 2.5ft PIR PCc Al 16000/840 COR	x

Basic PIR COR settings:
5 min at 100% light level; 10 min at 20% light level, then 0%
To change the settings, the HRC-11 remote control (12285) is required

LEGEND

- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- COR** - version with digital dimmable driver DALI and set CORRIDOR function in **PIR sensor, setting with the HRC11 remote control**

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 PIR



FUTURA E-CON

NEW



... with external terminal block IP66.

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.

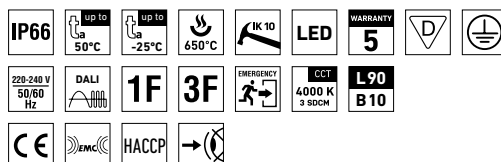
An external terminal block makes it easy and quick to connect the supply cable with no need to open the fitting.

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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- 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 -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
- Optional delivery in emergency version
- Eliminated risk of mechanical and electrostatic damage to LED chips
- Through-wiring of up to 5 wires at body

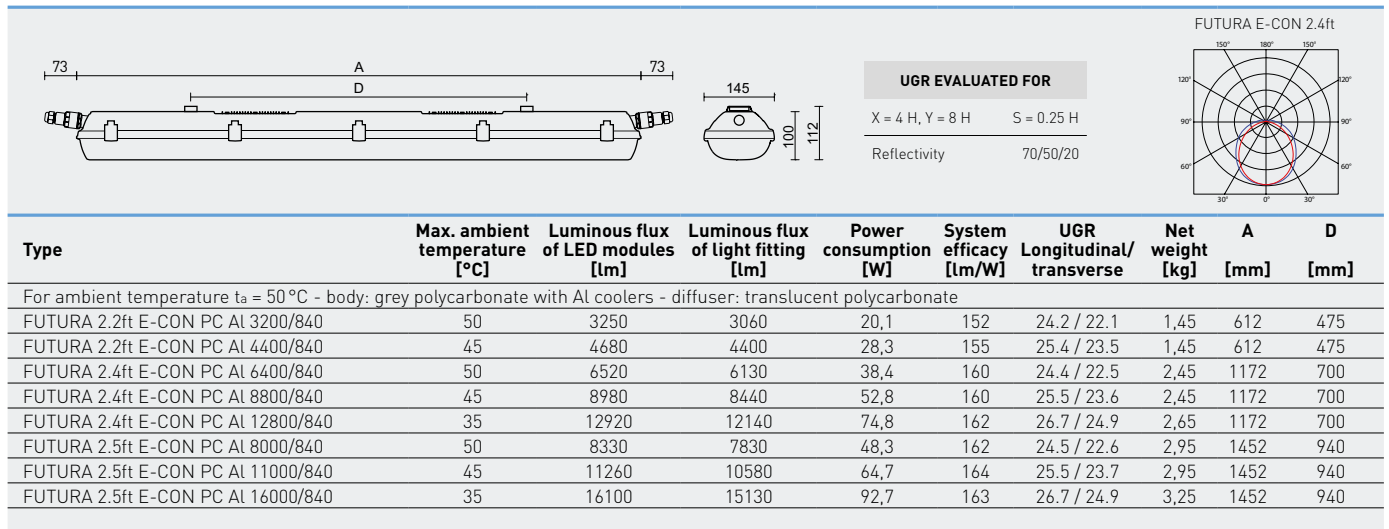


FUTURA E-CON PC Al, PCc Al



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-40^\circ\text{C}$ (version with emergency back-up M3hAt)
- 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
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100 000 hours / L80B10
- 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
- Distance part: polyamide + 10 % glass fibre
- **External terminal block** 3 or 5-pole, conductor cross-sectional area: 1.5 or 2.5 mm²
- Installation: package contains stainless hooks and stainless brackets



FUTURA E-CON PC Al

Non-dimmable driver, plastic clips

Type	1x3P	1x5P	M3hAt 1x5P	2x3P	2x5P	M3hAt 2x5P
FUTURA 2.2ft E-CON PC Al 3200/840	107776	107784	107792	x	x	x
FUTURA 2.2ft E-CON PC Al 4400/840	107777	107785	107793	x	x	x
FUTURA 2.4ft E-CON PC Al 6400/840	107778	107786	107794	107798	107804	107810
FUTURA 2.4ft E-CON PC Al 8800/840	107779	107787	107795	107799	107805	107811
FUTURA 2.4ft E-CON PC Al 12800/840	107780	107788	x	107800	107806	x
FUTURA 2.5ft E-CON PC Al 8000/840	107781	107789	107796	107801	107807	107812
FUTURA 2.5ft E-CON PC Al 11000/840	107782	107790	107797	107802	107808	107813
FUTURA 2.5ft E-CON PC Al 16000/840	107783	107791	x	107803	107809	x

FUTURA E-CON PCc Al

Non-dimmable driver, stainless clips (c)

Type	1x3P	1x5P	M3hAt 1x5P	2x3P	2x5P	M3hAt 2x5P
FUTURA 2.2ft E-CON PCc Al 3200/840	107838	107846	107854	x	x	x
FUTURA 2.2ft E-CON PCc Al 4400/840	107839	107847	107855	x	x	x
FUTURA 2.4ft E-CON PCc Al 6400/840	107840	107848	107856	107860	107866	107872
FUTURA 2.4ft E-CON PCc Al 8800/840	107841	107849	107857	107861	107867	107873
FUTURA 2.4ft E-CON PCc Al 12800/840	107842	107850	x	107862	107868	x
FUTURA 2.5ft E-CON PCc Al 8000/840	107843	107851	107858	107863	107869	107874
FUTURA 2.5ft E-CON PCc Al 11000/840	107844	107852	107859	107864	107870	107875
FUTURA 2.5ft E-CON PCc Al 16000/840	107845	107853	x	107865	107871	x

FUTURA E-CON PC Al DALI

Digital dimmable driver DALI, plastic clips

Type	DALI 1x5P	DALI M3hAt 1x5P	DALI 2x5P	DALI M3hAt 2x5P
FUTURA 2.2ft E-CON PC Al 3200/840	107814	107822	x	x
FUTURA 2.2ft E-CON PC Al 4400/840	107815	107823	x	x
FUTURA 2.4ft E-CON PC Al 6400/840	107816	107824	107828	107834
FUTURA 2.4ft E-CON PC Al 8800/840	107817	107825	107829	107835
FUTURA 2.4ft E-CON PC Al 12800/840	107818	x	107830	x
FUTURA 2.5ft E-CON PC Al 8000/840	107819	107826	107831	107836
FUTURA 2.5ft E-CON PC Al 11000/840	107820	107827	107832	107837
FUTURA 2.5ft E-CON PC Al 16000/840	107821	x	107833	x

FUTURA E-CON PCc Al DALI

Digital dimmable driver DALI, stainless clips (c)

Type	DALI 1x5P	DALI M3hAt 1x5P	DALI 2x5P	DALI M3hAt 2x5P
FUTURA 2.2ft E-CON PCc Al 3200/840	107876	107884	x	x
FUTURA 2.2ft E-CON PCc Al 4400/840	107877	107885	x	x
FUTURA 2.4ft E-CON PCc Al 6400/840	107878	107886	107890	107896
FUTURA 2.4ft E-CON PCc Al 8800/840	107879	107887	107891	107897
FUTURA 2.4ft E-CON PCc Al 12800/840	107880	x	107892	x
FUTURA 2.5ft E-CON PCc Al 8000/840	107881	107888	107893	107898
FUTURA 2.5ft E-CON PCc Al 11000/840	107882	107889	107894	107899
FUTURA 2.5ft E-CON PCc Al 16000/840	107883	x	107895	x

LEGEND

- 1x3P** - a version featuring a non-dimmable ballast and a single 3-pole external terminal block
- 1x5P** - a version featuring a non-dimmable ballast and a single 5-pole external terminal block
- M3hAt 1x5P** - emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting and a single 5-pole external terminal block
- 2x3P** - a version featuring a non-dimmable ballast, two 3-pole external terminal blocks and 3-wire connecting cables (1F), for continuous row installation
- 2x5P** - a version featuring a non-dimmable ballast, two 5-pole external terminal blocks and 5-wire connecting cables (3F), for continuous row installation
- M3hAt 2x5P** - emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting, two 5-pole external terminal blocks and 5-wire connecting cables (3F), for continuous row installation
- DALI 1x5P** - a version featuring a digitally dimmable ballast and a single 5-pole external terminal block
- DALI M3hAt 1x5P** - a version featuring a digitally dimmable ballast, emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting and a single 5-pole external terminal block
- DALI 2x5P** - a version featuring a digitally dimmable ballast, two 5-pole external terminal blocks and 5-wire connecting cables (DALI 1F), for continuous row installation
- DALI M3hAt 2x5P** - a version featuring a digitally dimmable ballast, emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting, two 5-pole external terminal blocks 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



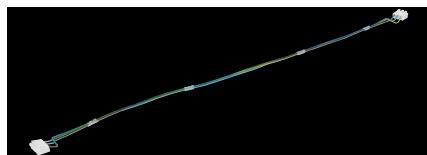
LIGHT FITTING DETAILED VIEW

FUTURA E-CON

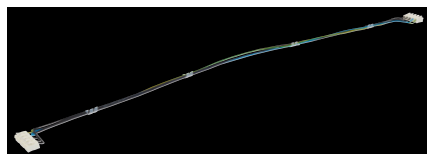


Through-wiring cables

Additional furnishing of 1 phase, 3 phase or DALI 3-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



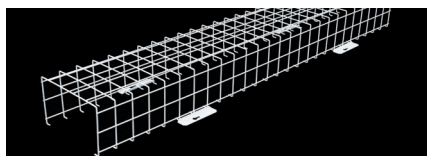
Code	Type	Description	Weight [kg]
11997	Z3F-2.4	3 phase cables for through-wiring at body 2.4ft	0,1
11998	Z3F-2.5	3 phase cables for through-wiring at body 2.5ft	0,1



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

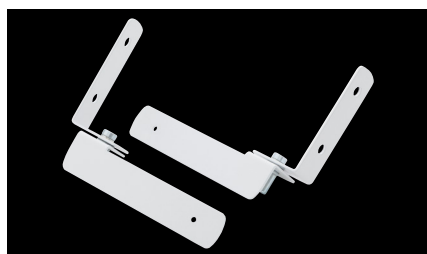
The metal grid protects the light fitting against mechanical damage and unauthorised handling. It is attached to the surface with the use of screws. The surface is treated with the RAL 9003 powder-coated colour.



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

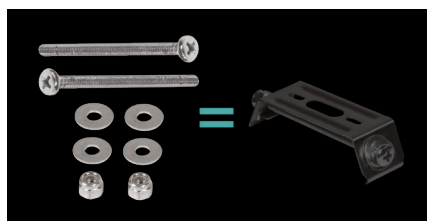
BZ – side hanger

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

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, DALI as standard. Not possible with E-CON variant.



FROST



INDUSTRIAL
PLASTIC
DUSTPROOF
WATERPROOF
FROSTPROOF
IMPACT-RESISTANT



FROST – industrial plastic LED light fitting

FROST
page 202



IP66

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FROST PLUS
page 205



IP66

FROST PLUS
page 205



EUROPEAN UNION
EUROPEAN REGIONAL DEVELOPMENT FUND
INVESTMENT IN YOUR FUTURE

FROST



BIM
ready

... for cold stores and freezing facilities with temperatures down to -25 °C

USE

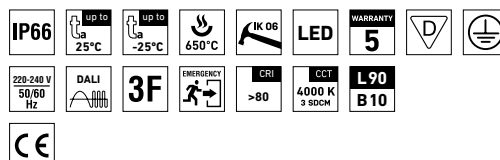
Temperatures of chilled foods range from 0–5 degrees, whilst in freezing facilities can drop up to -25 degrees Celsius. Suitable luminaires for such demanding environments must handle extreme low temperatures, withstand condensation and vapors, have low maintenance and long service life to keep costs 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.

ADVANTAGES

- Light fitting protection IP66
- Minimum ambient temperature down to $t_a = -25\text{ °C}$
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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

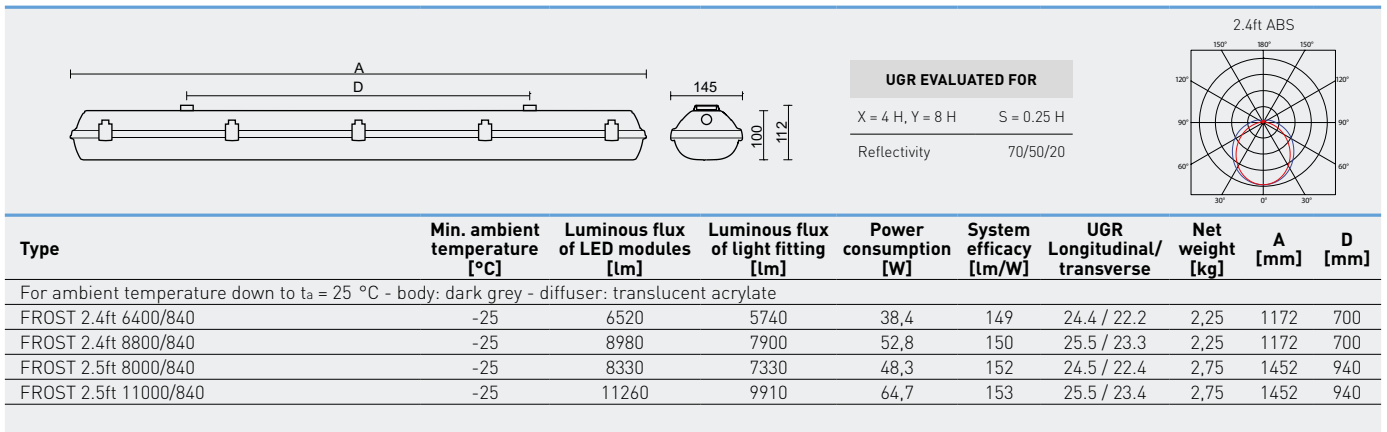


FROST



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Minimum ambient temperature: $t_a = -25\text{ }^\circ\text{C}$, Minimum ambient temperature: $t_a = -20\text{ }^\circ\text{C}$ (version with emergency back-up M3hAt)
- 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
- Lifetime: 100,000 hours / L80B10
- 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



The emergency version "M3hAt" operates in a temperature range of -20 to +25°C without the need to heat the battery.

FROST

Non-dimmable driver - plastic clips

Code	Type	3F	M3hAt	3F M3hAt
103095	FROST 2.4ft 6400/840	103101	109559	109565
103096	FROST 2.4ft 8800/840	103102	109560	109566
103098	FROST 2.5ft 8000/840	103104	109562	109568
103099	FROST 2.5ft 11000/840	103105	109563	109569

LEGEND

- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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**

FROST



FROST PLUS



BIM
ready

... for cold stores and freezing facilities with temperatures down to $-40\text{ }^{\circ}\text{C}$

USE

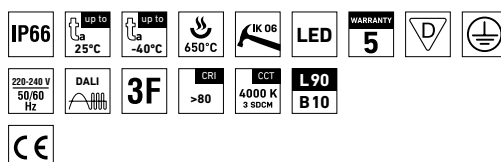
Temperatures of chilled foods range from 0–5 degrees, whilst in freezing facilities can drop up to -40 degrees Celsius. Suitable luminaires for such demanding environments must handle extreme low temperatures, withstand condensation and vapors, have low maintenance and long service life to keep costs 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 $t_a = -40\text{ }^{\circ}\text{C}$
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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: $t_a = 25\text{ }^\circ\text{C}$
- 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
- Lifetime: 100,000 hours / L80B10
- 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

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

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 $t_a = 25\text{ }^\circ\text{C}$ - body: dark grey - diffuser: translucent acrylate									
FROST PLUS 2.4ft 6400/840	-40	6520	5740	38,4	149	24.4 / 22.2	2,25	1172	700
FROST PLUS 2.4ft 8800/840	-40	8980	7900	52,8	150	25.5 / 23.3	2,25	1172	700
FROST PLUS 2.5ft 8000/840	-40	8330	7330	48,3	152	24.5 / 22.4	2,75	1452	940
FROST PLUS 2.5ft 11000/840	-40	11260	9910	64,7	153	25.5 / 23.4	2,75	1452	940

FROST PLUS

Non-dimmable driver - plastic clips

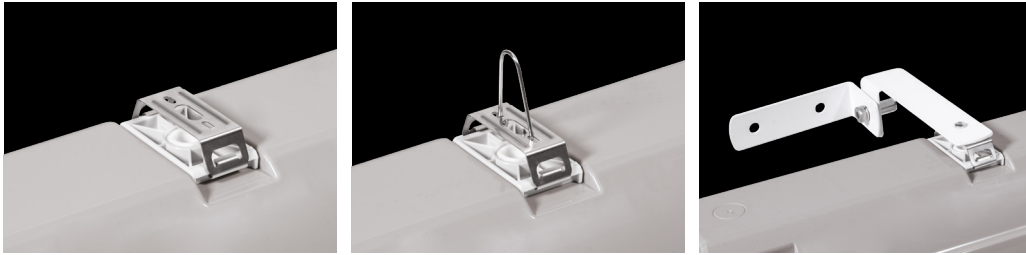
Code	Type	3F
103123	FROST PLUS 2.4ft 6400/840	103129
103124	FROST PLUS 2.4ft 8800/840	103130
103126	FROST PLUS 2.5ft 8000/840	103132
103127	FROST PLUS 2.5ft 11000/840	103133

LEGEND

3F - 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 PLUS



MIDDLE EAST Ta 55



INDUSTRIAL
PLASTIC
DUSTPROOF
WATERPROOF
HEAT RESISTANT
IMPACT-RESISTANT



MIDDLE EAST Ta 55 – industrial plastic LED light fitting

MIDDLE EAST Ta 55
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MIDDLE EAST Ta 55
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IP66


BIM ready
www.bim.lighting/en



EUROPEAN UNION
EUROPEAN REGIONAL DEVELOPMENT FUND
INVESTMENT IN YOUR FUTURE

MIDDLE EAST Ta 55



... for high temperature.

USE

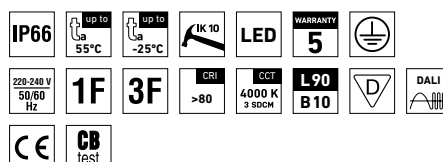
The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals, utility structures and laboratories without a danger of explosion of gas, dust and combustible fumes.

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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **$t_a = 55^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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 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
- Through-wiring of up to 7 wires at bodies of 1.4ft and 1.5ft type light fittings



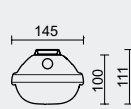
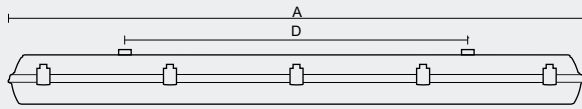
MIDDLE EAST Ta 55 PC, PCc



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
- Lifetime: 100,000 hours / L80B10
- 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.

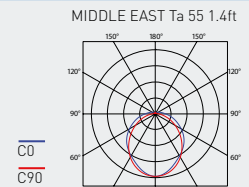
Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/transverse	Net weight [kg]	A [mm]	D [mm]
For ambient temperature $t_a = 55^\circ\text{C}$ - body: grey polycarbonate - diffuser: translucent polycarbonate									
MIDDLE EAST Ta 55 1.2ft PC 2200/840	55	2190	2060	14,6	141	22.9 / 20.7	1,3	612	475
MIDDLE EAST Ta 55 1.2ft PC 3200/840	55	3020	2840	20,5	139	23.9 / 21.8	1,3	612	475
MIDDLE EAST Ta 55 1.4ft PC 4400/840	55	4210	3960	28,0	141	22.9 / 21.0	1,9	1172	700
MIDDLE EAST Ta 55 1.4ft PC 6400/840	55	5920	5560	39,4	141	24.0 / 22.2	1,9	1172	700
MIDDLE EAST Ta 55 1.5ft PC 5500/840	55	5080	4780	33,9	141	22.7 / 20.9	2,3	1452	940
MIDDLE EAST Ta 55 1.5ft PC 8000/840	55	7230	6800	48,9	139	23.9 / 22.1	2,3	1452	940



UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20



MIDDLE EAST Ta 55 PC

plastic clips

Code	Type	1F	3F	DALI
51510	MIDDLE EAST Ta 55 1.2ft PC 2200/840	x	x	
51515	MIDDLE EAST Ta 55 1.2ft PC 3200/840	x	x	51524
51520	MIDDLE EAST Ta 55 1.4ft PC 4400/840	51521	51522	51523
51525	MIDDLE EAST Ta 55 1.4ft PC 6400/840	51526	51527	51533
51530	MIDDLE EAST Ta 55 1.5ft PC 5500/840	51531	51532	51528
51535	MIDDLE EAST Ta 55 1.5ft PC 8000/840	51536	51537	51538

MIDDLE EAST Ta 55 PCc

stainless clips (c)

Code	Type	1F	3F	DALI
51540	MIDDLE EAST Ta 55 1.2ft PCc 2200/840	x	x	
51545	MIDDLE EAST Ta 55 1.2ft PCc 3200/840	x	x	51529
51550	MIDDLE EAST Ta 55 1.4ft PCc 4400/840	51551	51552	51553
51555	MIDDLE EAST Ta 55 1.4ft PCc 6400/840	51556	51557	51563
51560	MIDDLE EAST Ta 55 1.5ft PCc 5500/840	51561	51562	51558
51565	MIDDLE EAST Ta 55 1.5ft PCc 8000/840	51566	51567	51568

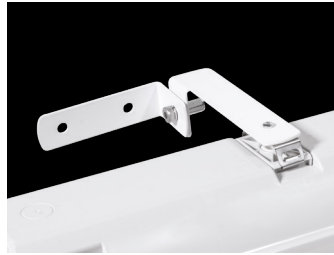
Example of type marking: 51567 = MIDDLE EAST Ta 55 1.5ft PCc 8000/840 3F

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 FOR ENVIRONMENT WITH A DANGER OF EXPLOSION 2/22
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IP66

PRIMA LED Ex
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PRIMA LED FOR ENVIRONMENT WITH A DANGER OF EXPLOSION 2/21
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IP66

PRIMA LED Ex 2/21
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PRIMA LED TUBE
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IP66

PRIMA LED TUBE
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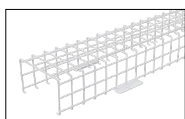
PRIMA LED TUBE SLIM
page 225



IP66

PRIMA LED TUBE
SLIM
page 225

PRIMA LED ACCESSORIES
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PRIMA LED
ACCESSORIES
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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:

- Ⓜ II 3G Ex nR IIC T6 Gc
- Ⓜ II 3D Ex tc IIIC T70°C Dc

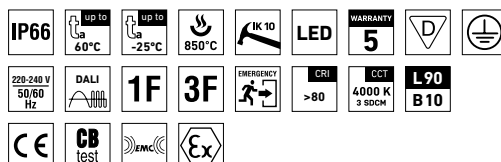
The basic requirements for safety and health protection are secured by the verification of conformity with the standards according to ČSN EN 60079-15, ČSN EN 60079-0 and ČSN EN 60079-31.

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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 60°C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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
- Certification: CB, TÜV CY 22 ATEX 0206610 X

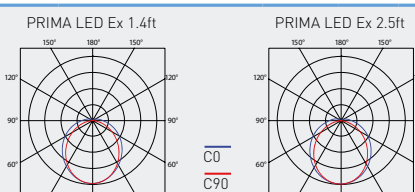
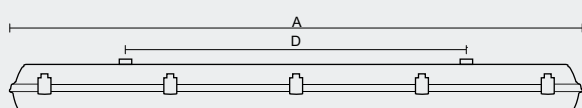


PRIMA LED Ex PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: from -25 to 60 °C
- Maximum ambient temperature: from 0 to 45 °C (version with emergency back-up source for 3 hours; 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
- Lifetime: 100,000 hours / L80B10
- 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
- Cable glands: screwed M20 x 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	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]
	ON/OFF	M3hAt								
For ambient temperature $t_a = 60\text{ °C}$ - body: grey polycarbonate - diffuser: translucent polycarbonate										
PRIMA LED Ex 1.2ft PCc 1600/840	-25 / 60	0 / 45	1630	1420	10,5	135	21.5 / 19.2	2,0	662	350
PRIMA LED Ex 1.2ft PCc 2200/840	-25 / 55	0 / 45	2360	2050	14,6	140	22.8 / 20.5	2,0	662	350
PRIMA LED Ex 1.4ft PCc 3200/840	-25 / 60	0 / 45	3260	2840	20,1	141	21.7 / 19.6	3,2	1272	700
PRIMA LED Ex 1.4ft PCc 4400/840	-25 / 55	0 / 45	4520	3930	27,3	144	22.8 / 20.7	3,3	1272	700
PRIMA LED Ex 1.4ft PCc 6400/840	-25 / 55	x	6500	5660	38,5	147	24.1 / 22.0	3,3	1272	700
PRIMA LED Ex 1.5ft PCc 4000/840	-25 / 60	0 / 45	4180	3640	25,3	144	21.8 / 19.7	4,1	1572	940
PRIMA LED Ex 1.5ft PCc 5500/840	-25 / 55	0 / 45	5590	4860	33,3	146	22.8 / 20.8	4,2	1572	940
PRIMA LED Ex 1.5ft PCc 8000/840	-25 / 55	x	8020	6980	47,4	147	24.1 / 22.0	4,2	1572	940
PRIMA LED Ex 2.2ft PCc 3200/840	-25 / 60	0 / 40	3250	2830	20,1	141	23.9 / 21.6	2,1	662	350
PRIMA LED Ex 2.2ft PCc 4400/840	-25 / 55	0 / 35	4680	4070	28,3	144	25.2 / 22.9	2,1	662	350
PRIMA LED Ex 2.4ft PCc 6400/840	-25 / 60	0 / 45	6520	5670	38,4	148	24.1 / 21.8	3,4	1272	700
PRIMA LED Ex 2.4ft PCc 8800/840	-25 / 55	0 / 40	8980	7810	52,8	148	25.2 / 22.9	3,5	1272	700
PRIMA LED Ex 2.4ft PCc 12800/840	-25 / 40	x	12920	11240	74,8	150	26.4 / 24.1	3,7	1272	700
PRIMA LED Ex 2.5ft PCc 8000/840	-25 / 60	0 / 45	8330	7250	48,3	150	24.2 / 21.9	4,3	1572	940
PRIMA LED Ex 2.5ft PCc 11000/840	-25 / 55	0 / 40	11260	9800	64,7	151	25.2 / 23.0	4,4	1572	940
PRIMA LED Ex 2.5ft PCc 16000/840	-25 / 40	x	16100	14010	92,7	151	26.5 / 24.2	4,6	1572	940
PRIMA LED Ex 2.5ft PCc 20000/840	-25 / 40	x	19320	16810	111,2	151	27.1 / 24.9	4,6	1572	940

Energy consumption of M3hAt increased by 3 W until battery fully charged (max. 24 hours).

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	M3hAt	3F M3hAt
	10638	10646	12664	12670
	10639	10647	12665	12671
	14811	14813	12666	12672
	14821	14823	12667	12673
	63888	63881	x	x
	14831	14833	12668	12674
	14841	14843	12669	12675
	63892	63889	x	x
	10642	10649	12676	12682
	10643	10652	12677	12683
	14851	14853	12678	12684
	14861	14863	12679	12685
	63861	63893	x	x
	14871	14873	12680	12686
	14881	14883	12681	12687
	63866	63862	x	x
	63852	63867	x	x

PRIMA LED Ex PCc DALI

Digital dimmable driver DALI - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
14910	PRIMA LED Ex 1.4ft PCc 3200/840 DALI	14911	14913	12688	12692
14920	PRIMA LED Ex 1.4ft PCc 4400/840 DALI	14921	14923	12689	12693
63891	PRIMA LED Ex 1.4ft PCc 6400/840 DALI	63870	63900	x	x
14930	PRIMA LED Ex 1.5ft PCc 4000/840 DALI	14931	14933	12690	12694
14940	PRIMA LED Ex 1.5ft PCc 5500/840 DALI	14941	14943	12691	12695
63895	PRIMA LED Ex 1.5ft PCc 8000/840 DALI	63875	63871	x	x
10668	PRIMA LED Ex 2.2ft PCc 3200/840 DALI	10682	12696	12698	12704
10669	PRIMA LED Ex 2.2ft PCc 4400/840 DALI	10684	12697	12699	12705
14950	PRIMA LED Ex 2.4ft PCc 6400/840 DALI	14951	14953	12700	12706
14960	PRIMA LED Ex 2.4ft PCc 8800/840 DALI	14961	14963	12701	12707
63864	PRIMA LED Ex 2.4ft PCc 12800/840 DALI	63856	63876	x	x
14970	PRIMA LED Ex 2.5ft PCc 8000/840 DALI	14971	14973	12702	12708
14980	PRIMA LED Ex 2.5ft PCc 11000/840 DALI	14981	14983	12703	12709
63869	PRIMA LED Ex 2.5ft PCc 16000/840 DALI	63884	63857	x	x
63855	PRIMA LED Ex 2.5ft PCc 20000/840 DALI	63896	63885	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

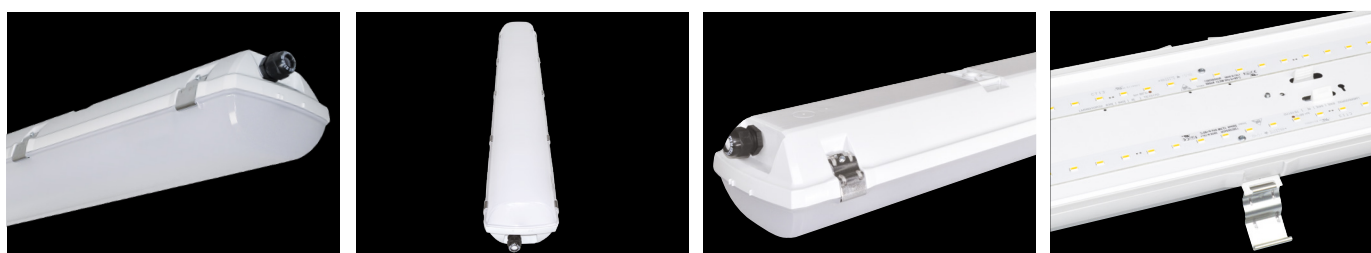
LIGHT FITTING ATTACHMENT

- 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 Ex 2/21

SUMMER 2025



... for explosion hazard environment group II, category 3, 2 (zone 2, 21).

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:

- II 3G Ex nR IIC T6 Gc
- II 2D Ex tb IIIC T70°C Db

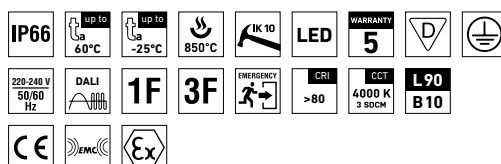
The basic requirements for safety and health protection are secured by the verification of conformity with the standards according to ČSN EN 60079-15, ČSN EN 60079-0 and ČSN EN 60079-31.

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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 60°C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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
- Certification: CB, TÜV CY 25 ATEX 0207317 X



PRIMA LED Ex 2/21 PCc



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: from -25 to 60 °C
- Maximum ambient temperature: from 0 to 45 °C (version with emergency back-up source for 3 hours; M3hAt)
- Maximum system efficacy: 151 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
- Lifetime: 100,000 hours / L80B10
- 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
- Cable glands: screwed M20 x 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	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]
	ON/OFF	M3hAt								
For ambient temperature $t_a = 60^\circ\text{C}$ - body: grey polycarbonate - diffuser: translucent polycarbonate										
PRIMA LED Ex 2/21 1.2ft PCc 1600/840	-25 / 60	0 / 45	1630	1420	10,5	135	21.5 / 19.2	2,0	662	350
PRIMA LED Ex 2/21 1.2ft PCc 2200/840	-25 / 55	0 / 45	2360	2050	14,6	140	22.8 / 20.5	2,0	662	350
PRIMA LED Ex 2/21 1.4ft PCc 3200/840	-25 / 60	0 / 45	3260	2840	20,1	141	21.7 / 19.6	3,2	1272	700
PRIMA LED Ex 2/21 1.4ft PCc 4400/840	-25 / 55	0 / 45	4520	3930	27,3	144	22.8 / 20.7	3,3	1272	700
PRIMA LED Ex 2/21 1.4ft PCc 6400/840	-25 / 55	x	6500	5660	38,5	147	24.1 / 22.0	3,3	1272	700
PRIMA LED Ex 2/21 1.5ft PCc 4000/840	-25 / 60	0 / 45	4180	3640	25,3	144	21.8 / 19.7	4,1	1572	940
PRIMA LED Ex 2/21 1.5ft PCc 5500/840	-25 / 55	0 / 45	5590	4860	33,3	146	22.8 / 20.8	4,2	1572	940
PRIMA LED Ex 2/21 1.5ft PCc 8000/840	-25 / 55	x	8020	6980	47,4	147	24.1 / 22.0	4,2	1572	940
PRIMA LED Ex 2/21 2.2ft PCc 3200/840	-25 / 60	0 / 40	3250	2830	20,1	141	23.9 / 21.6	2,1	662	350
PRIMA LED Ex 2/21 2.2ft PCc 4400/840	-25 / 55	0 / 35	4680	4070	28,3	144	25.2 / 22.9	2,1	662	350
PRIMA LED Ex 2/21 2.4ft PCc 6400/840	-25 / 60	0 / 45	6520	5670	38,4	148	24.1 / 21.8	3,4	1272	700
PRIMA LED Ex 2/21 2.4ft PCc 8800/840	-25 / 55	0 / 40	8980	7810	52,8	148	25.2 / 22.9	3,5	1272	700
PRIMA LED Ex 2/21 2.4ft PCc 12800/840	-25 / 40	x	12920	11240	74,8	150	26.4 / 24.1	3,7	1272	700
PRIMA LED Ex 2/21 2.5ft PCc 8000/840	-25 / 60	0 / 45	8330	7250	48,3	150	24.2 / 21.9	4,3	1572	940
PRIMA LED Ex 2/21 2.5ft PCc 11000/840	-25 / 55	0 / 40	11260	9800	64,7	151	25.2 / 23.0	4,4	1572	940
PRIMA LED Ex 2/21 2.5ft PCc 16000/840	-25 / 40	x	16100	14010	92,7	151	26.5 / 24.2	4,6	1572	940
PRIMA LED Ex 2/21 2.5ft PCc 20000/840	-25 / 40	x	19320	16810	111,2	151	27.1 / 24.9	4,6	1572	940

Energy consumption of M3hAt increased by 3 W until battery fully charged (max. 24 hours).

PRIMA LED Ex 2/21 PCc

Non-dimmable driver - stainless clips (c)

Code	Type	1F	3F	M3hAt	3F M3hAt
110375	PRIMA LED Ex 2/21 1.2ft PCc 1600/840	110392	110409	110426	110438
110376	PRIMA LED Ex 2/21 1.2ft PCc 2200/840	110393	110410	110427	110439
110377	PRIMA LED Ex 2/21 1.4ft PCc 3200/840	110394	110411	110428	110440
110378	PRIMA LED Ex 2/21 1.4ft PCc 4400/840	110395	110412	110429	110441
110379	PRIMA LED Ex 2/21 1.4ft PCc 6400/840	110396	110413	x	x
110380	PRIMA LED Ex 2/21 1.5ft PCc 4000/840	110397	110414	110430	110442
110381	PRIMA LED Ex 2/21 1.5ft PCc 5500/840	110398	110415	110431	110443
110382	PRIMA LED Ex 2/21 1.5ft PCc 8000/840	110399	110416	x	x
110383	PRIMA LED Ex 2/21 2.2ft PCc 3200/840	110400	110417	110432	110444
110384	PRIMA LED Ex 2/21 2.2ft PCc 4400/840	110401	110418	110433	110445
110385	PRIMA LED Ex 2/21 2.4ft PCc 6400/840	110402	110419	110434	110446
110386	PRIMA LED Ex 2/21 2.4ft PCc 8800/840	110403	110420	110435	110447
110387	PRIMA LED Ex 2/21 2.4ft PCc 12800/840	110404	110421	x	x
110388	PRIMA LED Ex 2/21 2.5ft PCc 8000/840	110405	110422	110436	110448
110389	PRIMA LED Ex 2/21 2.5ft PCc 11000/840	110406	110423	110437	110449
110390	PRIMA LED Ex 2/21 2.5ft PCc 16000/840	110407	110424	x	x
110391	PRIMA LED Ex 2/21 2.5ft PCc 20000/840	110408	110425	x	x

PRIMA LED Ex 2/21 PCc DALI

Code	Type
110450	PRIMA LED Ex 2/21 1.4ft PCc 3200/840 DALI
110451	PRIMA LED Ex 2/21 1.4ft PCc 4400/840 DALI
110452	PRIMA LED Ex 2/21 1.4ft PCc 6400/840 DALI
110453	PRIMA LED Ex 2/21 1.5ft PCc 4000/840 DALI
110454	PRIMA LED Ex 2/21 1.5ft PCc 5500/840 DALI
110455	PRIMA LED Ex 2/21 1.5ft PCc 8000/840 DALI
110456	PRIMA LED Ex 2/21 2.2ft PCc 3200/840 DALI
110457	PRIMA LED Ex 2/21 2.2ft PCc 4400/840 DALI
110458	PRIMA LED Ex 2/21 2.4ft PCc 6400/840 DALI
110459	PRIMA LED Ex 2/21 2.4ft PCc 8800/840 DALI
110460	PRIMA LED Ex 2/21 2.4ft PCc 12800/840 DALI
110461	PRIMA LED Ex 2/21 2.5ft PCc 8000/840 DALI
110462	PRIMA LED Ex 2/21 2.5ft PCc 11000/840 DALI
110463	PRIMA LED Ex 2/21 2.5ft PCc 16000/840 DALI
110464	PRIMA LED Ex 2/21 2.5ft PCc 20000/840 DALI

Digital dimmable driver DALI - stainless clips (c)

	1F	3F	M3hAt	3F M3hAt
	110465	110480	110497	110505
	110466	110481	110498	110506
	110467	110482	x	x
	110468	110483	110499	110507
	110469	110484	110500	110508
	110470	110485	x	x
	110471	110486	110495	110509
	110472	110487	110496	110510
	110473	110488	110501	110511
	110474	110489	110502	110512
	110475	110490	x	x
	110476	110491	110503	110513
	110477	110492	110504	110514
	110478	110493	x	x
	110479	110494	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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 2/21



PRIMA LED TUBE



... dustproof, waterproof and impact-resistant.

USE

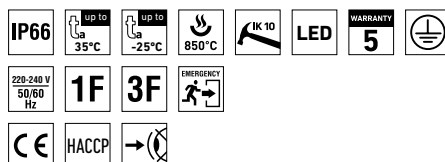
The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals and utility structures without a danger of explosion of gas, dust and combustible fumes.

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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

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 5 wires at bodies of 2x120 and 2x150 type light fittings

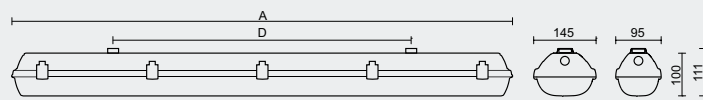


PRIMA LED TUBE PC, PCc

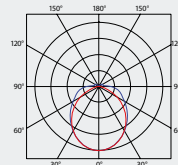


TECHNICAL DESCRIPTION

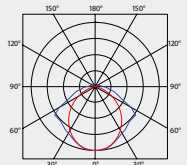
- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$,
- Maximum system efficacy: 94 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- Diffuser: transparent polycarbonate (PC), UV stable, impact-resistant
- Body: grey polycarbonate (PC), UV stable, impact-resistant
- 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



PRIMA LED TUBE 1x120



PRIMA LED TUBE 2x120



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							
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

For LED tubes Osram SubstiTUBE T8 EM Value - plastic clips

Code	Type	1F	3F
37510	PRIMA LED TUBE 1x60 PC	37511	37513
37520	PRIMA LED TUBE 1x120 PC	37521	37523
37530	PRIMA LED TUBE 1x150 PC	37531	37533
37540	PRIMA LED TUBE 2x60 PC	37541	37543
37550	PRIMA LED TUBE 2x120 PC	37551	37553
37560	PRIMA LED TUBE 2x150 PC	37561	37563

PRIMA LED TUBE PCc

For LED tubes Osram SubstiTUBE T8 EM Value - stainless clips (c)

Code	Type	1F	3F
37610	PRIMA LED TUBE 1x60 PCc	37611	37613
37620	PRIMA LED TUBE 1x120 PCc	37621	37623
37630	PRIMA LED TUBE 1x150 PCc	37631	37633
37640	PRIMA LED TUBE 2x60 PCc	37641	37643
37650	PRIMA LED TUBE 2x120 PCc	37651	37653
37660	PRIMA LED TUBE 2x150 PCc	37661	37663

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

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



... dustproof, waterproof and impact-resistant.

USE

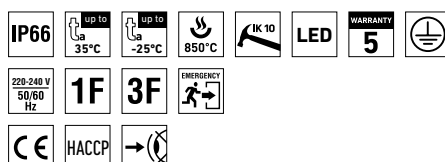
The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, sports areas, workshops, garages, transport terminals and utility structures without a danger of explosion of gas, dust and combustible fumes.

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.

Emissions in the environment of use may reduce the usability of the plastics; for more information see page 407.

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 5 wires at bodies of 2x120 and 2x150 type light fittings

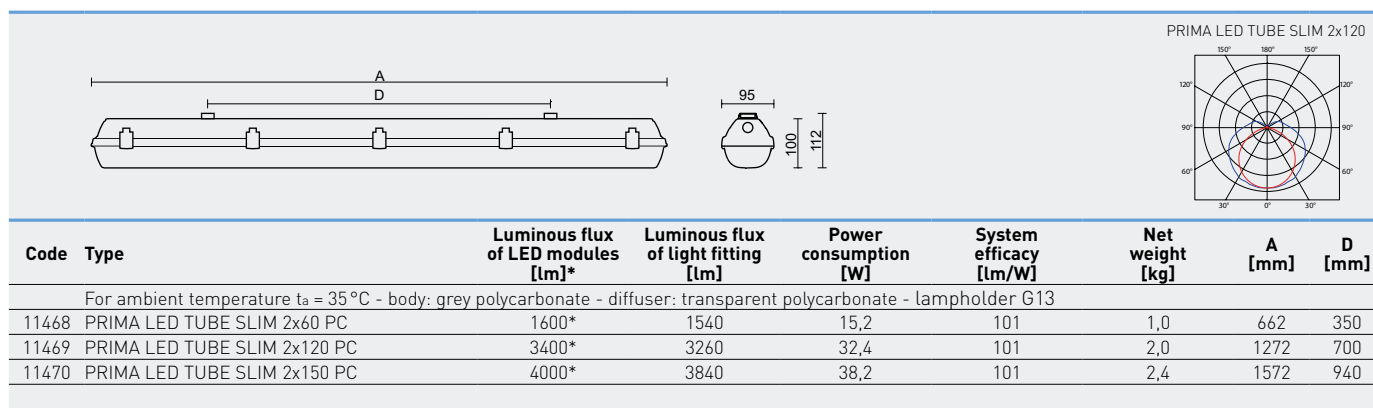


PRIMA LED TUBE SLIM PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$
- 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



* - total luminous flux of the light fitting with Osram SubstiTUBE T8 EM Value sources

PRIMA LED TUBE SLIM PC

For LED tubes Osram SubstiTUBE T8 EM Value - plastic clips

Code	Type	1F	3F
11468	PRIMA LED TUBE SLIM 2x60 PC	11471	11474
11469	PRIMA LED TUBE SLIM 2x120 PC	11472	11475
11470	PRIMA LED TUBE SLIM 2x150 PC	11473	11476

PRIMA LED TUBE SLIM PCc

For LED tubes Osram SubstiTUBE T8 EM Value - stainless clips (c)

Code	Type	1F	3F
11489	PRIMA LED TUBE SLIM 2x60 PCc	11492	11495
11490	PRIMA LED TUBE SLIM 2x120 PCc	11493	11496
11491	PRIMA LED TUBE SLIM 2x150 PCc	11494	11497

Example of type marking: 11496 = PRIMA LED TUBE SLIM 2x120 PCc **3F**

LEGEND

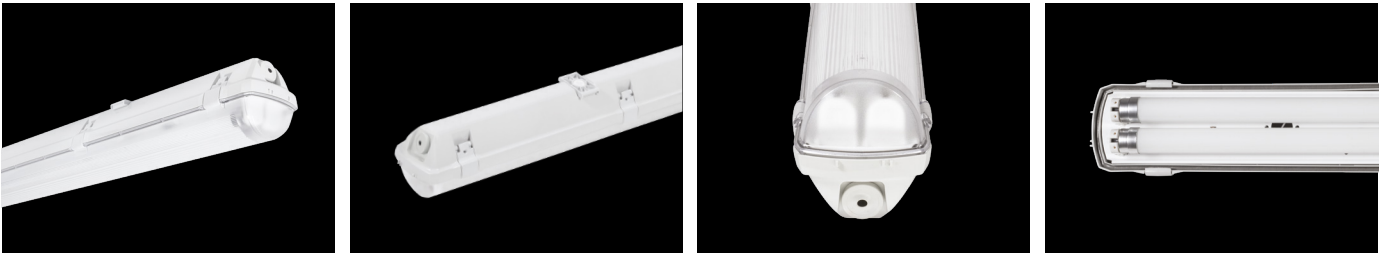
- 1F** 1-phase 3 core through-wiring in the luminaire
- 3F** 3-phase 5 core through-wiring in the luminaire

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

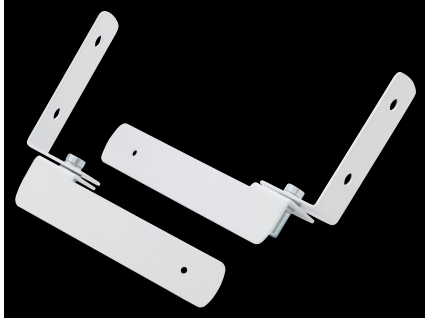
**LIGHT FITTING DETAILED VIEW**

PRIMA LED TUBE SLIM



BZ – side hanger

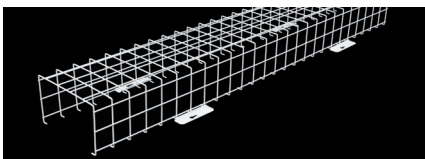
It serves to attach the light fitting to the wall with the possibility of its positioning.



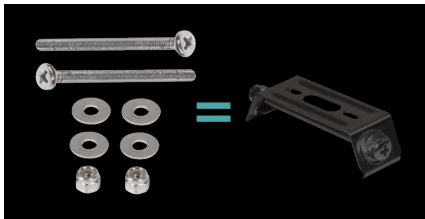
Code	Type	Description	Weight [kg]
90002	BZ	side hanger with blocking (set for 1 light fitting)	0,4

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 HCL



... 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.

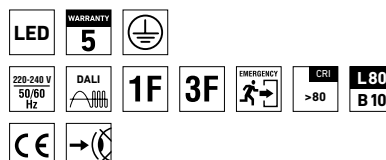
Here is how HCL works. Imagine you and your children are waking up on a Monday morning. Warm, lower intensity light at sunrise will give your family a soft start to the day while cooler light will help you concentrate at the important meeting later on. Switching back to warm light later in the afternoon 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 PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
	EXAMPLE							
107072	NANOTTICA 1.4ft PC 4400/827-865 TW	45	4040	26,0	155	1,9	1170	700 - 960
107073	NANOTTICA 1.5ft PC 5500/827-865 TW	45	5020	31,9	157	2,2	1450	970 - 1230

PRIMA PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
	EXAMPLE							
107000	PRIMA 1.4ft PC 4400/827-865 TW	45	4000	26,0	154	1,9	1170	700 - 960
107001	PRIMA 1.5ft PC 5500/827-865 TW	45	4970	31,9	156	2,2	1450	970 - 1230

INNOVA PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
	EXAMPLE							
107006	INNOVA 1.4ft PC 4400/827-865 TW	45	4040	26,0	155	1,8	1170	420 - 700
107007	INNOVA 1.5ft PC 5500/827-865 TW	45	5020	31,9	157	2,0	1450	700 - 980

FUTURA PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
	EXAMPLE							
107012	FUTURA 2.4ft PC Al 8800/827-865 TW	45	8170	49,7	164	2,7	1172	700
107013	FUTURA 2.5ft PC Al 11000/827-865 TW	45	11570	71,1	163	3,2	1452	940

LINEA PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
	EXAMPLE							
107076	LINEA 1.4ft 4400/827-865 TW	35	3610	26,0	139	2,1	1160	650
107077	LINEA 2.4ft 8800/827-865 TW	35	7130	49,7	143	2,1	1160	650

NAOS PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
	EXAMPLE							
107078	NAOS 1.4ft 4400/827-865 TW	35	3310	26,0	127	3,9	1180	1030
107079	NAOS 1.5ft 5500/827-865 TW	35	4110	31,9	129	4,6	1460	1310

NAON PC TW

Code	Type	Max. ambient temperature [°C]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
	EXAMPLE							
107074	NAON 1.4ft 4400/827-865 TW	35	3310	26,0	127	3,6	1200	1130
107075	NAON 1.5ft 5500/827-865 TW	35	4110	31,9	129	4,2	1480	1410

CONCEPT HCL



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

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

LEGEND

- xx** – materials (PC, ABS, applicable for the luminaires NANOTTICA, PRIMA, INNOVA and FUTURA)
- TW** – HUMAN CENTRIC LIGHTING

A TW module is available for most of our luminaires:

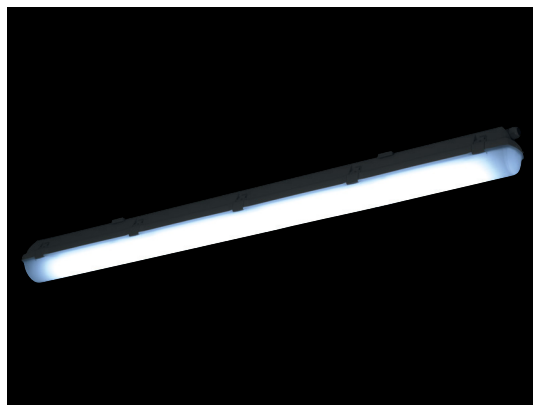
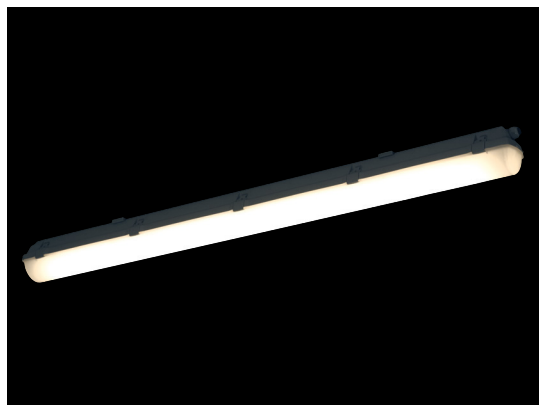
Industrial fittings:

- NANOTTICA
- PRIMA
- INNOVA
- FUTURA
- PERUN SLIM
- ALUMAX LED

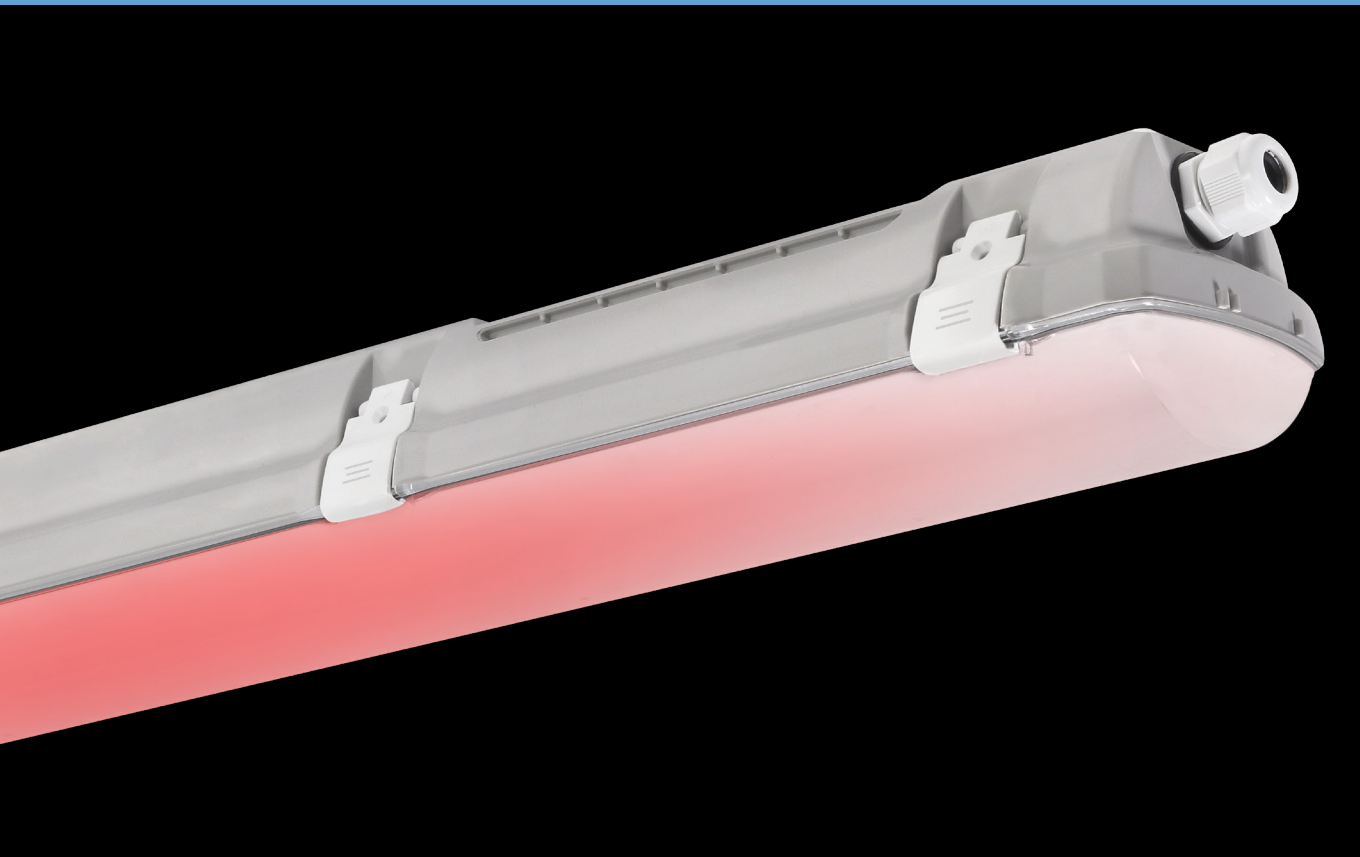
Indoor fittings:

- LINEA
- BELTR LED
- NAOS
- NAON

LUMINAIRES FITTED WITH A TUNABLE WHITE LIGHT MODULE – DEMO



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.

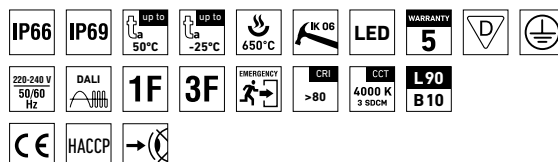
It can be integrated into our PRIMA, INNOVA and FUTURA lighting.

The light fixtures withstand exposure to chemically aggressive environments (ammonia in the air) typical of livestock farms.

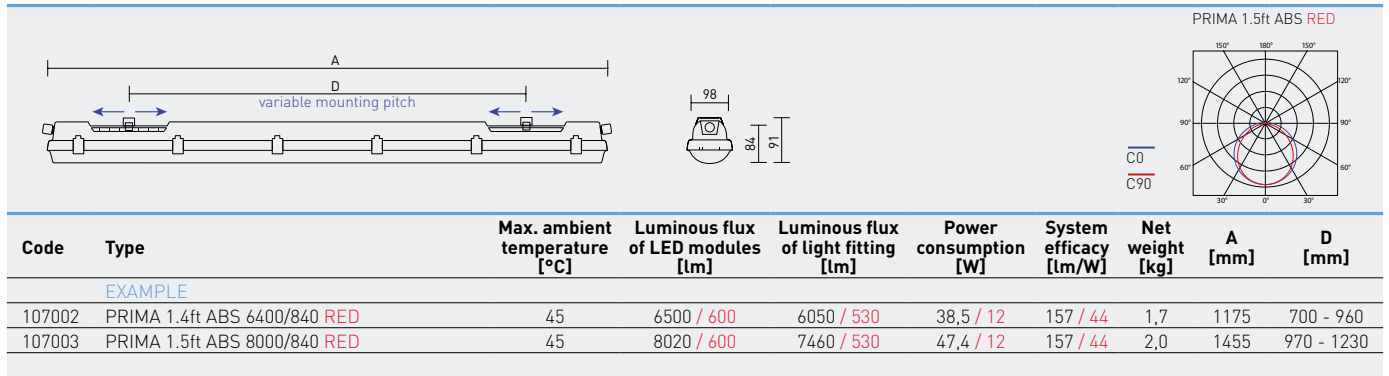
The body made of ABS and the diffuser made of AC have increased chemical resistance.

In addition to being protected against dust and humidity (IP66), the fixtures boast excellent thermal resistance, withstanding temperatures up to 50 °C.

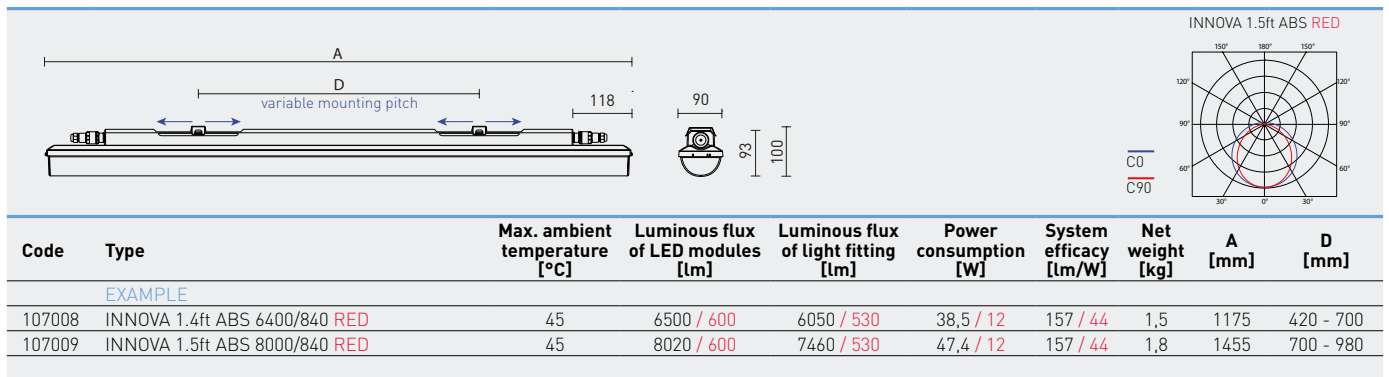
IP69-rated, our PRIMA and INNOVA-range fittings may be washed using hot water (up to 80 °C).



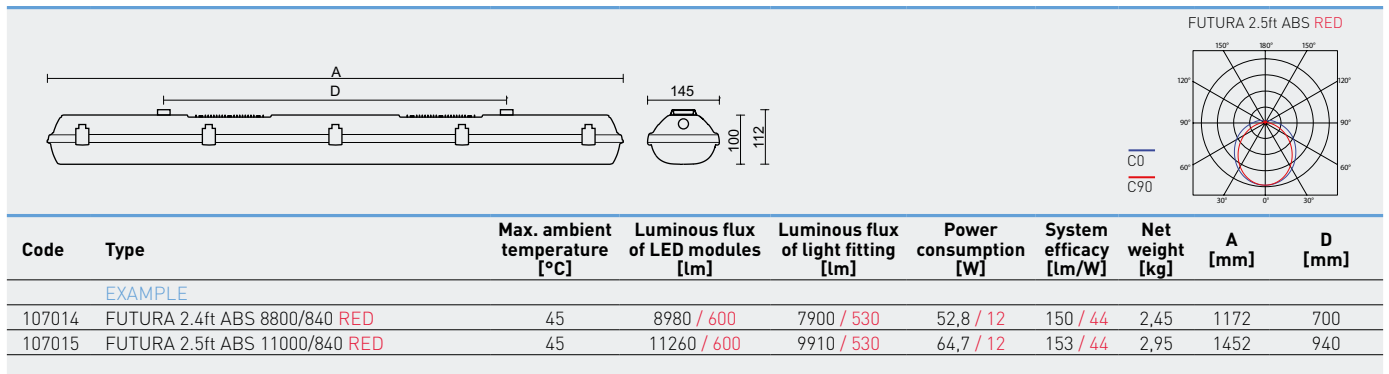
PRIMA ABS RED



INNOVA ABS RED



FUTURA ABS RED RED

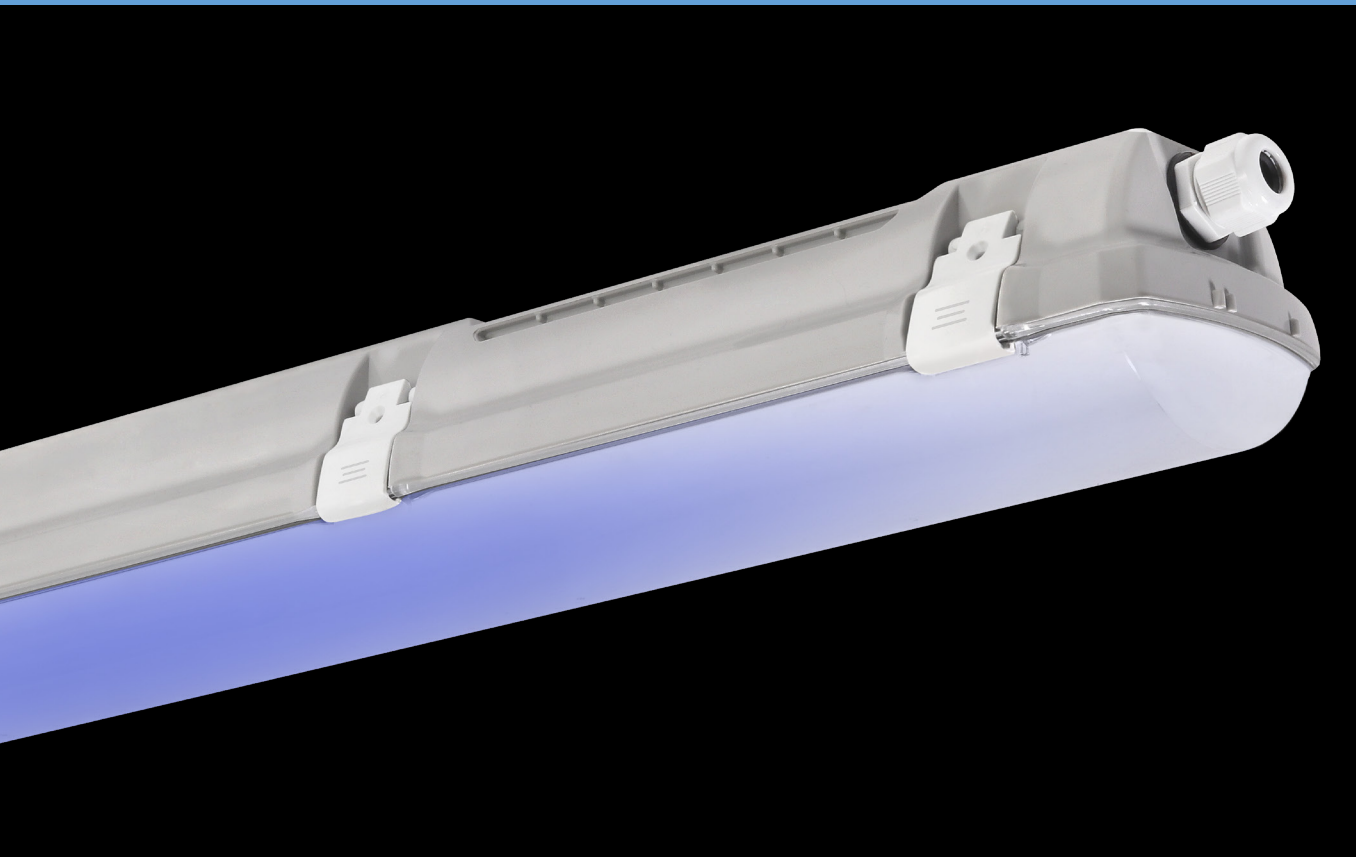


LIGHT FITTING DETAILED VIEW

CONCEPT RED



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.

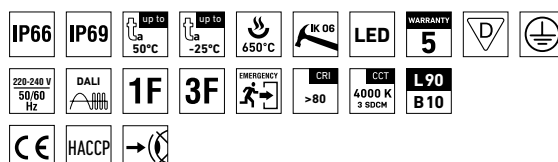
Our PRIMA, INNOVA, and FUTURA-range luminaires may be fitted with this module.

The light fixtures withstand exposure to chemically aggressive environments (ammonia in the air) typical of livestock farms.

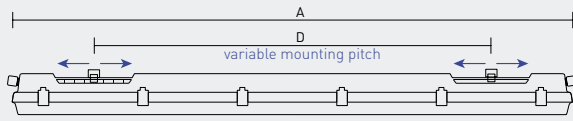
The body made of ABS and the diffuser made of AC have increased chemical resistance. In addition to being protected against dust and humidity

(IP66), the fixtures boast excellent thermal resistance, withstanding temperatures up to 50 °C.

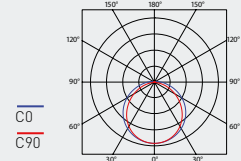
IP69-rated, our PRIMA and INNOVA-range fittings may be washed using hot water (up to 80 °C).



PRIMA ABS BLUE

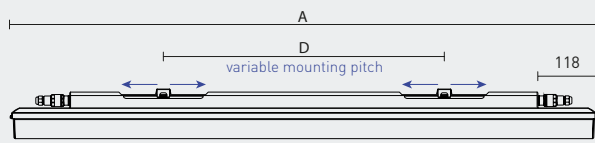


PRIMA 1.5ft ABS BLUE

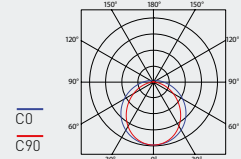


Code	Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
EXAMPLE									
107004	PRIMA 1.4ft ABS 6400/840 BLUE	45	6500 / 640	6050 / 560	38,5 / 16	157 / 35	1,7	1175	700 - 960
107005	PRIMA 1.5ft ABS 8000/840 BLUE	45	8020 / 640	7460 / 560	47,4 / 16	157 / 35	2,0	1455	970 - 1230

INNOVA ABS BLUE

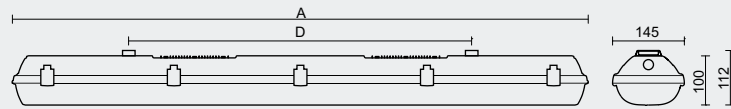


INNOVA 1.5ft ABS BLUE

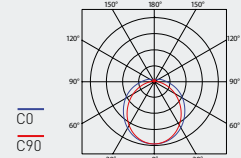


Code	Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]	A [mm]	D [mm]
EXAMPLE									
107010	INNOVA 1.4ft ABS 6400/840 BLUE	45	6500 / 640	6050 / 560	38,5 / 16	157 / 35	1,5	1175	420 - 700
107011	INNOVA 1.5ft ABS 8000/840 BLUE	45	8020 / 640	7460 / 560	47,4 / 16	157 / 35	1,8	1455	700 - 980

FUTURA ABS BLUE



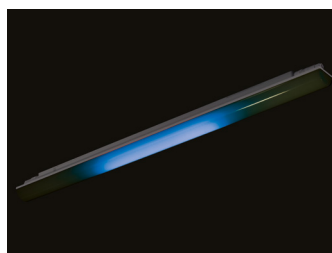
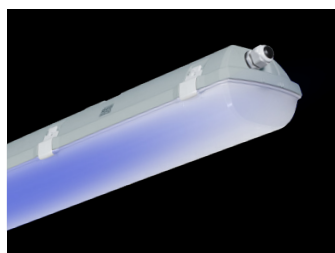
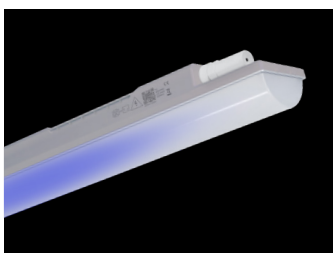
FUTURA 2.5ft ABS BLUE



Code	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									
107016	FUTURA 2.4ft ABS 8800/840 BLUE	45	8980 / 640	7900 / 560	52,8 / 16	150 / 35	2,45	1172	700
107017	FUTURA 2.5ft ABS 11000/840 BLUE	45	11260 / 640	9910 / 560	64,7 / 16	153 / 35	2,95	1452	940

LIGHT FITTING DETAILED VIEW

CONCEPT BLUE



CONCEPT MARBLE MEAT



... for meat presentation.

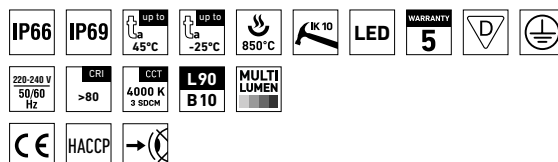
USE

Luminaires with a special LED module that highlights the red colour, texture of meat and meat products. They help to increase the aesthetic appeal of meat products and encourage customers to buy them.

The luminaires are designed primarily for supermarkets with a meat department, grocery stores and butcher shops, restaurants with meat displays, meat fairs and all stores that want their red-coloured products to really stand out.

As part of our meat lighting concept, we offer two different luminaires - NANOTTICA and PRIMA. Both are equipped with a practical MultiLumen function.

Multilumen: the function allows the user to simply set one of the four available wattages to suit their current lighting needs. (Using a DIP switch on the driver.)



NANOTTICA PC MARBLE ML

Code	Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Preselected Step 1 of MultiLumen function			Net weight [kg]	A [mm]	D [mm]
				Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]			
Up to ambient temperature $t_a = 45\text{ °C}$ - body: grey polycarbonate - diffusor with nanooptics (standard beam angle), transparent polycarbonate									
12621	NANOTTICA 1.2ft PC MARBLE ML	45	1150	1080	15,9	68	0,9	615	110 - 370
12622	NANOTTICA 1.4ft PC MARBLE ML	45	2300	2160	31,7	68	1,7	1175	700 - 960
12623	NANOTTICA 1.5ft PC MARBLE ML	45	2880	2710	39,6	68	2,0	1455	970 - 1230

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
NANOTTICA 1.2ft PC MARBLE ML	920	13,7	67	770	11,4	68	610	9,1	67
NANOTTICA 1.4ft PC MARBLE ML	1850	27,2	68	1540	22,7	68	1230	18,1	68
NANOTTICA 1.5ft PC MARBLE ML	2310	34,0	68	1930	28,3	68	1540	22,6	68

NANOTTICA ABS MARBLE ML

Code	Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Preselected Step 1 of MultiLumen function			Net weight [kg]	A [mm]	D [mm]
				Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]			
Up to ambient temperature $t_a = 45\text{ °C}$ - body dark grey ABS - diffusor with nanooptics (standard beam angle), transparent acrylate									
12624	NANOTTICA 1.2ft ABS MARBLE ML	45	1150	1010	15,9	64	0,9	615	110 - 370
12625	NANOTTICA 1.4ft ABS MARBLE ML	45	2300	2020	31,7	64	1,7	1175	700 - 960
12626	NANOTTICA 1.5ft ABS MARBLE ML	45	2880	2530	39,6	64	2,0	1455	970 - 1230

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
NANOTTICA 1.2ft ABS MARBLE ML	860	13,7	63	720	11,4	63	570	9,1	63
NANOTTICA 1.4ft ABS MARBLE ML	1730	27,2	64	1440	22,7	63	1150	18,1	64
NANOTTICA 1.5ft ABS MARBLE ML	2160	34,0	64	1800	28,3	64	1440	22,6	64

NANOTTICA PC MARBLE ML

NANOTTICA ABS MARBLE ML



PRIMA PC MARBLE ML

Code	Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Preselected Step 1 of MultiLumen function			Net weight [kg]	A [mm]	D [mm]
				Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]			
Up to ambient temperature $t_a = 45\text{ °C}$ - body: grey polycarbonate - diffuser: translucent polycarbonate									
12627	PRIMA 1.2ft PC MARBLE ML	45	1150	1070	15,9	67	0,9	615	110 - 370
12628	PRIMA 1.4ft PC MARBLE ML	45	2300	2140	31,7	68	1,7	1175	700 - 960
12629	PRIMA 1.5ft PC MARBLE ML	45	2880	2680	39,6	68	2,0	1455	970 - 1230

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
PRIMA 1.2ft PC MARBLE ML	910	13,7	66	760	11,4	67	600	9,1	66
PRIMA 1.4ft PC MARBLE ML	1830	27,2	67	1530	22,7	67	1220	18,1	67
PRIMA 1.5ft PC MARBLE ML	2290	34,0	67	1910	28,3	67	1530	22,6	68

PRIMA ABS MARBLE ML

Code	Type	Max. ambient temperature [°C]	Luminous flux of LED modules [lm]	Preselected Step 1 of MultiLumen function			Net weight [kg]	A [mm]	D [mm]
				Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]			
Up to ambient temperature $t_a = 45\text{ °C}$ - body: dark grey ABS - diffuser: translucent ABS									
12630	PRIMA 1.2ft ABS MARBLE ML	45	1150	1070	15,9	67	0,9	615	110 - 370
12631	PRIMA 1.4ft ABS MARBLE ML	45	2300	2140	31,7	68	1,7	1175	700 - 960
12632	PRIMA 1.5ft ABS MARBLE ML	45	2880	2680	39,6	68	2,0	1455	970 - 1230

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
PRIMA 1.2ft ABS MARBLE ML	910	13,7	66	760	11,4	67	600	9,1	66
PRIMA 1.4ft ABS MARBLE ML	1830	27,2	67	1530	22,7	67	1220	18,1	67
PRIMA 1.5ft ABS MARBLE ML	2290	34,0	67	1910	28,3	67	1530	22,6	68

PRIMA PC MARBLE ML



PRIMA ABS MARBLE ML



TrEx



INDUSTRIAL
STEEL / INOX
DUSTPROOF
WATERPROOF



TrEx – industrial metal LED light fitting for the environment with a danger of explosion

TrEx
page 242



TrEx
page 242

IP66

TrEx
ACCESSORIES
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TrEx
ACCESSORIES
page 246

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.

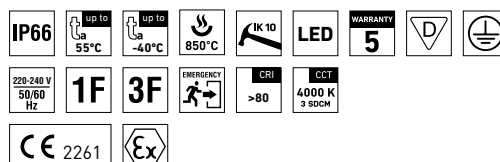
USE IN ENVIRONMENT WITH HAZARD OF EXPLOSION

TÜV CY 21 ATEX 0206562X	Light fitting with disconnecter	II 2G Ex db eb mb op is IIC T4 Gb
	Light fitting Mxh with disconnecter	II 2D Ex tb IIIC T68°C Db
AR19ATEX131U	Light fitting without disconnecter	II 2G Ex eb mb op is IIC T4 Gb
	Light fitting Mxh without disconnecter	II 2D Ex tb IIIC T68°C Db
AR19ATEX131U	Ex battery box HM 4Ah	II 2G Ex d IIC T4 Gb
TÜV CY 20 ATEX 0206368 U	Ex disconnecter OT 2A-2C Ex d	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 °C to t_a = 55 °C**
- For hazardous areas of zones 1, 21 and 2, 22
- Lifetime: 75 000 hours / L80B50 at t_a = 55 °C, 110 000 hours / L70B50 at t_a = 55 °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



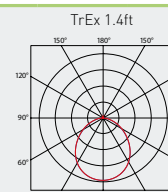
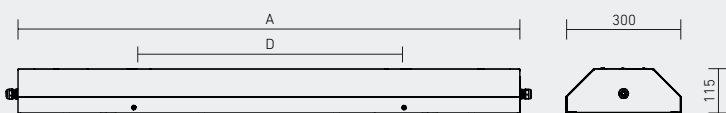
TECHNICAL DESCRIPTION

- 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 3hrs; 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: satedated tempered safety glass
- Sealing: glued EPDM
- Cable glands: plastic ATEX M20 x 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 x M6
- Electric equipment: LED modules, current driver, disconnecter and Ex battery box with ATEX certificate
- The watt and lumen values can vary by $\pm 7,5\%$

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 x 1,5 or M25 x 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

Type	Min. and max. ambient temperature [°C]	Emergency light flux of light fitting 1h [lm]	Emergency light flux of light fitting 3h [lm]	Power in standby mode [W]	Battery type	Net weight [kg]
EM emergency lighting kit						
TrEx 1.2ft 4400/840 M3h	0 / 40	990	630	2	NiCd HT	+1,3
TrEx 1.4ft 8800/840 M3h	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 disconnecter

	1F	3F	M3h	3F M3h
	10357	10379	x	x
	10358	10382	10429	10451
	10359	10388	x	x
	10361	10389	10438	10453
	10362	10392	x	x
	10363	10398	x	x
	10366	10399	x	x
	10367	10402	x	x
	10368	10404	x	x
	10369	10405	x	x
	10372	10406	x	x
	10378	10407	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 disconnecter

	1F	3F	M3h	3F M3h
	10237	10253	x	x
	10238	10256	10298	10334
	10239	10257	x	x
	10241	10258	10302	10336
	10242	10259	x	x
	10243	10262	x	x
	10246	10268	x	x
	10247	10269	x	x
	10248	10272	x	x
	10249	10278	x	x
	10251	10279	x	x
	10252	10282	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 disconnecter, body steel sheet grade AISI 304

	1F	3F	M3h	3F M3h
	10537	10572	x	x
	10538	10574	10616	10632
	10539	10575	x	x
	10542	10576	10618	10636
	10548	10577	x	x
	10549	10578	x	x
	10552	10579	x	x
	10558	10582	x	x
	10559	10588	x	x
	10562	10589	x	x
	10568	10592	x	x
	10569	10598	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 disconnecter, body steel sheet grade AISI 304

	1F	3F	M3h	3F M3h
	10468	10480	x	x
	10469	10481	10499	10512
	10470	10482	x	x
	10471	10483	10501	10516
	10472	10484	x	x
	10473	10485	x	x
	10474	10486	x	x
	10475	10487	x	x
	10476	10488	x	x
	10477	10489	x	x
	10478	10490	x	x
	10479	10491	x	x

LEGEND

1F	1-phase 3 core through-wiring in the luminaire
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 M3h	3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)
DIS	light fitting with disconnecter

CERTIFICATION

TÜV CY 21 ATEX 0206562X - TrEx, TrEx Mxh		
Directive		Standards
2014/34/EU	ATEX	EN IEC 60079-0:2018
		EN 60079-1:2014
		EN 60079-7:2015
		EN 60079-18:2015
		EN 60079-28:2015
2014/35/EU	General requirements and standards	EN 60079-31:2014
		EN IEC 60598-1:2021
		EN IEC60598-2-1:2021
		EN IEC62471-7:2023
		EN IEC 55015:2019
		EN 60598-2-22:2014
		EN 61547:2009
		EN IEC 61000-3-2:12019
EN 61000-3-3:13		
2011/65/EN	RoHS	ČSN EN IEC 63000

AR19ATEX131U - Ex battery box HM4Ah

Directive		Standards
2014/34/EU	ATEX	EN IEC 60079-0:2018 EN 60079-1:2014

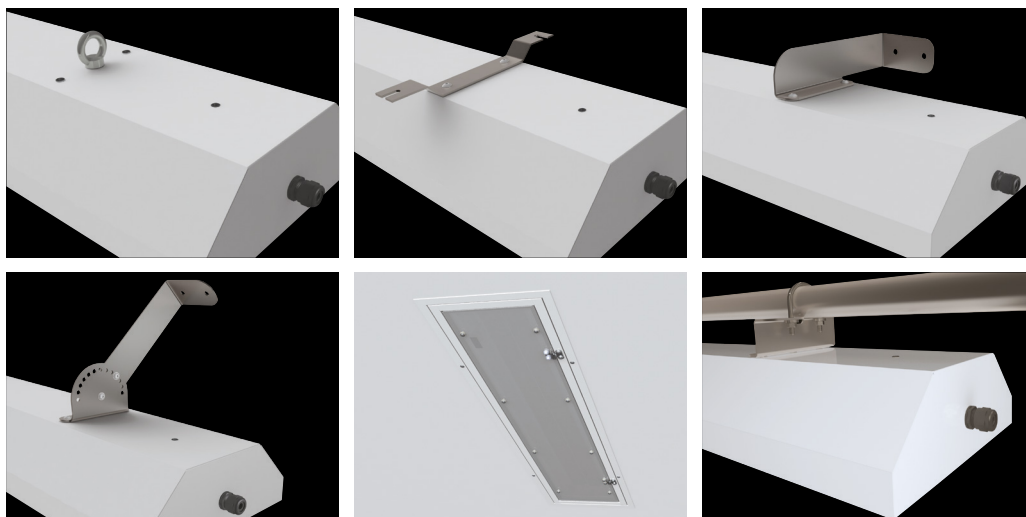
TÜV CY 20 ATEX 0206368 U - Ex disconnecter OT 2A-2C Ex d

Directive		Standards
2014/34/EU	ATEX	EN IEC 60079-0:2018 EN 60079-1:2014

	Identification of external influences	Classification of spaces	
		Identification	Establishment regulation
Hazard of explosion of flammable dust	BE3N1	ZONE 21, 22	EN 60079-17
			EN 60079-14
			EN 60079-10-2
Hazard of explosion of flammable gases and vapours	BE3N2	ZONE 1, 2	EN IEC 60079-10-1
			EN 60079-14
			EN 60079-17

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

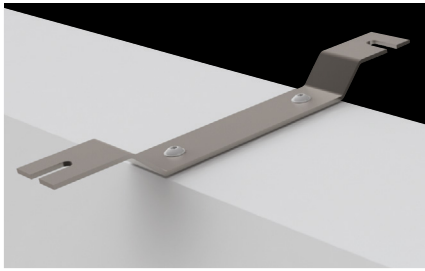
TrEx

version with disconnecter



Ceiling suspension

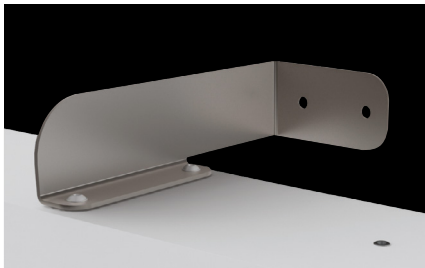
Serves for hanging the light fitting on the ceiling.



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
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IP65

PERUN SLIM
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PERUN SLIM Ex
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IP65

PERUN SLIM Ex
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PERUN SLIM



... stainless, dustproof, waterproof.

USE

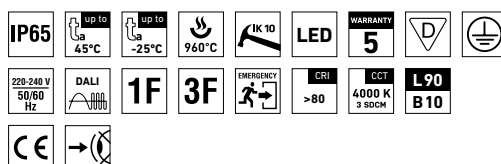
The light fitting is suitable for industrial indoor and outdoor roofed spaces, warehouses, garages, workshops, sports areas, transport terminals, utility structures, agricultural operations and laboratories without a danger of explosion of gas, dust and combustible fumes.

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 **$t_a = 45^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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 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

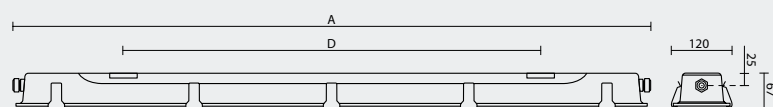


PERUN SLIM



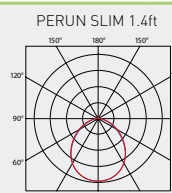
TECHNICAL DESCRIPTION

- Light fitting protection: IP65
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-40^\circ\text{C}$ with a back-up power supply 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
- Lifetime: 100,000 hours / L80B10
- Diffuser: satinated tempered safety glass
- Possibility of delivery of the diffuser with a safety foil (SF)
- Possibility of delivery of an EM kit M3hAt 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



UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H
Reflectivity 70/50/20



Type	Ambient temperature of LED modules [°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: polished thermally toughened safety glass									
PERUN SLIM 1.2ft 1600/840	-25 / 45	1560	1250	9,8	128	20.1 / 20.9	2,4	680	360
PERUN SLIM 1.2ft 2200/840	-25 / 45	2140	1710	13,2	130	21.2 / 22.0	2,4	680	360
PERUN SLIM 1.4ft 3200/840	-25 / 45	3100	2480	19,1	130	20.2 / 21.1	4,3	1290	850
PERUN SLIM 1.4ft 4400/840	-25 / 45	4300	3440	26,0	132	21.4 / 22.2	4,3	1290	850
PERUN SLIM 1.4ft 6400/840	-25 / 40	6120	4900	36,1	136	22.6 / 23.4	4,3	1290	850
PERUN SLIM 1.4ft 8800/840	-25 / 40	8690	6950	49,7	140	24.5 / 25.3	4,4	1290	850
PERUN SLIM 1.5ft 4000/840	-25 / 45	3850	3080	23,3	132	20.2 / 21.1	5,3	1600	1050
PERUN SLIM 1.5ft 5500/840	-25 / 45	5340	4270	31,9	134	21.4 / 22.2	5,3	1600	1050
PERUN SLIM 1.5ft 8000/840	-25 / 40	7780	6220	44,3	140	22.7 / 23.5	5,3	1600	1050
PERUN SLIM 1.5ft 11000/840	-25 / 40	12310	9850	71,1	139	24.3 / 25.1	5,4	1600	1050

86720 PERUN SLIM 1.2ft 1600/840 = suitable replacement for T8 fl. tube light fitting PERUN 118 - 1 x 18 W

86750 PERUN SLIM 1.4ft 3200/840 = suitable replacement for T8 fl. tube light fitting PERUN 136 - 1 x 36 W

86770 PERUN SLIM 1.4ft 6400/840 = suitable replacement for T8 fl. tube light fitting PERUN 236 - 2 x 36 W

86790 PERUN SLIM 1.5ft 4000/840 = suitable replacement for T8 fl. tube light fitting PERUN 158 - 1 x 58 W

86810 PERUN SLIM 1.5ft 8000/840 = suitable replacement for T8 fl. tube light fitting PERUN 258 - 2 x 58 W

PERUN SLIM

Non-dimmable driver, diffuser: polished thermally toughened safety glass

Code	Type	1F	3F	M3hAt	3F M3hAt
86720	PERUN SLIM 1.2ft 1600/840	86721	86723	x	x
86730	PERUN SLIM 1.2ft 2200/840	86731	86733	x	x
86750	PERUN SLIM 1.4ft 3200/840	86751	86753	86755	86757
86760	PERUN SLIM 1.4ft 4400/840	86761	86763	86765	86767
86770	PERUN SLIM 1.4ft 6400/840	86771	86773	x	x
86924	PERUN SLIM 1.4ft 8800/840	86926	86928	x	x
86790	PERUN SLIM 1.5ft 4000/840	86791	86793	86795	86797
86800	PERUN SLIM 1.5ft 5500/840	86801	86803	86805	86807
86810	PERUN SLIM 1.5ft 8000/840	86811	86813	x	x
86925	PERUN SLIM 1.5ft 11000/840	86927	86929	x	x

PERUN SLIM DALI

Digital dimmable driver DALI, diffuser: polished thermally toughened safety glass

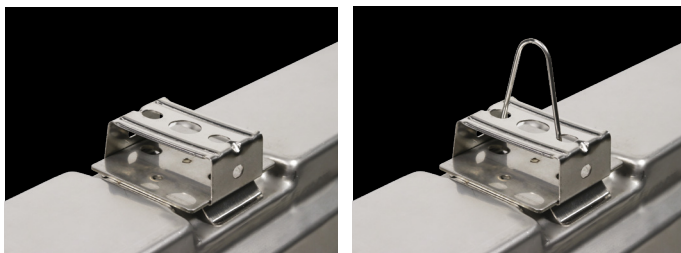
Code	Type	1F	3F	M3hAt	3F M3hAt
86830	PERUN SLIM 1.2ft 1600/840 DALI	86831	x	x	x
86840	PERUN SLIM 1.2ft 2200/840 DALI	86841	x	x	x
86860	PERUN SLIM 1.4ft 3200/840 DALI	86861	86863	86865	86867
86870	PERUN SLIM 1.4ft 4400/840 DALI	86871	86873	86875	86877
86880	PERUN SLIM 1.4ft 6400/840 DALI	86881	86883	x	x
86930	PERUN SLIM 1.4ft 8800/840 DALI	86931	86933	x	x
86900	PERUN SLIM 1.5ft 4000/840 DALI	86901	86903	86905	86907
86910	PERUN SLIM 1.5ft 5500/840 DALI	86911	86913	86915	86917
86920	PERUN SLIM 1.5ft 8000/840 DALI	86921	86923	x	x
86931	PERUN SLIM 1.5ft 11000/840 DALI	86933	86935	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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



PERUN SLIM 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 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

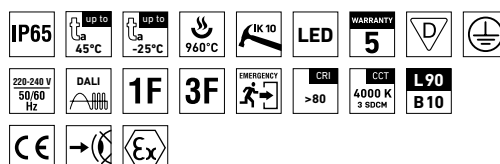
The basic requirements for safety and health protection are secured by the verification of conformity with the standards according to EN 60079-15, EN 60079-0 and EN 60079-31.

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 **ta = 45°C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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 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
- Certification: TÜV CY 23 ATEX 0206818 X

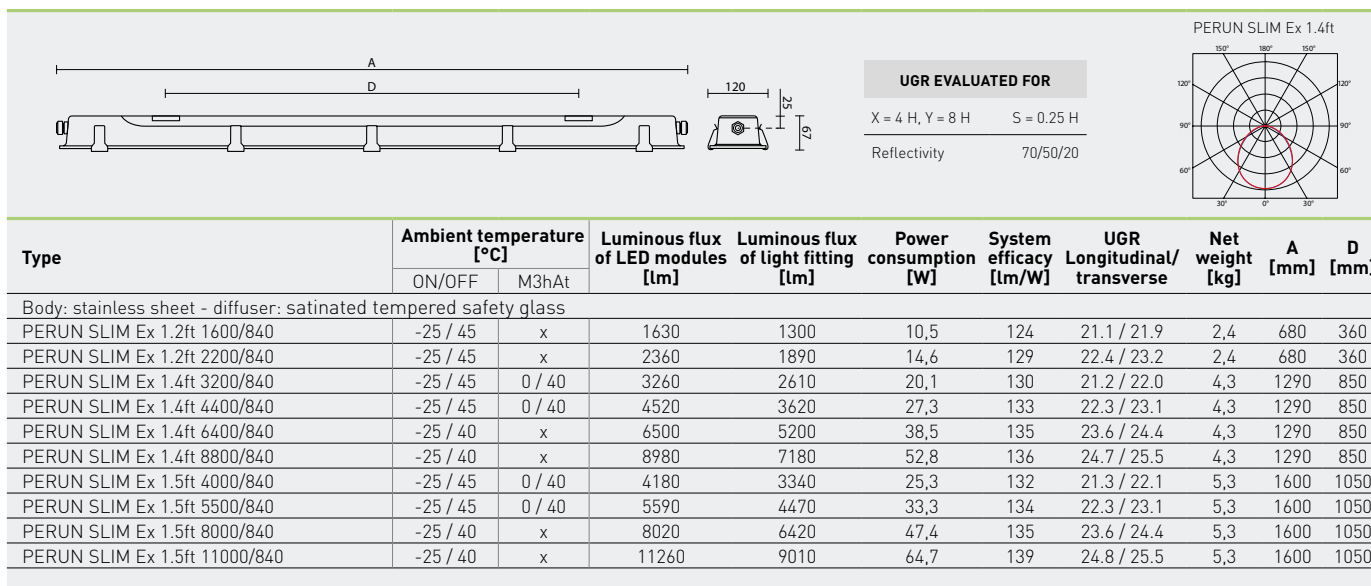


PERUN SLIM Ex



TECHNICAL DESCRIPTION

- Light fitting protection: IP65
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-40^\circ\text{C}$ with a back-up power supply M3hAt
- 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
- Lifetime: 100,000 hours / L80B10
- 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



PERUN SLIM Ex

Non-dimmable driver, diffuser: polished thermally toughened safety glass

Code	Type	1F	3F	M3hAt	3F M3hAt
103435	PERUN SLIM Ex 1.2ft 1600/840	103445	103455	x	x
103436	PERUN SLIM Ex 1.2ft 2200/840	103446	103456	x	x
103437	PERUN SLIM Ex 1.4ft 3200/840	103447	103457	109852	109856
103438	PERUN SLIM Ex 1.4ft 4400/840	103448	103458	109853	109857
103439	PERUN SLIM Ex 1.4ft 6400/840	103449	103459	x	x
103440	PERUN SLIM Ex 1.4ft 8800/840	103450	103460	x	x
103441	PERUN SLIM Ex 1.5ft 4000/840	103451	103461	109854	109858
103442	PERUN SLIM Ex 1.5ft 5500/840	103452	103462	109855	109859
103443	PERUN SLIM Ex 1.5ft 8000/840	103453	103463	x	x
103444	PERUN SLIM Ex 1.5ft 11000/840	103454	103464	x	x

PERUN SLIM Ex DALI

Digital dimmable driver DALI, diffuser: polished thermally toughened safety glass

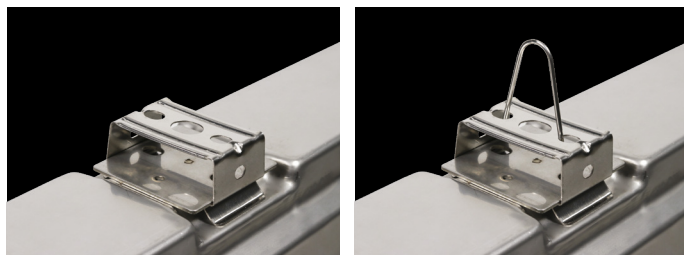
Code	Type	1F	3F	M3hAt	3F M3hAt
103483	PERUN SLIM Ex 1.4ft 3200/840 DALI	103493	103503	109860	109864
103484	PERUN SLIM Ex 1.4ft 4400/840 DALI	103494	103504	109861	109865
103485	PERUN SLIM Ex 1.4ft 6400/840 DALI	103495	103505	x	x
103486	PERUN SLIM Ex 1.4ft 8800/840 DALI	103496	103506	x	x
103487	PERUN SLIM Ex 1.5ft 4000/840 DALI	103497	103507	109862	109866
103488	PERUN SLIM Ex 1.5ft 5500/840 DALI	103498	103508	109863	109867
103489	PERUN SLIM Ex 1.5ft 8000/840 DALI	103499	103509	x	x
103490	PERUN SLIM Ex 1.5ft 11000/840 DALI	103500	103510	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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
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IP66

ALUMAX LED
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ALUMAX LED FOR
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IP66

ALUMAX LED MAX
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ALUMAX LED
ACCESSORIES
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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.

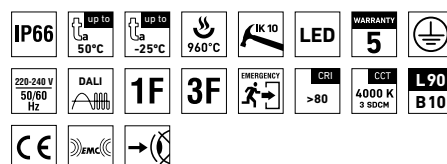
Characteristics of the used tempered glass and its shattering power are controlled by the ČSN EN 12150-1 standard.

ADVANTAGES

- Light fitting protection **IP66**
- Maximum ambient temperature up to **t_a = 50 °C**
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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



ALUMAX LED



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 50^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-40^\circ\text{C}$ with a back-up power supply M3hAt
- 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
- Lifetime: 50,000 hours / L90B10
- Lifetime: 100,000 hours / L80B10
- 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 M18 x 1,5
- 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 1600/840	50	1630	1240	10,5	118	21.8 / 23.3	2,2	624	534
ALUMAX LED 1.2ft 2200/840	45	2360	1790	14,6	123	23.1 / 24.5	2,2	624	534
ALUMAX LED 1.4ft 3200/840	50	3260	2480	20,1	123	21.7 / 23.1	4,2	1224	1134
ALUMAX LED 1.4ft 4400/840	45	4520	3440	27,3	126	22.8 / 24.3	4,2	1224	1134
ALUMAX LED 1.5ft 4000/840	50	4180	3180	25,3	126	21.7 / 23.2	5,0	1524	1434
ALUMAX LED 1.5ft 5500/840	45	5590	4250	33,3	128	22.7 / 24.2	5,0	1524	1434
ALUMAX LED 2.2ft 3200/840	50	3250	2440	20,1	121	23.7 / 25.7	2,4	624	534
ALUMAX LED 2.2ft 4400/840	45	4680	3510	28,3	124	25.0 / 27.0	2,4	624	534
ALUMAX LED 2.4ft 6400/840	50	6520	4890	38,4	127	23.5 / 25.4	4,3	1224	1134
ALUMAX LED 2.4ft 8800/840	45	8980	6740	52,8	128	24.7 / 26.7	4,3	1224	1134
ALUMAX LED 2.5ft 8000/840	50	8330	6250	48,3	129	23.6 / 25.6	5,3	1524	1434
ALUMAX LED 2.5ft 11000/840	45	11260	8450	64,7	131	24.7 / 26.7	5,3	1524	1434

50450 ALUMAX LED 1.4ft 3200/840 = suitable replacement for ALUMAX 136 E - 1 x 36 W
 50480 ALUMAX LED 1.5ft 4000/840 = suitable replacement for ALUMAX 158 E - 1 x 58 W
 50550 ALUMAX LED 2.4ft 6400/840 = suitable replacement for ALUMAX 236 E - 2 x 36 W
 50580 ALUMAX LED 2.5ft 8000/840 = suitable replacement for ALUMAX 258 E - 2 x 58 W

ALUMAX LED

Diffuser made of tempered glass, stainless clips

Code	Type	1F	3F	M3hAt	3F M3hAt
50420	ALUMAX LED 1.2ft 1600/840	x	x	x	x
50430	ALUMAX LED 1.2ft 2200/840	x	x	x	x
50450	ALUMAX LED 1.4ft 3200/840	50451	50453	109900	109903
50460	ALUMAX LED 1.4ft 4400/840	50461	50463	109896	109899
50480	ALUMAX LED 1.5ft 4000/840	50481	50483	109888	109891
50490	ALUMAX LED 1.5ft 5500/840	50491	50493	109884	109887
50520	ALUMAX LED 2.2ft 3200/840	x	x	x	x
50530	ALUMAX LED 2.2ft 4400/840	x	x	x	x
50550	ALUMAX LED 2.4ft 6400/840	50551	50553	109876	109879
50560	ALUMAX LED 2.4ft 8800/840	50561	50563	x	x
50580	ALUMAX LED 2.5ft 8000/840	50581	50583	109868	109871
50590	ALUMAX LED 2.5ft 11000/840	50591	50593	x	x

ALUMAX LED DALI

Digital dimmable driver DALI, diffuser made of tempered glass, stainless clips

Code	Type	3F	M3hAt	3F M3hAt
50620	ALUMAX LED 1.2ft 1600/840 DALI	x	x	x
50630	ALUMAX LED 1.2ft 2200/840 DALI	x	x	x
50650	ALUMAX LED 1.4ft 3200/840 DALI	50653	109901	109902
50660	ALUMAX LED 1.4ft 4400/840 DALI	50663	109897	109898
50680	ALUMAX LED 1.5ft 4000/840 DALI	50683	109889	109890
50690	ALUMAX LED 1.5ft 5500/840 DALI	50693	109885	109886
50720	ALUMAX LED 2.2ft 3200/840 DALI	x	x	x
50730	ALUMAX LED 2.2ft 4400/840 DALI	x	x	x
50750	ALUMAX LED 2.4ft 6400/840 DALI	50753	109877	109878
50760	ALUMAX LED 2.4ft 8800/840 DALI	50763	x	x
50780	ALUMAX LED 2.5ft 8000/840 DALI	50783	109869	109870
50790	ALUMAX LED 2.5ft 11000/840 DALI	50793	x	x

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 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 M3hAt** - 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) 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



ALUMAX LED MAX



... for extreme temperatures -40°C to $+75^{\circ}\text{C}$.

USE

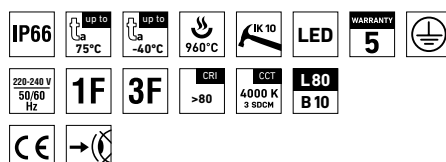
The light fitting is suitable for indoor and outdoor spaces with roof with extreme ambient temperatures from **-40°C to $+75^{\circ}\text{C}$** . The light fitting is destined mainly for heating stations, metallurgical lines, glass-works, as well as for freezers, cooling plants and other premises without 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 **$t_a = -40^{\circ}\text{C}$**
- Maximum ambient temperature up to **$t_a = 75^{\circ}\text{C}$**
- 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
- 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

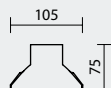
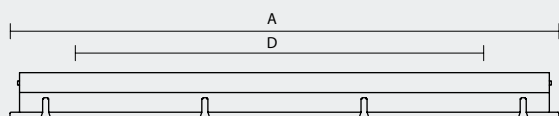


ALUMAX LED MAX



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 \times 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 \times 1,5
- Installation: package contains stainless sheet suspension brackets and FeZn sliding hangers
- Electric equipment: LED modules, current driver

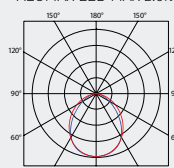


UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

ALUMAX LED MAX 2.5ft



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	DALI	DALI 3F
79730	ALUMAX LED 1.5ft MAX 4000/840	79731	79733	79735	79736
79700	ALUMAX LED 1.5ft MAX 5500/840	79701	79703	79705	79706
79740	ALUMAX LED 2.4ft MAX 6400/840	79741	79743	79745	79746
79710	ALUMAX LED 2.4ft MAX 8800/840	79711	79713	79715	79716
79750	ALUMAX LED 2.5ft MAX 8000/840	79751	79753	79755	79756
79720	ALUMAX LED 2.5ft MAX 11000/840	79721	79723	79725	79726

Example of type marking: 79713 = ALUMAX LED MAX 2.4ft 8800/840 3F

LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
3F - 3-phase 5 core through-wiring in the luminaire

- DALI** - version with digital dimmable driver DALI
DALI 3F - 3-phase 7 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) 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

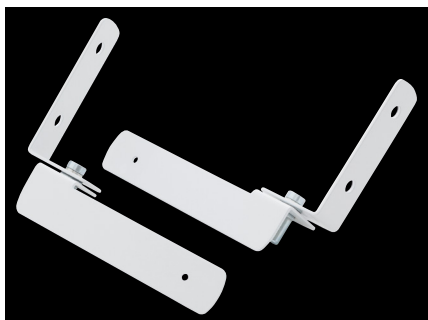
**LIGHT FITTING DETAILED VIEW**

ALUMAX LED MAX

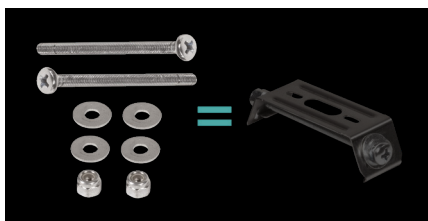


BZ – side hanger

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

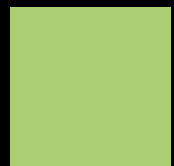
Code	Type	Description	Weight [kg]
11553	G3 SET	a locking set for G3 stainless steel bracket (bolts, nuts, washers)	0,2



CANOPUS



INDUSTRIAL
METAL
FOR HIGH CEILINGS



CANOPUS – industrial metal LED light fitting

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CANOPUS
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CANOPUS NB
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CANOPUS NB TR
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IP65

CANOPUS HE
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CANOPUS HE
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IP65

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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.

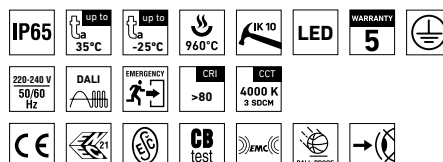
The light fitting is resistant to deformation, dust and splashing water.

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 **$t_a = 35^\circ\text{C}$**
- 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 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 × 1,5, without necessity of opening the light fitting
- Certification: ESC, ENEC, CB, BALL-PROOF

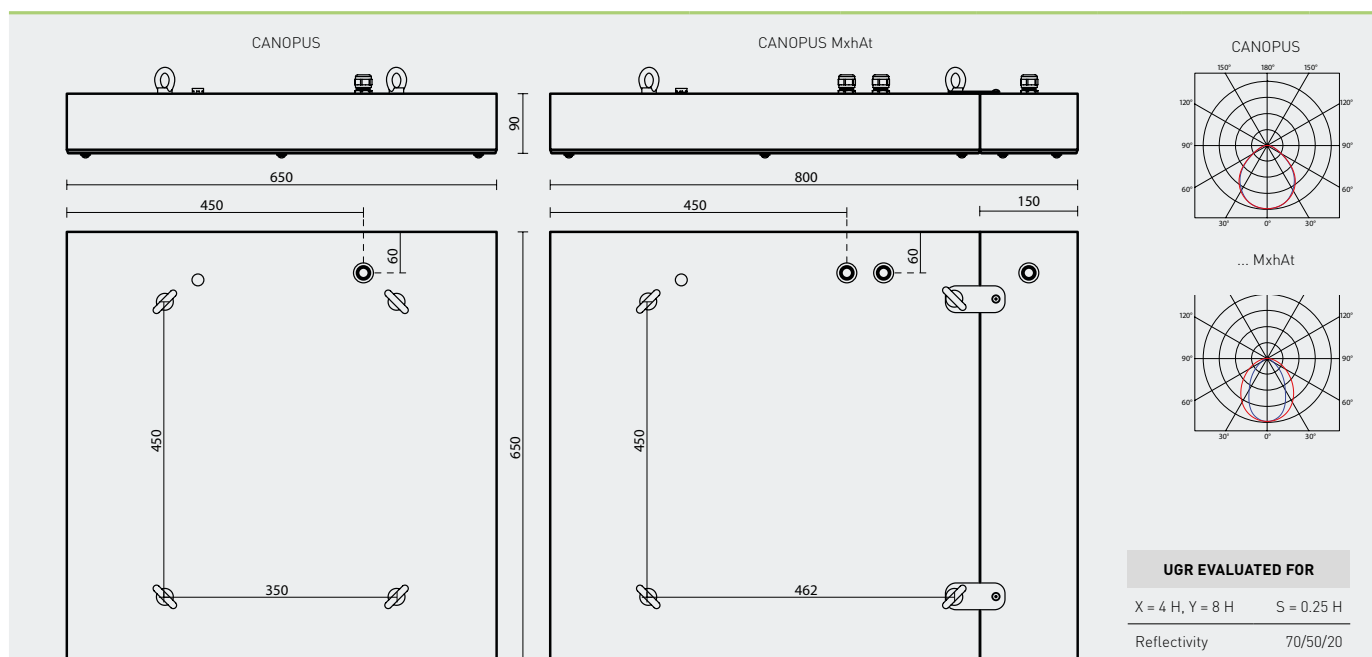


CANOPUS



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 M3hAt
- 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 / L90B50
- Diffuser: satinized tempered safety glass
- Possibility of delivery of the diffuser with a safety foil (SF)
- EM kit with battery autotesting for M3hAt
- Body: steel sheet, white colour (RAL 9003), or inox AISI 304 at request
- Ventilation plug: type BVPB-01 made of polyamide, size M12 \times 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	23130	18970	134,3	141	23.8 / 23.9	11,6
CANOPUS 26000/840	28870	23670	170,8	139	24.6 / 24.7	11,8
CANOPUS 30000/840	33000	27060	195,2	139	25.1 / 25.2	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					
M3hAt	3	440	1,5	LiFePO ₄	+4,4

CANOPUS

Code	Type	M3hAt	DALI	DALI M3hAt
74010	CANOPUS 22000/840	74013	74016	74018
74020	CANOPUS 26000/840	74023	74026	74028
74030	CANOPUS 30000/840	74033	74036	74038

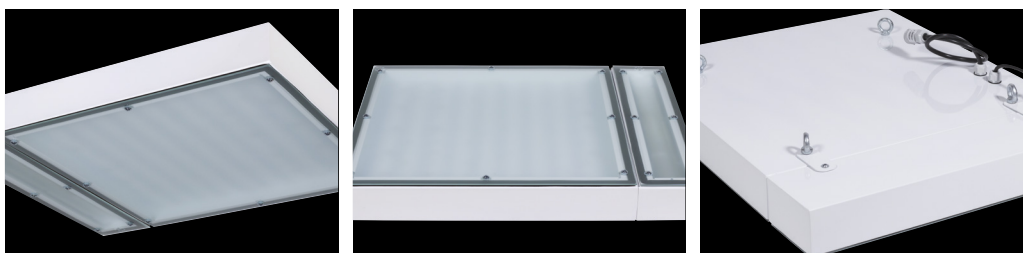
Example of type marking: 74036 = CANOPUS 30000/840 DALI

LEGEND

- DALI** – version with digital dimmable driver DALI (2 - 3 pcs)
M3hAt – emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting

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

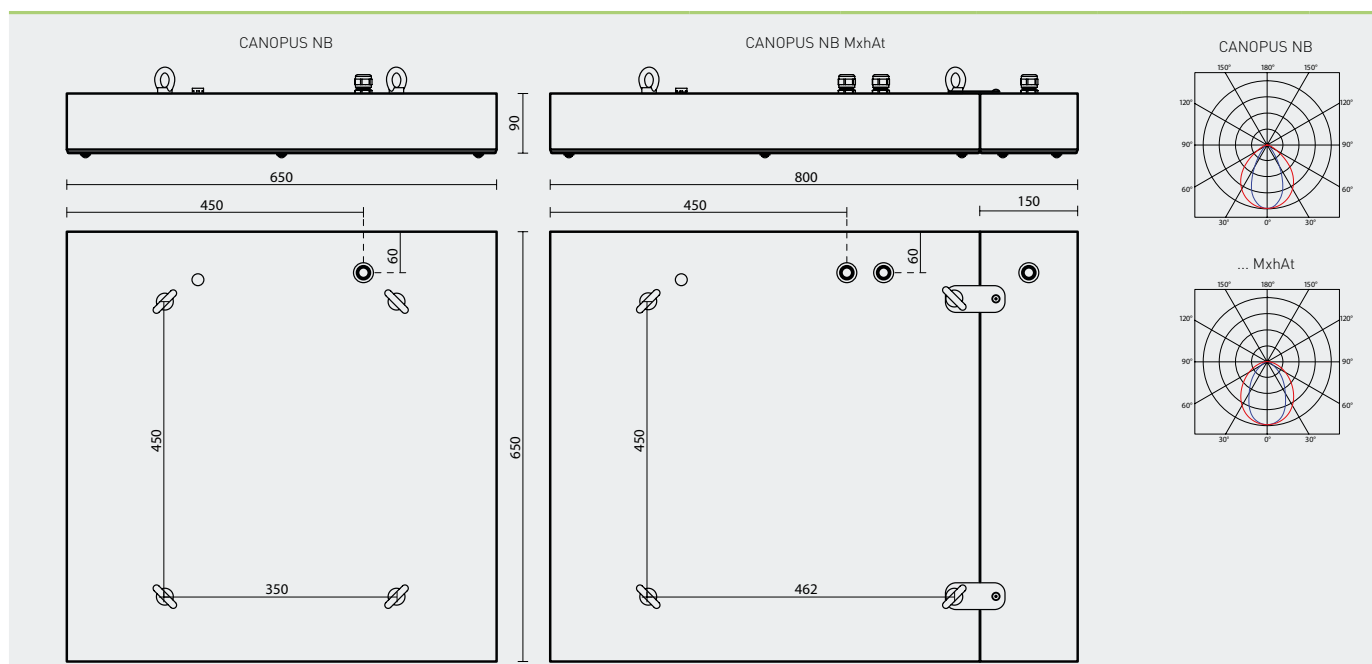
**LIGHT FITTING DETAILED VIEW****LIGHT FITTING DETAILED VIEW WITH AN EMERGENCY MODULE**

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 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 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 \times 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	23130	19200	134,3	143	18.3 / 23.6	12,3
CANOPUS NB 26000/840	28870	23960	170,8	140	19.1 / 24.4	12,5
CANOPUS NB 30000/840	33000	27390	195,2	140	19.6 / 24.9	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					
M3hAt	3	440	1,5	LiFePO ₄	+4,4

CANOPUS NB

Code	Type	M3hAt	DALI	DALI M3hAt
74110	CANOPUS NB 22000/840	74113	74116	74118
74120	CANOPUS NB 26000/840	74123	74126	74128
74130	CANOPUS NB 30000/840	74133	74136	74138

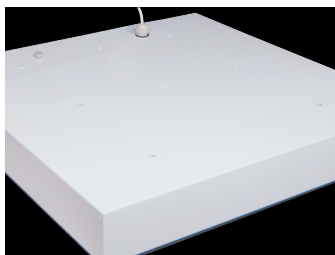
Example of type marking: 74136 = CANOPUS NB 30000/840 DALI

LEGEND

- DALI** – version with digital dimmable driver DALI (2 - 3 pcs)
M3hAt – emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting

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

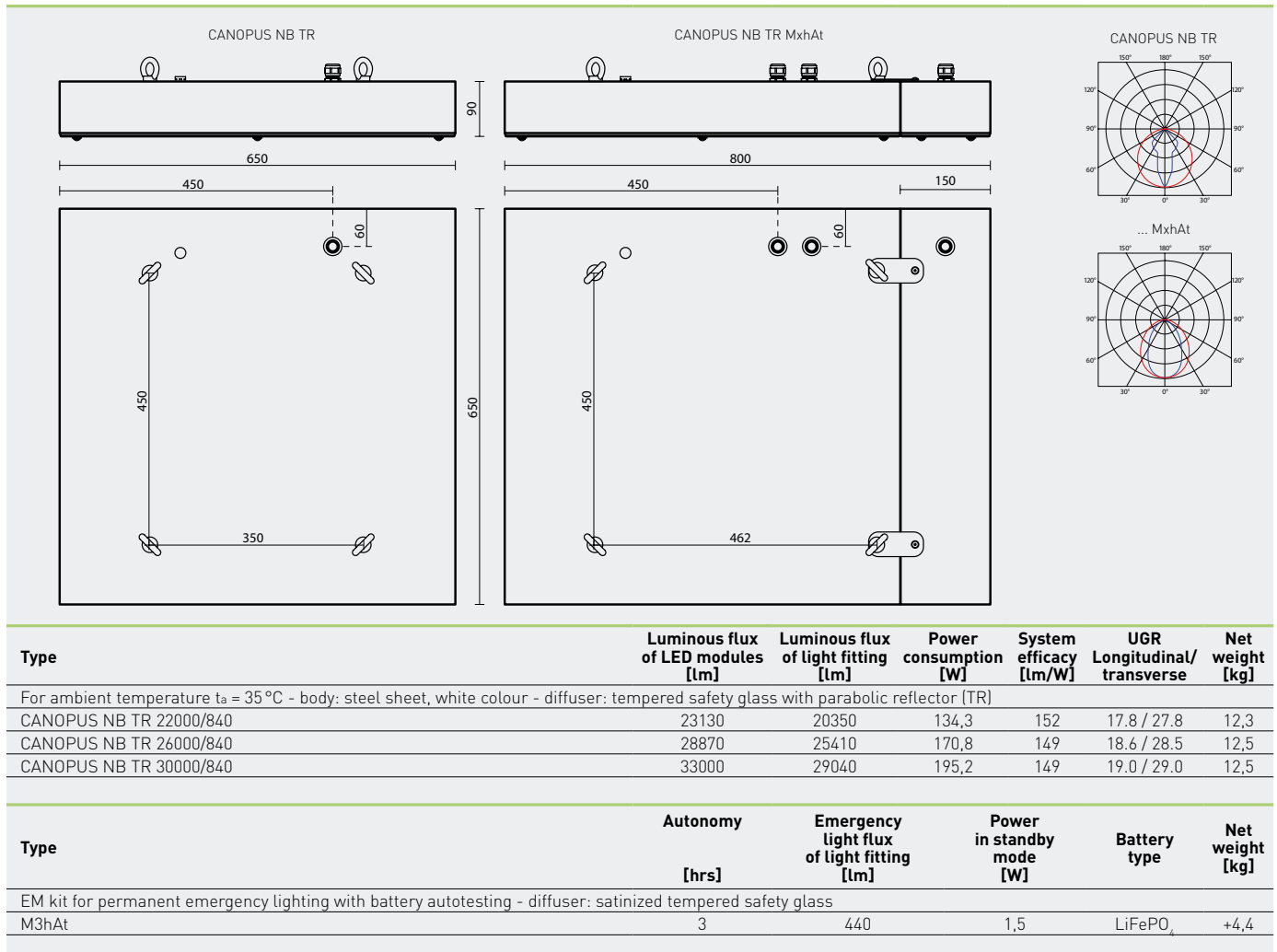
**LIGHT FITTING DETAILED VIEW****LIGHT FITTING DETAILED VIEW WITH AN EMERGENCY MODULE**

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 M3hAt
- Maximum system efficacy: 152 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 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 \times 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)



CANOPUS NB TR

Code	Type	M3hAt	DALI	DALI M3hAt
74210	CANOPUS NB TR 22000/840	74213	74216	74218
74220	CANOPUS NB TR 26000/840	74223	74226	74228
74230	CANOPUS NB TR 30000/840	74233	74236	74238

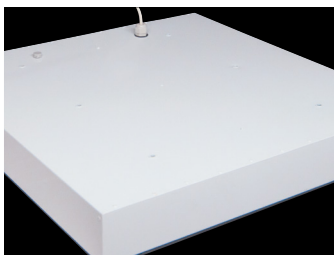
Example of type marking: 74236 = CANOPUS NB TR 30000/840 DALI

LEGEND

- DALI** – version with digital dimmable driver DALI (2 - 3 pcs)
M3hAt – emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting

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



157
lm/W



... 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.

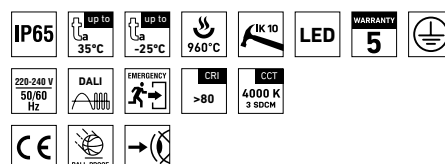
The light fitting is resistant to deformation, dust and splashing water.

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 **$t_a = 35^\circ\text{C}$**
- 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 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 × 1,5, without necessity of opening the light fitting
- **Chips with high sulphur resistance**
- Certification: BALL-PROOF

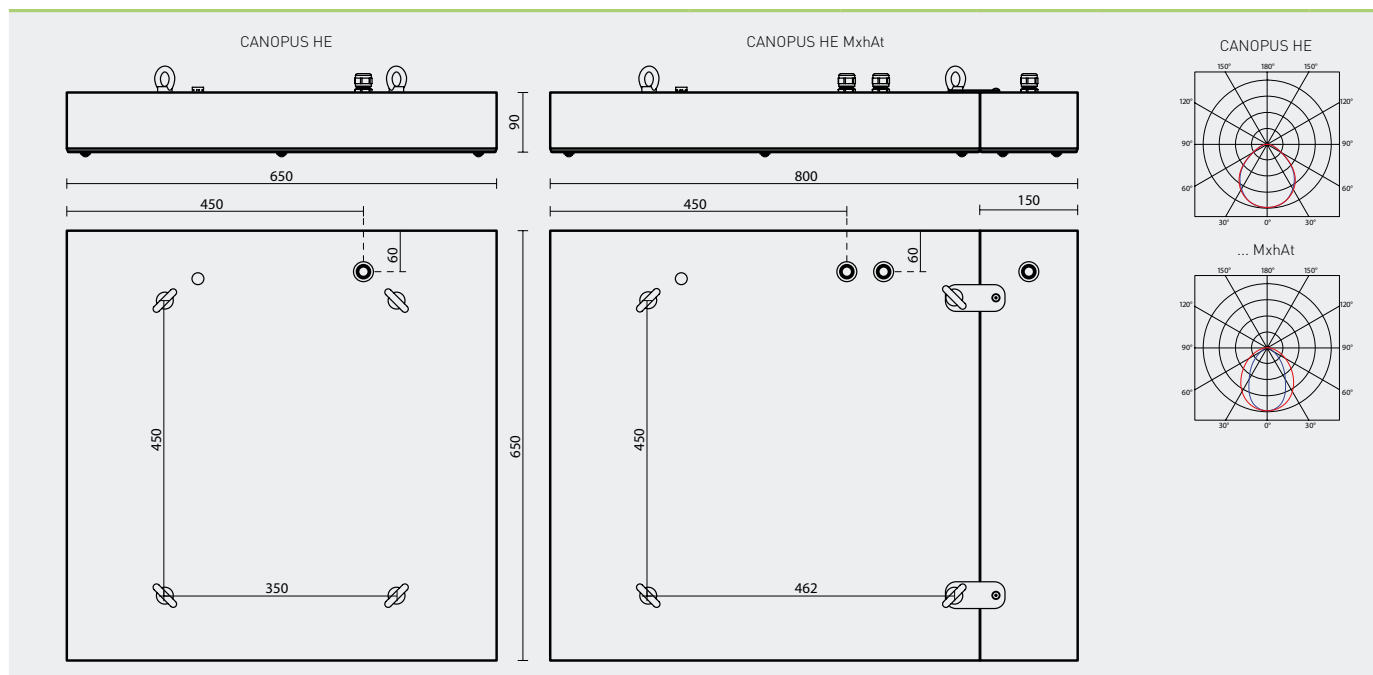


CANOPUS HE



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 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 M3hAt
- Body: steel sheet, white colour (RAL 9003), or inox AISI 304 at request
- Ventilation plug: type BVPB-01 made of polyamide, size M12 \times 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					
M3hAt	3	440	1,5	LiFePO ₄	+4,4

CANOPUS HE

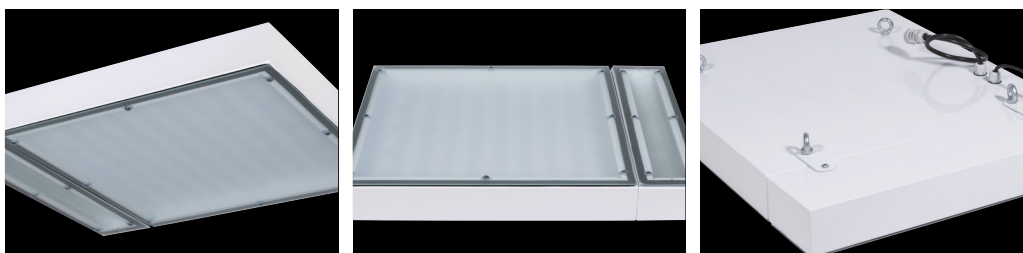
Code	Type	M3hAt	DALI	DALI M3hAt
74810	CANOPUS HE 22000/840	74812	74813	74815
74820	CANOPUS HE 26000/840	74822	74823	74825
74830	CANOPUS HE 30000/840	74832	74833	74835

LEGEND

- DALI** – version with digital dimmable driver DALI (2 - 3 pcs)
- M3hAt** – emergency back-up source with operating time of 3 hours (SA) for permanent illumination with battery autotesting

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

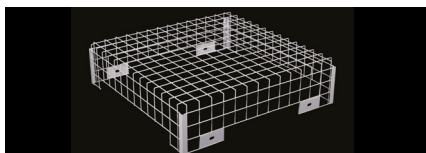
Serves to suspend the light fitting with the help of chains on a threaded rod or with the help of a lug on a hook.



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 protective grille	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

MAHROS

MAHROS

2

LANUS



INDUSTRIAL
ALUMINIUM
DUSTPROOF
WATERPROOF



LANUS – industrial metal LED light fitting

LANUS ROUND
page 282



IP66

LANUS ROUND
page 282

LANUS ROUND



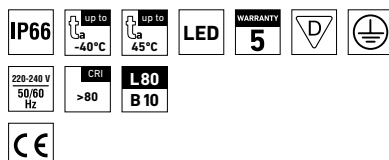
... aluminium, dustproof, waterproof round light fitting

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 **45°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
- Connection: a 0.4m 3-core 3x1mm² CYSY cable
- Insulation: class I

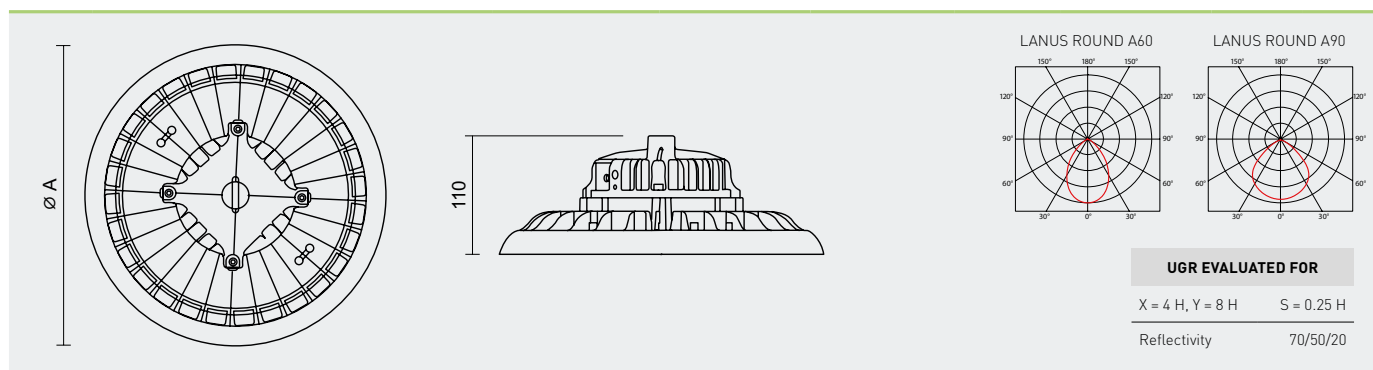


LANUS ROUND



TECHNICAL DESCRIPTION

- Light fitting protection **IP66**
- Ambient temperature from **-40°C to 45°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 = 45 °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



LINEA



INDOOR
PLASTIC
SURFACE-MOUNTED



LINEA – indoor plastic LED light fitting

LINEA
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IP54

LINEA
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LINEA SQUARE
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IP54

LINEA SQUARE
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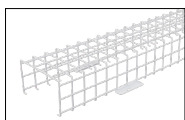
LINEA ROUND
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IP54

LINEA ROUND
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LINEA
ACCESSORIES
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LINEA
ACCESSORIES
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LINEA



BIM
ready

... indoor, surface-mounted, plastic, MultiLumen.

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.

Thanks to the **MultiLumen function**, the luminaire can be adjusted for changing lighting requirements without much effort.

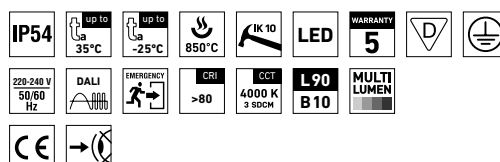
The Linea light fitting line can be used as a comprehensive solution for lighting of office buildings, schools, hospitals, libraries, as well as individual lighting of flat interiors, corridors, sanitary and welfare facilities.

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 45 % lower electricity consumption when compared to tubes T5
- In DALI version possibility of constant luminous flux for whole lifetime (CLO)

- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- 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

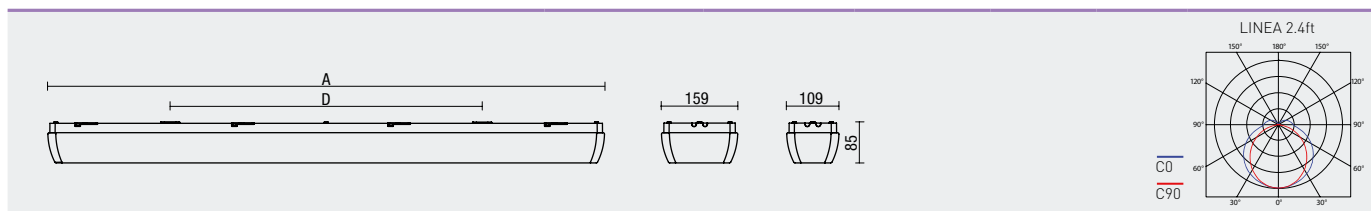


LINEA



TECHNICAL DESCRIPTION

- Light fitting protection: IP54
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ (version with emergency back-up source M3hAt)
- 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: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: white polycarbonate (PC), UV stable, impact-resistant
- Reflector: steel sheet, white colour (RAL 9003)
- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- 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]	Preselected Step 1 of MultiLumen function			Net weight [kg]	A [mm]	D [mm]
		Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]			
For ambient temperature $t_a = 35^\circ\text{C}$ - body: white polycarbonate - diffuser: translucent polycarbonate							
LINEA 1.4ft 3200/840 *	3260	2740	20,1	136	1,9	1160	650
LINEA 1.4ft 4400/840 *	4520	3800	27,3	139	1,9	1160	650
LINEA 2.4ft 6400/840 *	6520	5350	38,4	139	2,5	1160	650
LINEA 2.4ft 8800/840 *	8980	7360	52,8	139	2,5	1160	650

*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
LINEA 1.4ft 3200/840 ML	2370	17,3	137	2000	14,6	137	1620	11,7	138
LINEA 1.4ft 4400/840 ML	3290	23,3	141	2780	19,5	143	2250	15,8	142
LINEA 2.4ft 6400/840 ML	4630	32,9	141	3900	27,4	142	3170	22,0	144
LINEA 2.4ft 8800/840 ML	6390	44,9	142	5400	37,4	144	4380	30,1	146

LINEA

Code	Type
63150	LINEA 1.4ft 3200/840 ML
63160	LINEA 1.4ft 4400/840 ML
63250	LINEA 2.4ft 6400/840 ML
63260	LINEA 2.4ft 8800/840 ML

Non-dimmable driver

M3hAt	SNS
110129	110115
110130	110116
109909	63251
109910	63261

LINEA DALI

Code	Type
63153	LINEA 1.4ft 3200/840 DALI
63163	LINEA 1.4ft 4400/840 DALI
63253	LINEA 2.4ft 6400/840 DALI
63263	LINEA 2.4ft 8800/840 DALI

Digital dimmable driver DALI

DALI M3hAt	COR
110131	110117
110132	110118
109912	63258
109913	63268

LEGEND

- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- DALI** - version with digital dimmable driver DALI
- SNS** - version with microwave motion sensor
- COR** - version with digital dimmable driver DALI and set CORRIDOR function

LIGHT FITTING ATTACHMENT AND ITS DETAILED VIEW

Directly to a ceiling or a wall with the use of screws



LINEA SQUARE



BIM
ready

... interior square, plastic, surface-mounting.

USE

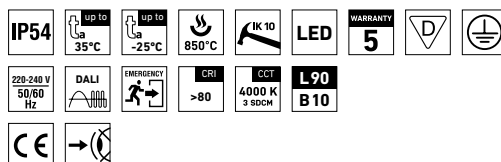
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The Linea light fitting line can be used as a comprehensive solution for lighting of office buildings, schools, hospitals, libraries, as well as individual lighting of flat interiors, corridors, sanitary and welfare facilities.

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

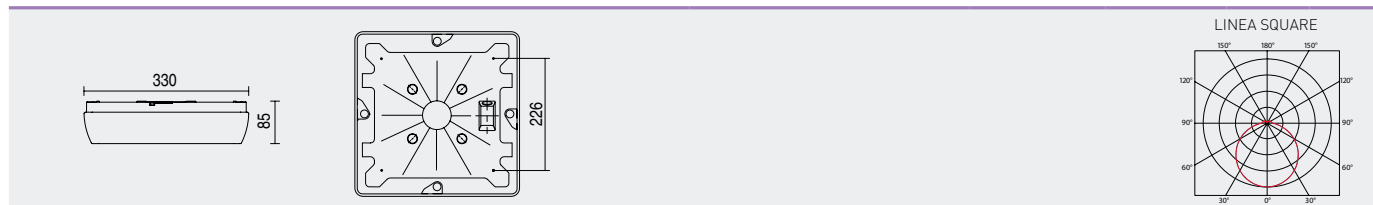


LINEA SQUARE



TECHNICAL DESCRIPTION

- Light fitting protection: IP54
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0\text{-}35^\circ\text{C}$ (version with emergency back-up source M3hAt)
- 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]	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	1,4
LINEA SQUARE 1900/840	35	1930	1540	11,4	135	1,4
LINEA SQUARE 2200/840	35	2270	1820	13,7	133	1,4
LINEA SQUARE 2500/840	35	2540	2030	15,7	129	1,4
LINEA SQUARE 3600/840	30	3560	2850	23,1	123	1,5

63560 LINEA SQUARE 3600/840 = suitable replacement for compact fluorescent lamps 2x26 W

LINEA SQUARE

Diffuser made of translucent polycarbonate

Code	Type	M3hAt	DALI	DALI M3hAt	SNS	SNS M3hAt	COR	COR M3hAt
63348	LINEA SQUARE 1550/840	109914	x	x	63352	109923	x	x
63349	LINEA SQUARE 1900/840	109915	63374	109919	63353	109924	63377	109928
63350	LINEA SQUARE 2200/840	109916	63375	109920	63354	109925	63378	109929
63351	LINEA SQUARE 2500/840	109917	63376	109921	63355	109926	63379	109930
63560	LINEA SQUARE 3600/840	109918	63563	109922	63561	109927	63380	109931

LEGEND

- DALI** – version with digital dimmable driver DALI
- COR** – version with digital dimmable driver DALI and set CORRIDOR function
- SNS** – microwave motion sensor
- M3hAt** – emergency back-up source with operating time of 3 hours [SA] for both permanent and emergency illumination with autotest

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.

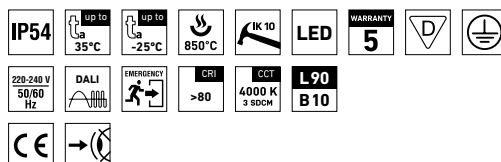
The Linea light fitting line can be used as a comprehensive solution for lighting of office buildings, schools, hospitals, libraries, as well as individual lighting of flat interiors, corridors, sanitary and welfare facilities.

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

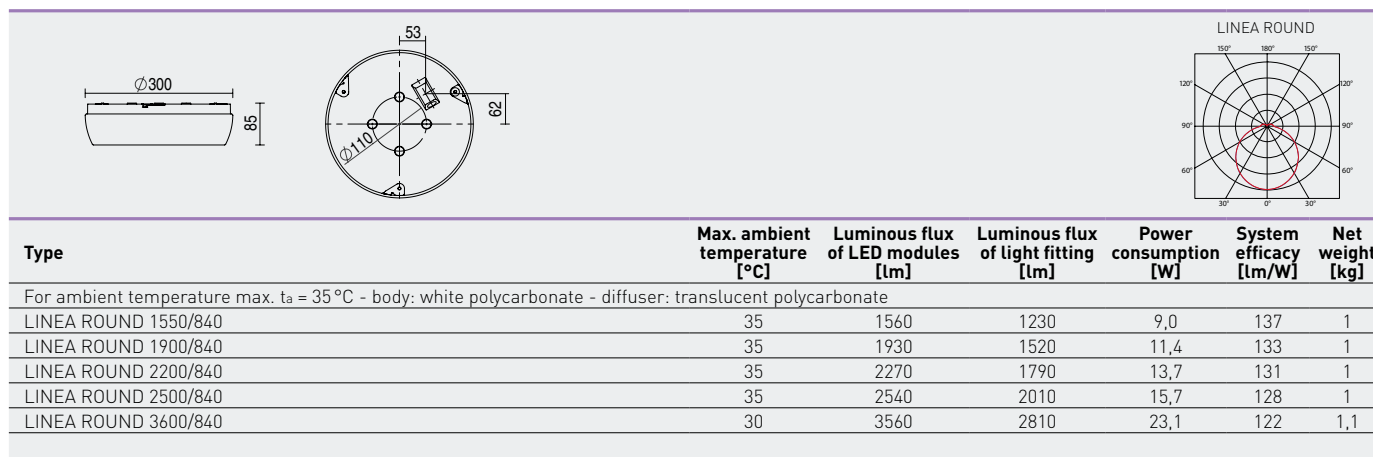


LINEA ROUND



TECHNICAL DESCRIPTION

- Light fitting protection: IP54
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ (version with emergency back-up source M3hAt)
- 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



63640 LINEA ROUND 3600/840 = suitable replacement for compact fluorescent lamps 2 x 26 W

LINEA ROUND

Diffuser made of translucent polycarbonate

Code	Type	M3hAt	DALI	DALI M3hAt	SNS	SNS M3hAt	COR	COR M3hAt
63301	LINEA ROUND 1550/840	109932	x	x	63305	109941	x	x
63302	LINEA ROUND 1900/840	109933	63326	109937	63306	109942	63329	109946
63303	LINEA ROUND 2200/840	109934	63327	109938	63307	109943	63330	109947
63304	LINEA ROUND 2500/840	109935	63328	109939	63308	109944	63331	109948
63640	LINEA ROUND 3600/840	109936	63663	109940	63641	109945	63332	109949

LEGEND

- DALI** – version with digital dimmable driver DALI
- COR** – version with digital dimmable driver DALI and set corridor function
- SNS** – microwave motion sensor
- M3hAt** – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination with autotest

LIGHT FITTING ATTACHMENT AND ITS DETAILED VIEW

Directly to a ceiling or a wall with the use of screws

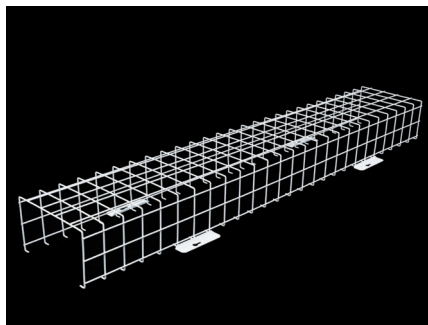


LINEA ROUND



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 x 220 x 130 mm)	1,7



LUXOR LED



INDOOR
METAL
CEILING-MOUNTED
RASTER



LUXOR LED – indoor metal LED light fitting

LUXOR LED
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LUXOR LED
page 296

IP40

LUXOR LED
ACCESSORIES
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LUXOR LED
ACCESSORIES
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LUXOR LED



... indoor metal, with low UGR.

USE

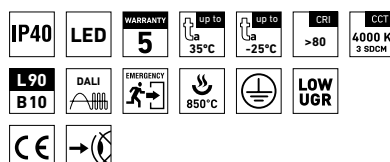
LUXOR LED is the perfect solution for office, education, halls, hospitals and shop & retail. Various sizes and three mounting methods are available.

It is the luminaire with highly specular parabolic louvre of glare-free effects for light distribution without glare according to EN 12464-1 with **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 **IP40**
- 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: IP40
- Maximum ambient temperature: $t_a = 35\text{ }^\circ\text{C}$,
Maximum ambient temperature: $t_a = 0\text{-}35\text{ }^\circ\text{C}$
version with emergency back-up source M3hAt
- Maximum system efficacy: 110 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
- Optical system: shiny parabolic louvre, **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 $t_a = 35\text{ }^\circ\text{C}$ - body: steel sheet, white colour - diffuser shiny parabolical grid								
LUXOR LED 1.2ft 1600/840	1630	1040	10,5	99	12.7 / 15.7	2,7	664	500
LUXOR LED 1.4ft 3200/840	3260	2090	20,1	104	12.8 / 15.8	4,4	1224	1030
LUXOR LED 1.5ft 4000/840	4180	2680	25,3	106	12.9 / 15.9	5,2	1504	1310
LUXOR LED 2.2ft 3200/840	3250	2080	20,1	103	12.9 / 15.8	3,3	664	500
LUXOR LED 2.4ft 6400/840	6520	4170	38,4	109	13.0 / 16.0	5,5	1224	1030
LUXOR LED 2.5ft 8000/840	8330	5330	48,3	110	13.1 / 16.1	6,8	1504	1310
LUXOR LED SQUARE 6400/840	6520	4170	38,4	109	13.7 / 15.4	6,0	595	500

LUXOR LED

Code	Type
102249	LUXOR LED 1.2ft 1600/840
102250	LUXOR LED 1.4ft 3200/840
102251	LUXOR LED 1.5ft 4000/840
102252	LUXOR LED 2.2ft 3200/840
102253	LUXOR LED 2.4ft 6400/840
102254	LUXOR LED 2.5ft 8000/840
102255	LUXOR LED SQUARE 6400/840

body lacquered steel sheet - white colour

M3hAt	DALI	DALI M3hAt
109950	102295	109956
109951	102296	109957
109952	102297	109958
109953	102298	109959
109954	102299	109960
109955	102300	109961
109974	102301	109975

LUXOR LED s

body lacquered steel sheet - silver colour (s)

Code	Type	M3hAt	DALI	DALI M3hAt
102316	LUXOR LED 1.2ft 1600/840 s	109962	102337	109968
102317	LUXOR LED 1.4ft 3200/840 s	109963	102338	109969
102318	LUXOR LED 1.5ft 4000/840 s	109964	102339	109970
102319	LUXOR LED 2.2ft 3200/840 s	109965	102340	109971
102320	LUXOR LED 2.4ft 6400/840 s	109966	102341	109972
102321	LUXOR LED 2.5ft 8000/840 s	109967	102342	109973
102322	LUXOR LED SQUARE 6400/840 s	109976	102343	109977

LEGEND

- s** – silver colour RAL 9006
DALI – version with electronic and digitally dimmed ballast module operated via DALI protocol
M3hAt – emergency back-up source with operating time of 3 hour (SA) for both permanent and emergency illumination with autotest

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

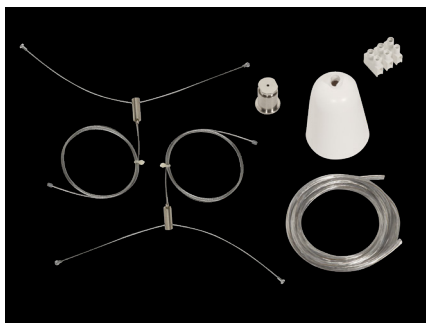
LUXOR LED



LUXOR LED SQUARE



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 302



IP20

SB LED
page 302

SB LED



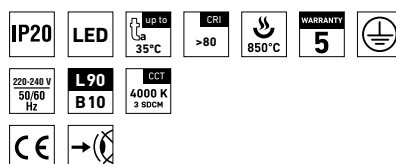
... indoor.

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

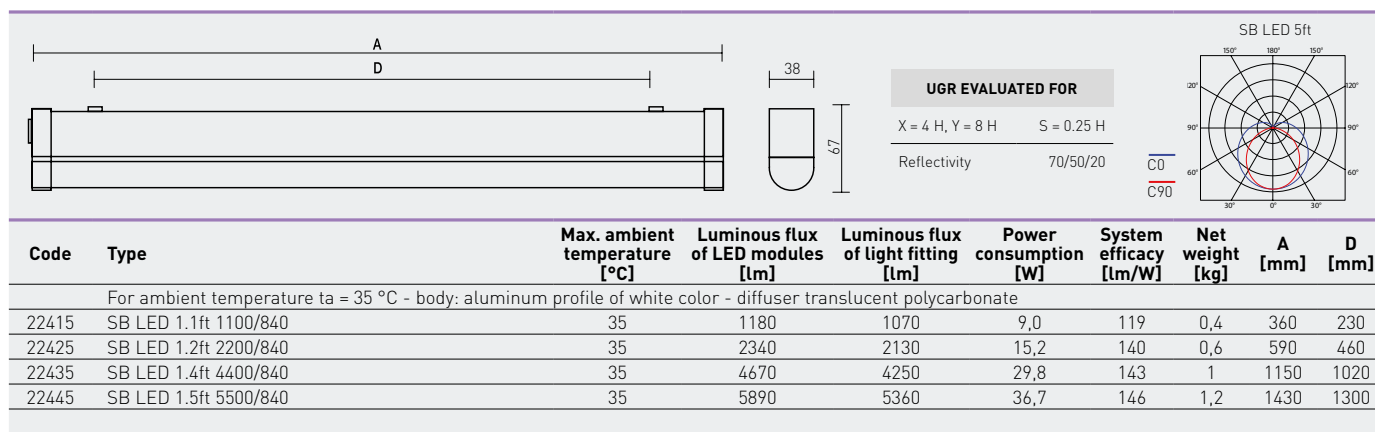


SB LED



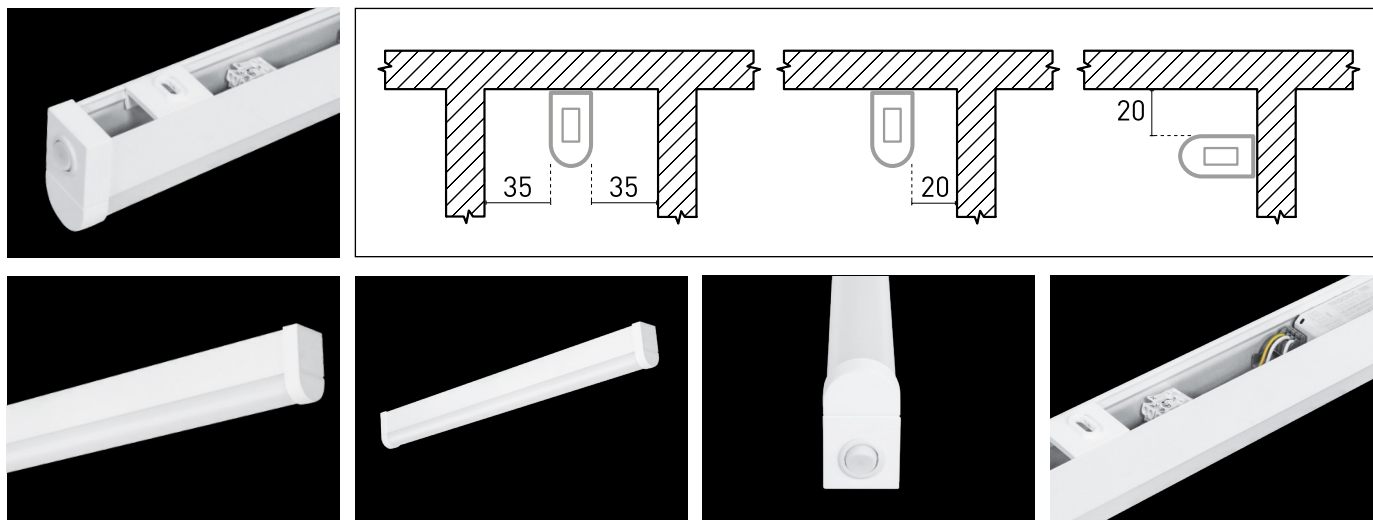
TECHNICAL DESCRIPTION

- Light fitting protection: IP20
- Maximum ambient temperature up to $t_a = 35\text{ °C}$
- 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)



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 306



IP54

LYRA
page 306

LYRA



... fashionable for every interior.

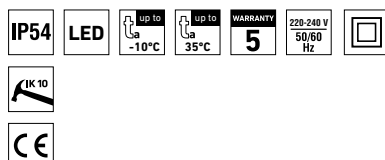
USE

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 t_a -10 to 35 °C
- Lifetime: 50 000 hours / L80B50
- High mechanical resistance: IK10

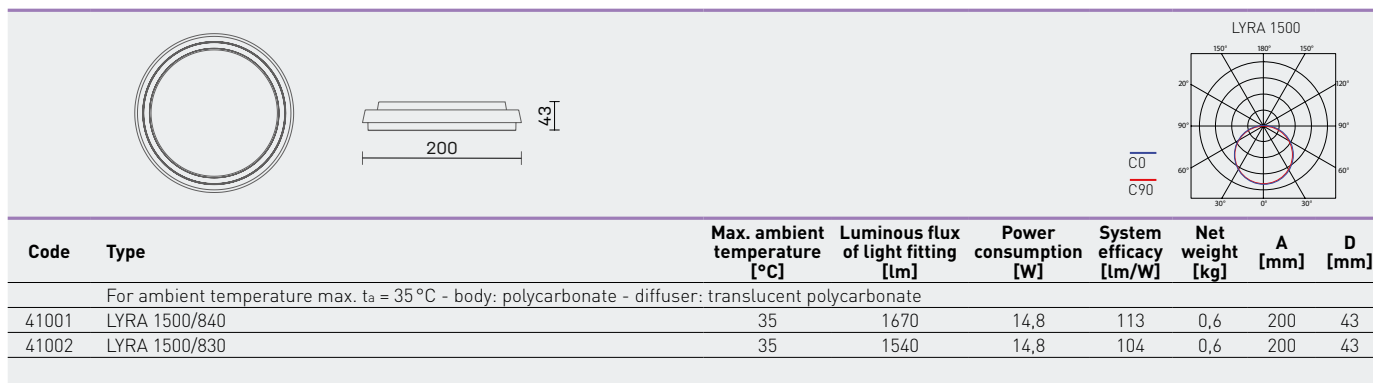


LYRA



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%



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 310



IP44

BELTR LED
page 310

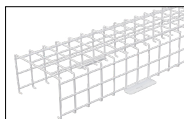
BELTR LED TUBE
page 313



IP40

BELTR LED TUBE
page 313

BELTR LED
ACCESSORIES
page 316



BELTR LED
ACCESSORIES
page 316

BELTR LED



... indoor, plastic, surface-mounted, batten, MultiLumen.

USE

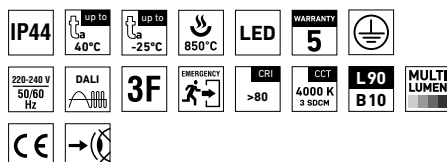
The light fitting is suitable for offices, hallways, school interiors, libraries, lecture rooms, sanitary rooms, hospitals and passenger terminals.

Thanks to the MultiLumen function, the luminaire can be adjusted for changing lighting requirements without much effort.

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
- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- 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

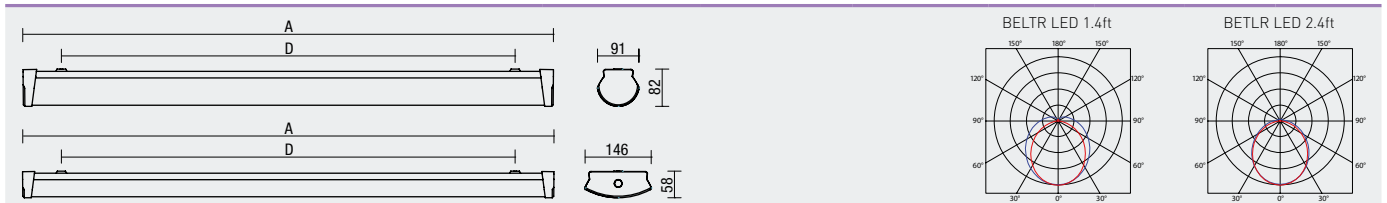


BELTR LED



TECHNICAL DESCRIPTION

- Light fitting protection: IP44
- Maximum ambient temperature: $t_a = 40\text{ }^\circ\text{C}$, Maximum ambient temperature: $t_a = 0\text{-}40\text{ }^\circ\text{C}$ (version with emergency back-up source 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 / L90B10
- Diffuser: translucent polycarbonate (PC), UV stable, impact-resistant
- Body: steel sheet, white colour (RAL 9003)
- **MultiLumen (ML)**: luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- 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]	Preselected Step 1 of MultiLumen function			Net weight [kg]	A [mm]	D [mm]
		Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]			
For ambient temperature $t_a = 40\text{ }^\circ\text{C}$ - body: steel sheet, white colour - diffuser: translucent polycarbonate							
BELTR LED 1.2ft 1600/840	1630	1320	10,5	126	0,8	610	500
BELTR LED 1.4ft 3200/840	3260	2640	20,1	131	1,4	1170	1000
BELTR LED 1.5ft 4000/840	4180	3390	25,3	134	1,8	1450	1000
BELTR LED 2.2ft 3200/840 *	3250	2630	20,1	131	1,3	610	500
BELTR LED 2.4ft 6400/840 *	6520	5280	38,4	138	2,3	1170	1000
BELTR LED 2.5ft 8000/840 *	8330	6750	48,3	140	2,9	1450	1000

*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
BELTR LED 2.2ft 3200/840 ML	2280	17,3	132	1930	14,5	133	1560	12,3	127
BELTR LED 2.4ft 6400/840 ML	4580	32,9	139	3860	27,4	141	3130	22,0	142
BELTR LED 2.5ft 8000/840 ML	5850	41,5	141	4950	34,6	143	4000	27,9	143

BELTR LED

Kód	Typ	3F	M3hAt	3F M3hAt
106917	BELTR LED 1.2ft 1600/840	x	x	x
106919	BELTR LED 1.4ft 3200/840	x	110105	x
106921	BELTR LED 1.5ft 4000/840	x	110106	x
106923	BELTR LED 2.2ft 3200/840 ML	106929	x	x
106925	BELTR LED 2.4ft 6400/840 ML	106931	110107	110072
106927	BELTR LED 2.5ft 8000/840 ML	106933	110108	110073

BELTR LED DALI

Digitally dimmable DALI driver

Code	Typ	3F	M3hAt	3F M3hAt
106947	BELTR LED 1.2ft 1600/840 DALI	x	x	x
106949	BELTR LED 1.4ft 3200/840 DALI	x	110109	x
106951	BELTR LED 1.5ft 4000/840 DALI	x	110110	x
106953	BELTR LED 2.2ft 3200/840 DALI	106959	x	x
106955	BELTR LED 2.4ft 6400/840 DALI	106961	110111	110074
106957	BELTR LED 2.5ft 8000/840 DALI	106963	110112	110075

BELTR LED SNS

Microwave motion sensor

Code	Type	3F	M3hAt	3F M3hAt
106977	BELTR LED 2.2ft SNS 3200/840 ML	106983	x	x
106979	BELTR LED 2.4ft SNS 6400/840 ML	106985	110113	110076
106981	BELTR LED 2.5ft SNS 8000/840 ML	106987	110114	110077

LEGEND

- 3F** - 3-phase 5 core through-wiring in the luminaire
- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- 3F M3hAt** - 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)
- DALI** - version with digital dimmable driver DALI
- SNS** - version with microwave motion sensor

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.

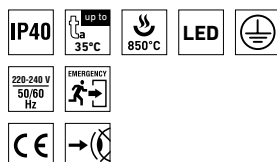
USE

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°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

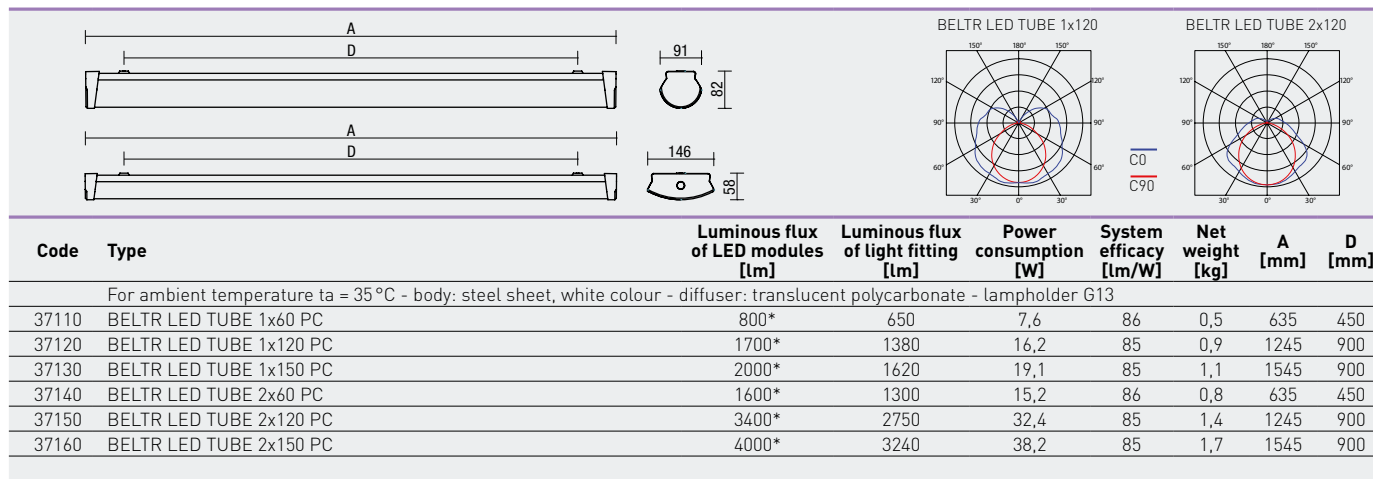


BELTR LED TUBE



TECHNICAL DESCRIPTION

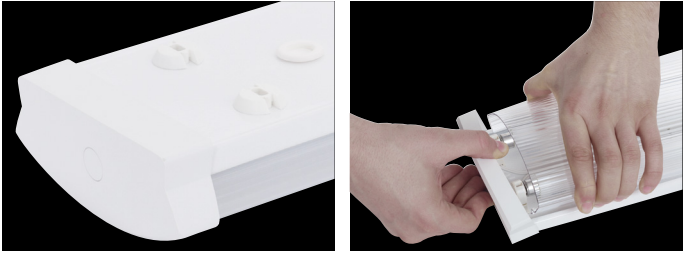
- Light fitting protection: IP40
- Maximum ambient temperature: $t_a = 35\text{ }^\circ\text{C}$,
- Maximum system efficacy: 86 lm/W
- MacAdam = 3 SDCM
- The watt and lumen values can vary by $\pm 7,5\%$
- Diffuser: transparent polycarbonate, UV stable, impact-resistant
- Body: steel sheet, white colour (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



* - total luminous flux of the light fitting with Osram SubstiTUBE T8 EM Value sources

LIGHT FITTING ATTACHMENT

Directly to a ceiling or a wall with the use of screws



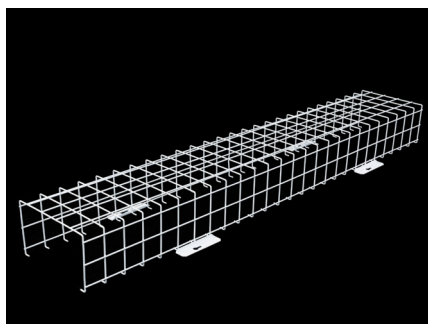
LIGHT FITTING DETAILED VIEW

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

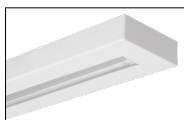
NAOS
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IP40

NAOS
page 320

NAOS AS
page 323



IP40

NAOS AS
page 323

NAOS SQUARE
page 325



IP40

NAOS SQUARE
page 325

NAOS MPR
page 327



IP40

NAOS MPR
page 327

NAOS SQUARE MPR
page 330



IP40

NAOS SQUARE MPR
page 330

NAOS
ACCESSORIES
page 332



NAOS
ACCESSORIES
page 332

NAOS



... indoor, metal, MultiLumen.

USE

Advanced lamp with low profile of total height of 34 mm only.

Thanks to the MultiLumen function, the luminaire can be adjusted for changing lighting requirements without much effort.

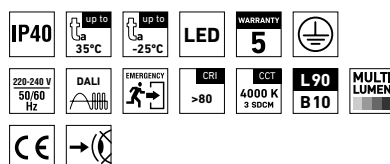
Body of the lamp is made of painted metal sheet and it is supplemented with acryl diffuser sandblasted on both sides.

The light fitting is suitable for offices, hallways, school interiors, libraries, lecture rooms, sanitary rooms, hospitals and passenger terminals.

ADVANTAGES

- Light fitting protection **IP40**
- Maximum ambient temperature up to **$t_a = 35^\circ\text{C}$**
- 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)

- **MultiLumen (ML)** function enables simple switching between up to four luminous fluxes via driver's DIP switch.
- 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: ESC



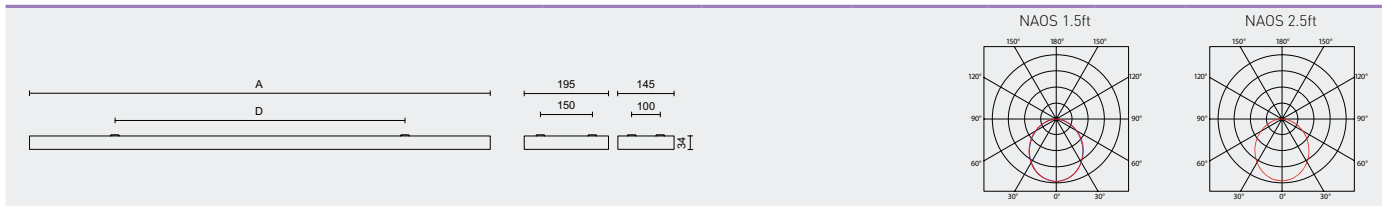
NAOS



TECHNICAL DESCRIPTION

- Light fitting protection: IP40
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ (version with emergency back-up source M3hAt)
- 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: acryl (PMMA) sandblasted on both sides
- Body: steel sheet, white (RAL 9003) or silver (RAL 9006) colour

- **MultiLumen (ML):** luminous flux variable in up to 4 steps. In the standard version preset maximum luminous flux.
- 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]	Preselected Step 1 of MultiLumen function			Net weight [kg]	A [mm]	D [mm]
		Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]			
For ambient temperature $t_a = 35^\circ\text{C}$ - body: steel sheet, white colour - diffuser made of sandblasted opalised acryl							
NAOS 1.2ft 1600/840	1630	1320	10,5	126	2,0	620	470
NAOS 1.4ft 3200/840 *	3260	2640	20,1	131	3,7	1180	1030
NAOS 1.5ft 4000/840 *	4180	3390	25,3	134	4,4	1460	1310
NAOS 2.2ft 3200/840	3250	2700	20,1	134	2,6	620	470
NAOS 2.4ft 6400/840 *	6520	5410	38,4	141	4,6	1180	1030
NAOS 2.5ft 8000/840 *	8330	6910	48,3	143	5,5	1460	1310

*) Also available with MultiLumen function:

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
NAOS 1.4ft 3200/840 ML	2280	17,3	132	1930	14,6	132	1560	11,7	133
NAOS 1.5ft 4000/840 ML	2930	21,6	136	2470	18,1	136	2000	14,7	136
NAOS 2.4ft 6400/840 ML	4690	32,9	143	3950	27,4	144	3200	22,0	145
NAOS 2.5ft 8000/840 ML	5990	41,5	144	5070	34,6	147	4100	27,9	147

NAOS

Code	Type
95020	NAOS 1.2ft 1600/840
95050	NAOS 1.4ft 3200/840 ML
95080	NAOS 1.5ft 4000/840 ML
95110	NAOS 2.2ft 3200/840
95140	NAOS 2.4ft 6400/840 ML
95170	NAOS 2.5ft 8000/840 ML

white colour, non-dimmable driver

M3hAt
110002
110010
110018
110026
110034
110046

NAOS DALI

Code	Type
95025	NAOS 1.2ft 1600/840 DALI
95055	NAOS 1.4ft 3200/840 DALI
95085	NAOS 1.5ft 4000/840 DALI
95115	NAOS 2.2ft 3200/840 DALI
95145	NAOS 2.4ft 6400/840 DALI
95175	NAOS 2.5ft 8000/840 DALI

white colour, digital dimmable driver DALI

M3hAt
110000
110008
110016
110024
110032
110044

NAOS s

Code	Type
95320	NAOS 1.2ft 1600/840 s
95350	NAOS 1.4ft 3200/840 ML s
95380	NAOS 1.5ft 4000/840 ML s
95410	NAOS 2.2ft 3200/840 s
95440	NAOS 2.4ft 6400/840 ML s
95470	NAOS 2.5ft 8000/840 ML s

silver colour (s), non-dimmable driver

M3hAt
110003
110011
110019
110027
110035
110047

NAOS DALI s

Code	Type
95325	NAOS 1.2ft 1600/840 DALI s
95355	NAOS 1.4ft 3200/840 DALI s
95385	NAOS 1.5ft 4000/840 DALI s
95415	NAOS 2.2ft 3200/840 DALI s
95445	NAOS 2.4ft 6400/840 DALI s
95475	NAOS 2.5ft 8000/840 DALI s

silver colour (s), digital dimmable driver DALI

M3hAt
110001
110009
110017
110025
110033
110045

LEGEND

- M3hAt** - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
- DALI** - version with digital dimmable driver DALI
- s** - silver colour RAL 9006

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.

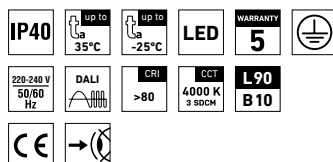
Made of painted metal, the luminaire body is complemented by an asymmetrical diffuser made of acrylic.

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.

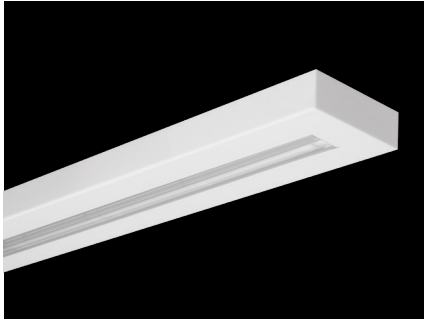
ADVANTAGES

- Light fitting protection **IP40**
- Maximum ambient temperature up to **$t_a = 35^\circ\text{C}$**
- Lifetime: 50,000 hours / L90B10
- Diffuser: 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: EŠ

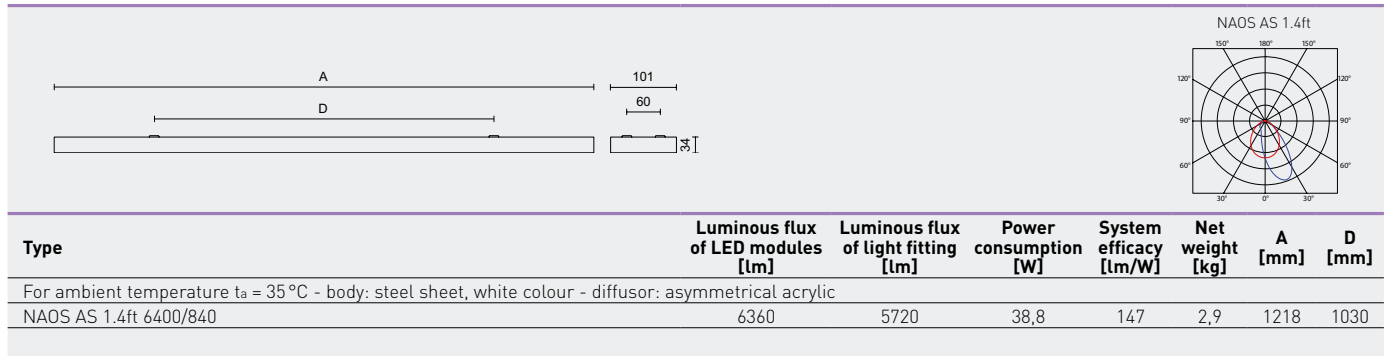


NAOS AS



TECHNICAL DESCRIPTION

- Light fitting protection: IP40
- 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



NAOS AS

Asymmetrical acrylic diffusor, white colour

Code	Type	DALI
10192	NAOS 1.4ft AS 6400/840	10198

NAOS AS s

Asymmetrical acrylic diffusor, silver colour [s]

Code	Type	DALI
10455	NAOS 1.4ft AS 6400/840 s	10492

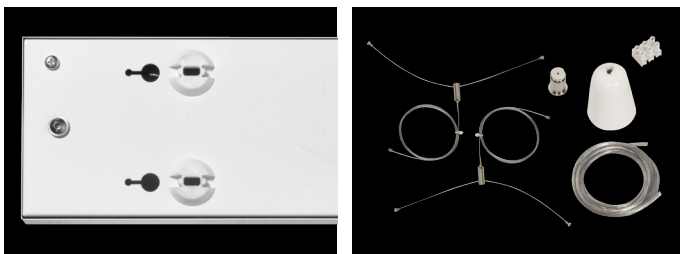
LEGEND

s – silver colour RAL 9006

DALI – version with electronic and digitally dimmed ballast module operated via DALI protocol

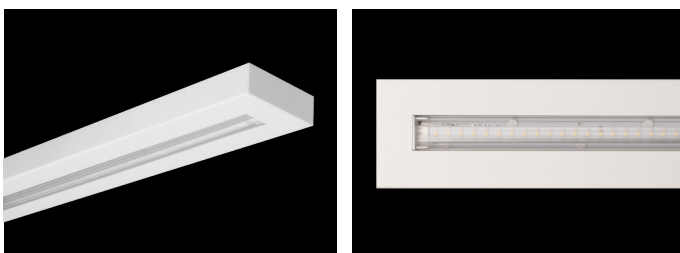
LIGHT FITTING ATTACHMENT

- 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.

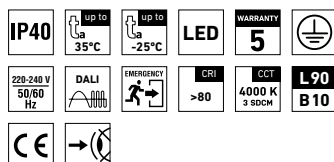
Body of the lamp is made of painted metal sheet and it is supplemented with acryl diffuser sandblasted on both sides.

The light fitting is suitable for offices, hallways, school interiors, libraries, lecture rooms, sanitary rooms, hospitals and passenger terminals.

ADVANTAGES

- Light fitting protection **IP40**
- Maximum ambient temperature up to **$t_a = 35^\circ\text{C}$**
- 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

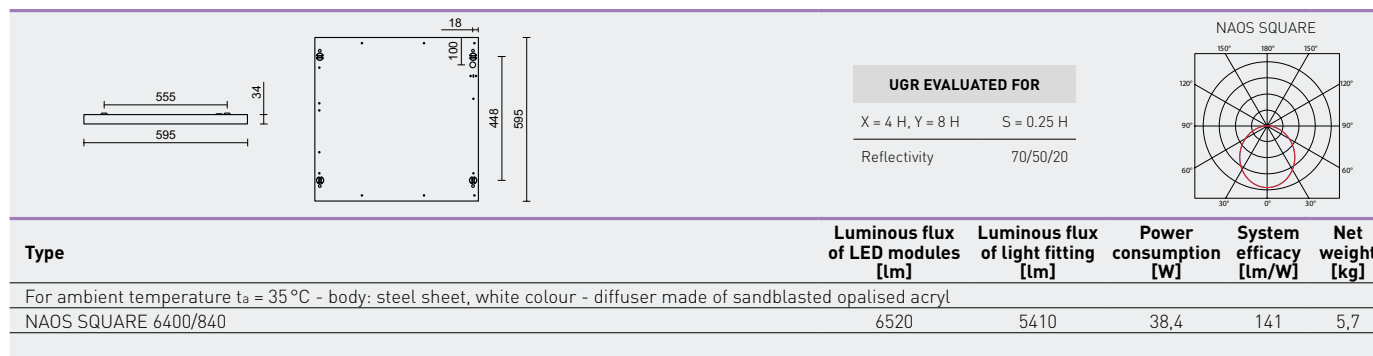


NAOS SQUARE



TECHNICAL DESCRIPTION

- Light fitting protection: IP40
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ (version with emergency back-up source M3hAt)
- 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: 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



NAOS SQUARE

Diffuser made from sandblasted opalised acryl, white colour

Code	Type
95720	NAOS SQUARE 6400/840

M3hAt	DALI	DALI M3hAt
110058	95725	110056

NAOS SQUARE s

Diffuser made from sandblasted opalised acryl, silver colour (s)

Code	Type
95760	NAOS SQUARE 6400/840 s

M3hAt	DALI	DALI M3hAt
110059	95765	110057

LEGEND

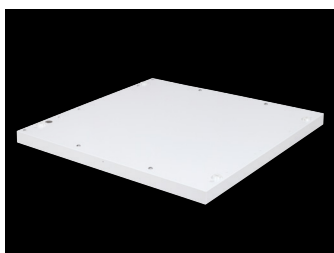
s – silver colour RAL 9006

DALI – version with electronic and digitally dimmed ballast module operated via DALI protocol

M3hAt – emergency back-up source with operating time of 3 hour (SA) for both permanent and emergency illumination with battery autotest

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



NAOS MPR



... indoor, metal, with low UGR.

USE

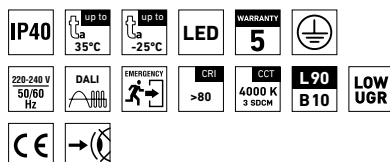
Advanced lamp **with low profile** of total height of **34 mm only**.

It is the luminaire with multi-layer micro pyramid optics (MPR) for light distribution without glare according to EN 12464-1 with **UGR <19**.

The light fitting is suitable for offices, hallways, school interiors, libraries, lecture rooms, sanitary rooms, hospitals and passenger terminals.

ADVANTAGES

- Light fitting protection **IP40**
- Maximum ambient temperature up to **t_a = 35 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: multi-layer micro pyramid optics (MPR), **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

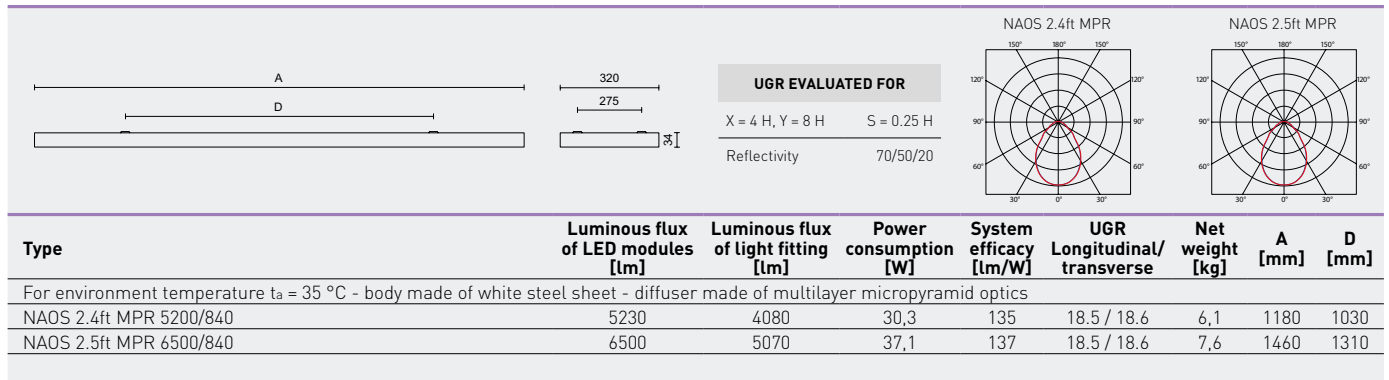


NAOS MPR



TECHNICAL DESCRIPTION

- Light fitting protection: IP40
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ (version with emergency back-up source M3hAt)
- 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), **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



95510 NAOS 2.4ft MPR 5200/840 = suitable replacement for T5 fl. tube light fitting LUXOR 235 OP ET5 - 2 x 35W
 95520 NAOS 2.4ft MPR 6500/840 = suitable replacement for T5 fl. tube light fitting LUXOR 249 OP ET5 - 2 x 49W

NAOS MPR

Diffuser with multilayer micropyramid optics, white colour

Code	Type	M3hAt	DALI	DALI M3hAt
95510	NAOS 2.4ft MPR 5200/840	110038	95515	110036
95520	NAOS 2.5ft MPR 6500/840	110050	95525	110048

NAOS MPR s

Diffuser with multilayer micropyramid optics, silver colour (s)

Code	Type	M3hAt	DALI	DALI M3hAt
95610	NAOS 2.4ft MPR 5200/840 s	110039	95615	110037
95620	NAOS 2.5ft MPR 6500/840 s	110051	95625	110049

LEGEND

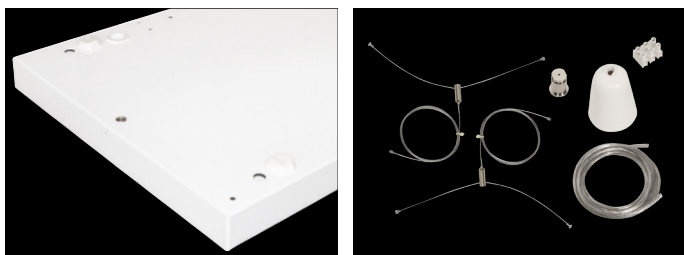
s – silver colour RAL 9006

DALI – version with electronic and digitally dimmed ballast module operated via DALI protocol

M3hAt – emergency back-up source with operating time of 3 hour (SA) for both permanent and emergency illumination with battery autotest

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 of **34 mm only**.

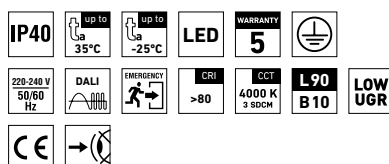
It is the luminaire with multi-layer micro-pyramid optics (MPR) for light distribution without glare according to EN 12464-1 with **UGR <19**.

The light fitting is suitable for offices, hallways, school interiors, libraries, lecture rooms, sanitary rooms, hospitals and passenger terminals.

ADVANTAGES

- Light fitting protection **IP40**
- Maximum ambient temperature up to **t_a = 35 °C**
- Lifetime: 50,000 hours / L90B10
- Diffuser: multi-layer micro-pyramid optics (MPR), **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: IP40
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ (version with emergency back-up source M3hAt)
- 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 micro pyramid optics (MPR), **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

UGR EVALUATED FOR

X = 4 H, Y = 8 H S = 0.25 H

Reflectivity 70/50/20

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 micro pyramid 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 4x18W a 4x14W

NAOS SQUARE MPR

Diffuser with multilayer micro pyramid optics, white colour

Code	Type	M3hAt	DALI	DALI M3hAt
95810	NAOS SQUARE MPR 5200/840	110062	95815	110060

NAOS SQUARE MPR s

Diffuser with multilayer micro pyramid optics, silver colour (s)

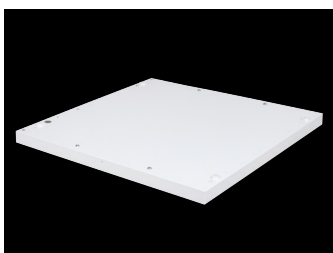
Code	Type	M3hAt	DALI	DALI M3hAt
95850	NAOS SQUARE MPR 5200/840 s	110063	95855	110061

LEGEND

- s** – silver colour RAL 9006
- DALI** – version with electronic and digitally dimmed ballast module operated via DALI protocol
- M3hAt** – emergency back-up source with operating time of 3 hour (SA) for both permanent and emergency illumination with battery autotest

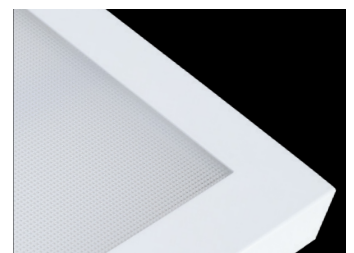
LIGHT FITTING ATTACHMENT

- 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 600 x 600mm grid lower ceiling

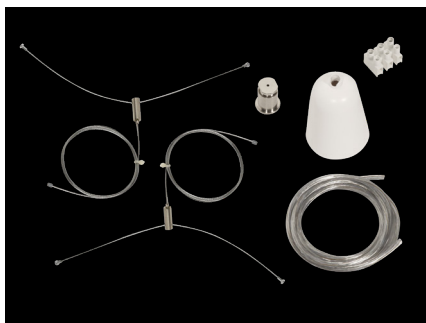


LIGHT FITTING DETAILED VIEW

NAOS SQUARE MPR



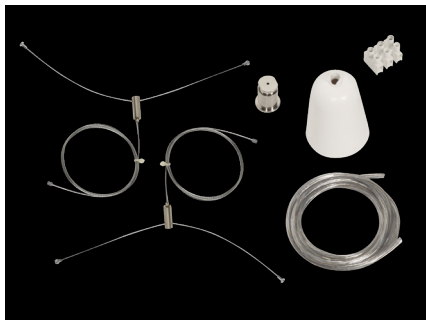
Ceiling suspender kit for NAOS, NAOS AS luminaires



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

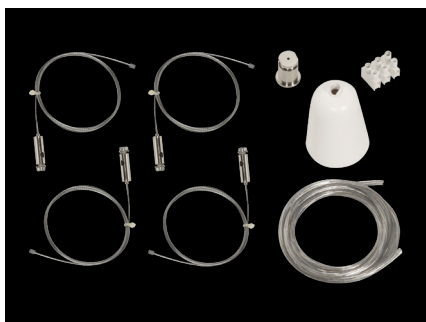
Code	Type	Description	Weight [kg]
101456	ZL 2 - S3	a wire suspension kit with a maximum length of 1.5m to hang double-line light fixtures (2.2ft, 2.4ft, 2.5ft) including a 3-core supply cable (a steel Y wire with a keyhole hanging bracket and a span of 300 mm including a ceiling wire holder clip – 2 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



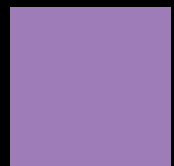
Code	Type	Description	Weight [kg]
101457	ZL 3 - S3	a wire suspension kit with a maximum length of 1.5 m to hang square light fixtures including a 3-core supply cable (a steel wire with a keyhole hanging bracket and a ceiling hook – 4 pcs, M5 bolt with a fan disc washer – 4pcs, supply cable, ceiling rose, 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



NAON



INDOOR
METAL



NAON – indoor metal LED light fitting

NAON
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IP20

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NAON

NEW



... indoor, metal.

USE

Advanced lamp with low profile of total height of 45 mm only.

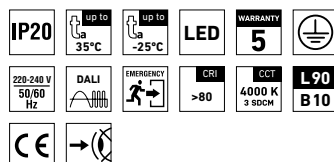
Body of the lamp is made of painted metal sheet and it is supplemented with acryl diffuser sandblasted on both sides.

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) colour
- 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

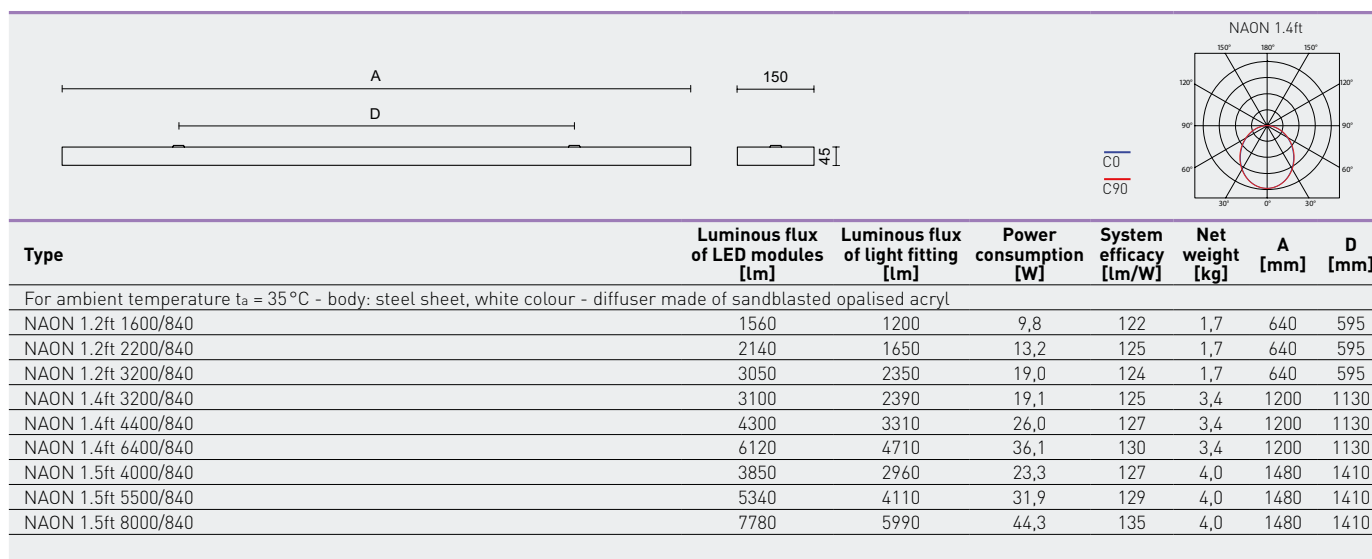


NAON



TECHNICAL DESCRIPTION

- Light fitting protection: IP20
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ (version with emergency back-up source M3hAt)
- Maximum system efficacy: 135 lm/W
- 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)
- Cable fixing: cable clamp
- Terminal block: screwless, three-pole (in basic version)
- Electric equipment: LED modules, current driver or current driver DALI
- The watt and lumen values can vary by $\pm 7,5\%$



NAON

Code	Type
107018	NAON 1.2ft 1600/840
107019	NAON 1.2ft 2200/840
107020	NAON 1.2ft 3200/840
107021	NAON 1.4ft 3200/840
107022	NAON 1.4ft 4400/840
107023	NAON 1.4ft 6400/840
107024	NAON 1.5ft 4000/840
107025	NAON 1.5ft 5500/840
107026	NAON 1.5ft 8000/840

Diffuser made from sandblasted opalised acryl, white colour

M3hAt	DALI	DALI M3hAt
109978	107045	109987
109979	107046	109988
109980	107047	109989
109981	107048	109990
109982	107049	109991
109983	107050	109992
109984	107051	109993
109985	107052	109994
109986	107053	109995

LEGEND

DALI – version with electronic and digitally dimmed ballast module operated via DALI protocol

M3hAt – emergency back-up source with operating time of 3 hours [SA] for both permanent and emergency illumination with battery autotest

LIGHT FITTING ATTACHMENT

- a) Directly to a ceiling or a wall with the use of screws (basic equipment)
- b) By suspending to a ceiling with the use of wire-cord suspensions, including hanging plate (accessories on request)

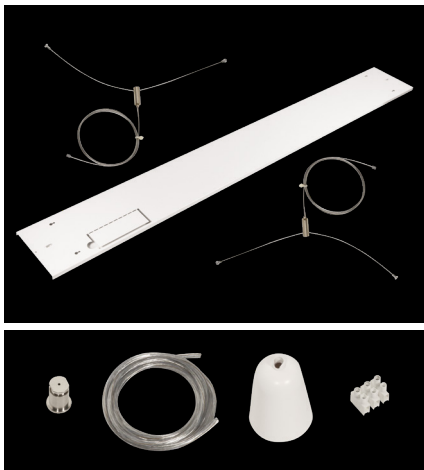


LIGHT FITTING DETAILED VIEW

NAON



Ceiling suspender kit for NAON



Code	Type	Description	Weight [kg]
107080	ZL4-S3 2ft	a wire suspension kit with a maximum length of 1.5m to hang light fixtures 1.2ft including a 3-core supply cable (hanging plate, 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)	0,6
107081	ZL4-S3 4ft	a wire suspension kit with a maximum length of 1.5m to hang light fixtures 1.4ft including a 3-core supply cable (hanging plate, 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)	1,0
107082	ZL4-S3 5ft	a wire suspension kit with a maximum length of 1.5m to hang light fixtures 1.5ft including a 3-core supply cable (hanging plate, 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)	1,2
Code	Type	Description	Weight [kg]
107083	ZL4-S5 2ft	a wire suspension kit with a maximum length of 1.5m to hang light fixtures 1.2ft including a 5-core supply cable (hanging plate, 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, five-pole terminal block)	0,6
107084	ZL4-S5 4ft	a wire suspension kit with a maximum length of 1.5m to hang light fixtures 1.4ft including a 5-core supply cable (hanging plate, 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, five-pole terminal block)	1,0
107085	ZL4-S5 5ft	a wire suspension kit with a maximum length of 1.5m to hang light fixtures 1.5ft including a 5-core supply cable (hanging plate, 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, five-pole terminal block)	1,2



SIRIS



INTERIOR
MULTILUMEN
MULTICOLOUR



SIRIS – interior modern LED fixture

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IP40

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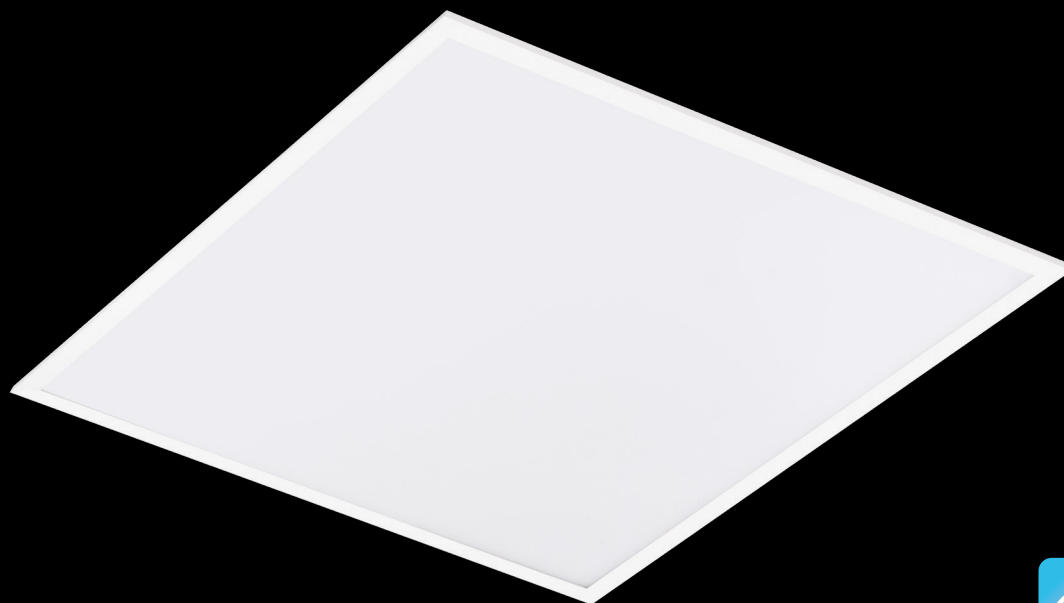
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ACCESSORIES
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SIRIS

SUMMER 2025



... interior luminaire with low UGR, MultiLumen, MultiColour.

USE

Elegant design and functionality – Luminaires are available in sizes 595x595mm and 295x1195mm, which allow perfect fitting into the standard suspended ceiling systems or the possibility of simple installation directly on the ceiling. For an even more stylish look, you can order a metal white frame, which will give the luminaire a sophisticated and elegant look.

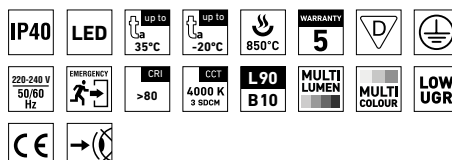
It is the luminaire with multi-layer microprism optics (MPR) for light distribution without glare according to EN 12464-1 with **UGR <19**.

SIRIS LED panels are the ideal solution for modern lighting in offices, commercial spaces, educational facilities and healthcare centers and other architectural needs.

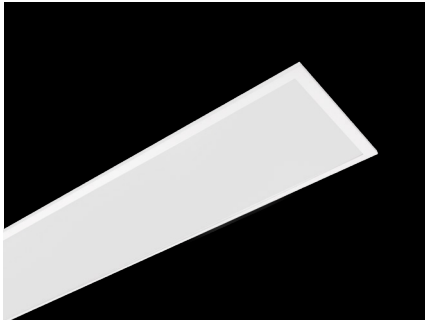
Thanks to high luminous efficiency and low energy consumption, it is a suitable replacement for fluorescent tubes.

ADVANTAGES

- Light fitting protection **IP40**
- Maximum ambient temperature up to **ta = 35 °C**
- Diffuser: multi-layer microprism optics (MPR), **UGR <19**
- Lifetime: 50 000 hours / L90B10
100 000 hours / L80B10
- Standard preset CRI > 80: 4000 K
- It can be delivered in dimmable or emergency version
- **MultiLumen (ML)** function enables simple switching between four luminous fluxes via driver's DIP switch.
- **MultiColour (MC)** function enables simple switching between three light colour temperature
- **MultiLumen and MultiColour (MLC):** Both function available in the luminaire.



SIRIS



TECHNICAL DESCRIPTION

- Light fitting protection: **IP40**
 - Maximum ambient temperature: **ta = 35 °C**
 - Maximum ambient temperature: **ta = 0-35 °C** for version with emergency back-up M3hAt
 - Lifetime: 50 000 hours / L90B10
100 000 hours / L80B10
 - Maximum light fitting efficiency: **153 lm/W**
 - **CRI > 80: 4000 K** – standard preset
 - MacAdam = 3 SDCM
 - Diffuser: multi-layer micropyramid optics
 - **(MPR), UGR <19**
 - Body: steel sheet + PET foil
- **MultiLumen (ML):** Luminous flux variable in 4 steps. Preselected Step 1 as a standard.
 - **MultiColour (MC):** Colour temperature variable in 3 steps: 3000, 4000 or 5000 K. Preselected 4000 K as a standard.
 - **MultiLumen and MultiColour (MLC):** Both function available in the luminaire. Preselected Step 1 and 4000 K as a standard.
 - Electric equipment: LED modules, non-dimmable driver with power switching or digital dimmable driver DALI
 - 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]	Preselected Step 1 of MultiLumen function				Net weight [kg]
			Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	UGR Longitudinal/transverse	
All values are measured with the preselected colour temperature 4000 K as a standard.							
SIRIS SQUARE 4500/840 MLC	35	4490	3860	25,6	151	18.3 / 18.7	1,7
SIRIS 4500/840 MLC	35	4490	3860	25,6	151	18.0 / 18.6	1,7

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
SIRIS SQUARE 4500/840 MLC	3640	23,8	153	3320	21,7	153	3050	20,0	153
SIRIS 4500/840 MLC	3640	23,8	153	3320	21,7	153	3050	20,0	153

SIRIS MLC

Non-dimmable driver with power switching

Code	Type	M3hAt
110121	SIRIS SQUARE 4500/840 MLC	x
110122	SIRIS 4500/840 MLC	x

SIRIS DALI MC

Digital dimmable driver DALI

Code	Type	M3hAt
110123	SIRIS SQUARE 4500/840 DALI MC	110125
110124	SIRIS 4500/840 DALI MC	110126

LEGEND

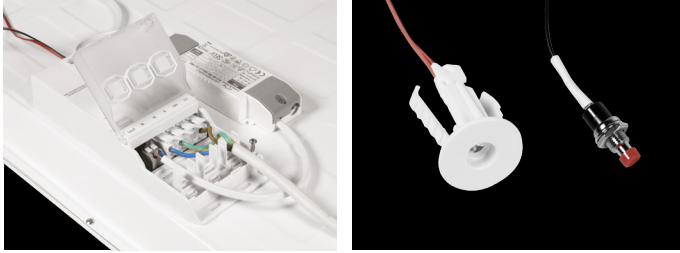
- DALI** - a version featuring a digitally dimmable driver
M3hAt - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotesting

LIGHT FITTING DETAILED VIEW

SIRIS



EMERGENCY MODULE (M3hAt)



Frame SIRIS SQUARE



Code	Description	Weight [kg]
110127	Frame SIRIS SQUARE (598x598x70 mm)	0,8

Frame SIRIS



Code	Description	Weight [kg]
110128	Frame SIRIS (298x1198x70 mm)	1,0



MO SLIM



INDOOR
BATTEN



MO SLIM – indoor batten LED light fittings

MO SLIM
page 348



IP20

MO SLIM
page 348

MO SLIM



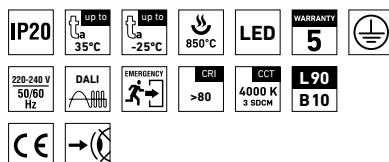
... indoor suspended LED light fitting.

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 M3hAt
- Through-wiring in basic version

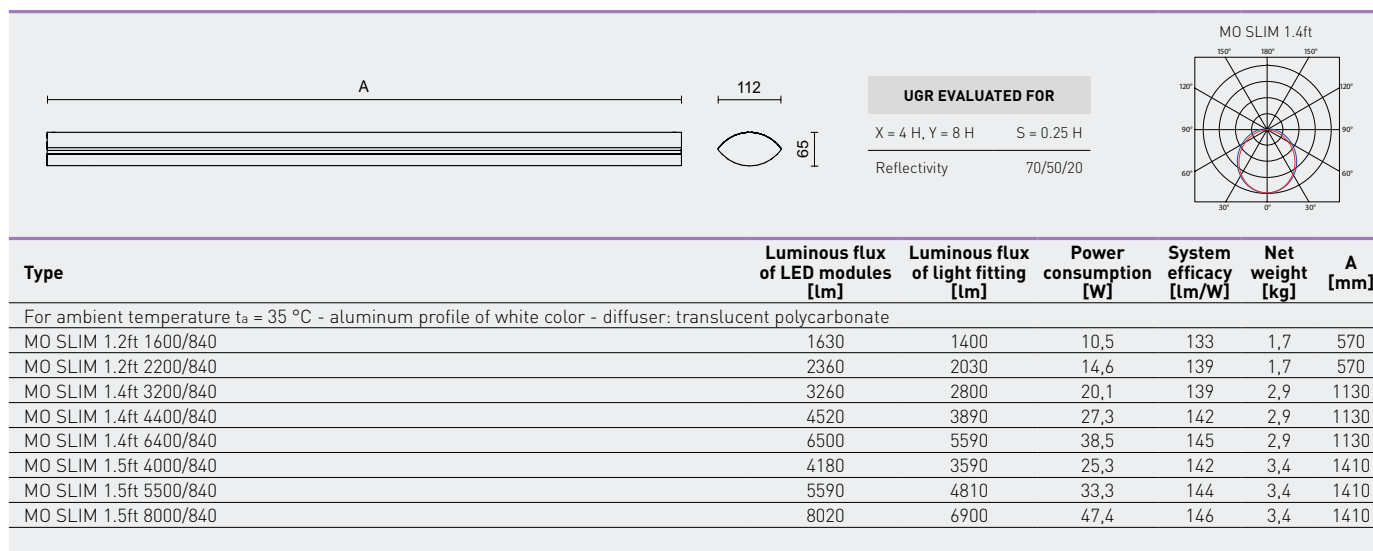


MO SLIM



TECHNICAL DESCRIPTION

- Light fitting protection: IP20
- Maximum ambient temperature: $t_a = 35^\circ\text{C}$, Maximum ambient temperature: $t_a = 0-35^\circ\text{C}$ (version with emergency back-up source M3hAt)
- 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: 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.



MO SLIM

Code	Type
63878	MO SLIM 1.2ft 1600/840
63859	MO SLIM 1.2ft 2200/840
63899	MO SLIM 1.4ft 3200/840
63903	MO SLIM 1.4ft 4400/840
63874	MO SLIM 1.4ft 6400/840
63904	MO SLIM 1.5ft 4000/840
63914	MO SLIM 1.5ft 5500/840
63919	MO SLIM 1.5ft 8000/840

Body: white colour (RAL 9003)

M3hAt	DALI	DALI M3hAt
x	63922	x
x	63908	x
63947	63945	63955
63916	63949	63926
63921	63918	63931
63936	63909	63940
63944	63924	63952
63948	63929	63956

MO SLIM s

Code	Type
63932	MO SLIM 1.2ft 1600/840 s
63913	MO SLIM 1.2ft 2200/840 s
63953	MO SLIM 1.4ft 3200/840 s
63957	MO SLIM 1.4ft 4400/840 s
63928	MO SLIM 1.4ft 6400/840 s
10497	MO SLIM 1.5ft 4000/840 s
10498	MO SLIM 1.5ft 5500/840 s
10500	MO SLIM 1.5ft 8000/840 s

Body: silver colour (RAL 9006)

M3hAt	DALI	DALI M3hAt
x	10621	x
x	10622	x
10518	10751	10792
10599	10752	10794
10608	10753	10795
10614	10757	10797
10615	10758	10798
10617	10759	10799

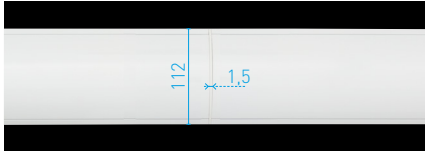
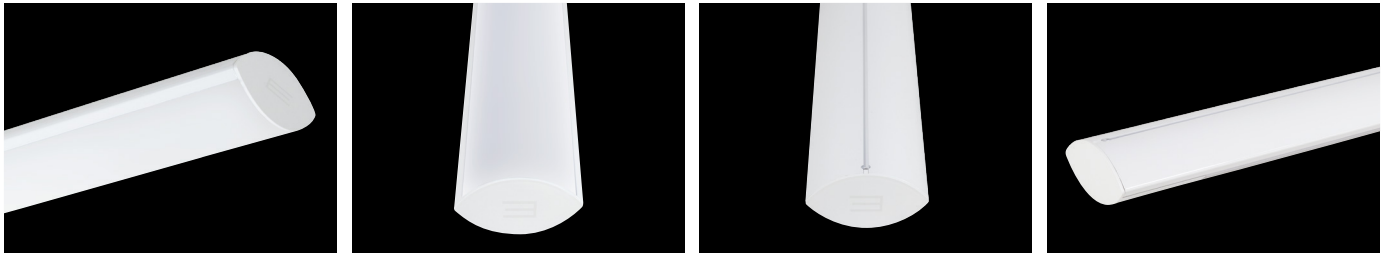
Example of type marking: 63921 = MO SLIM 1.4ft 6400/840 M3hAt

LEGEND

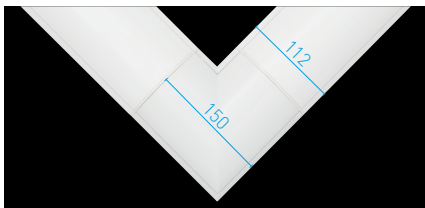
s – silver colour RAL 9006**DALI** – version with electronic and digitally dimmed ballast module operated via DALI protocol**M3hAt** – emergency back-up source with operating time of 3 hours [SA] for both permanent and emergency illumination with battery autotesting

LIGHT FITTING DETAILED VIEW

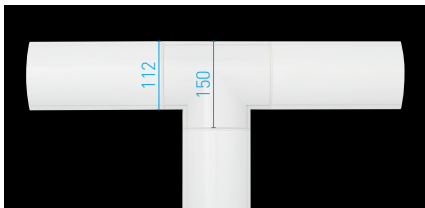
MO SLIM



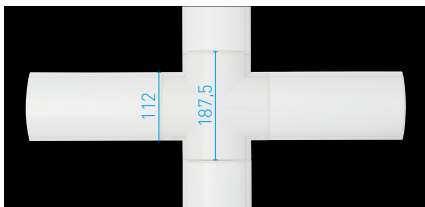
Code	Type	Description	Weight [kg]
10802	MO SLIM - S	direct connection of light fittings into row, white RAL 9003	0,5
10809	MO SLIM - S s	direct connection of light fittings into row, silver RAL 9006	0,5



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 (1 pc)	0,1
16102	Z4 - F1 s	wire-cord suspensions and joints, silver RAL 9006 (1 pc)	0,1



Code	Type	Description	Weight [kg]
16104	Z4	wire-cord suspension and joint (1 pc)	0,1



TAURI



INTERIOR
MULTILUMEN
MULTICOLOUR
WALL/CEILING-MOUNTED



TAURI – interior modern LED fixture

TAURI
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IP20

TAURI
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TAURI

NEW



... interior modern luminaire, MultiLumen, MultiColour.

USE

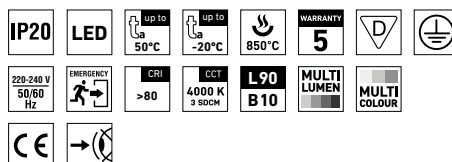
TAURI is a modern, versatile interior light fixture that offers several light outputs and color spectra in one body.

Thanks to this variability, it becomes a modern interior element with the function of selecting the light intensity, which will create an atmosphere exactly according to your wishes.

TAURI is a type of luminaire that will enliven the interior and at the same time offers its users a simple option of setting and adapting to specific conditions.

ADVANTAGES

- Light fitting protection **IP20**
- High temperature resistance in a range from $t_a = -20^\circ\text{C}$ to **$t_a = 50^\circ\text{C}$**
- Lifetime: 50 000 hours / L90B10
100 000 hours / L80B10
- Standard preset CRI > 80: 4000 K
- **MultiLumen (ML)** function enables simple switching between four luminous fluxes via driver's DIP switch.
- **MultiColour (MC)** function enables simple switching between three light colour temperature
- **MultiLumen and MultiColour (MLC):** Both function available in the luminaire.
- Certificates: **CE**



TAURI



TECHNICAL DESCRIPTION

- Light fitting protection: **IP20**
 - Maximum ambient temperature: **ta = 50 °C**
 - Maximum ambient temperature: ta = 0-40 °C for version with emergency back-up M3hAt
 - Lifetime: 50 000 hours / L90B10
100 000 hours / L80B10
 - Maximum light fitting efficiency: **144 lm/W**
 - **CRI > 80: 4000 K** – standard preset
 - MacAdam = 3 SDCM
 - Diffuser: **translucent PC** (high mechanical resistance, UV stability)
 - Body: steel sheet, white colour (RAL 9003)
 - Side cover: white PC
 - Reflector: steel sheet, white colour (RAL 9003)
- **MultiLumen (ML):** Luminous flux variable in 4 steps. Preselected Step 1 as a standard.
 - **MultiColour (MC):** Colour temperature variable in 3 steps: 3000, 4000 or 6500 K. Preselected 4000 K as a standard.
 - **MultiLumen and MultiColour (MLC):** Both function available in the luminaire. Preselected Step 1 and 4000 K as a standard.
 - Terminal block: screwless, 3-pole or 5-pole
 - Electric equipment: LED modules, non-dimmable driver with power switching or digital dimmable driver DALI
 - 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]	Preselected Step 1 of MultiLumen function			Net weight [kg]	A [mm]	D [mm]
			Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]			
All values are measured with the preselected colour temperature 4000 K as a standard.								
TAURI 1.4ft 5400/840 MLC	50	5470	4930	34,8	142	1,3	1170	965
TAURI 1.5ft 6800/840 MLC	50	6840	6160	42,9	144	1,6	1470	1265

Type	MultiLumen function								
	Step 2			Step 3			Step 4		
	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]
TAURI 1.4ft 5400/840 MLC	4230	29,8	142	3520	24,9	141	2820	19,9	142
TAURI 1.5ft 6800/840 MLC	5280	36,8	143	4400	39,6	144	3520	24,5	144

TAURI MLC

Non-dimmable driver with power switching

Code	Type	1F	3F	M3hAt	3F M3hAt
107110	TAURI 1.4ft 5400/840 MLC	107900	107902	107112	107904
107114	TAURI 1.5ft 6800/840 MLC	107901	107903	107116	107905

TAURI MLC SNS

Non-dimmable driver with power switching, microwave motion sensor

Code	Type	1F	3F	M3hAt	3F M3hAt
107111	TAURI 1.4ft SNS 5400/840 MLC	x	110119	107113	107906
107115	TAURI 1.5ft SNS 6800/840 MLC	x	110120	107117	107907

TAURI MC DALI

Digital dimmable driver DALI

Code	Type	1F	3F	M3hAt	3F M3hAt
107908	TAURI 1.4ft 5400/840 DALI MC	107910	107912	107914	107916
107909	TAURI 1.5ft 6800/840 DALI MC	107911	107913	107915	107917

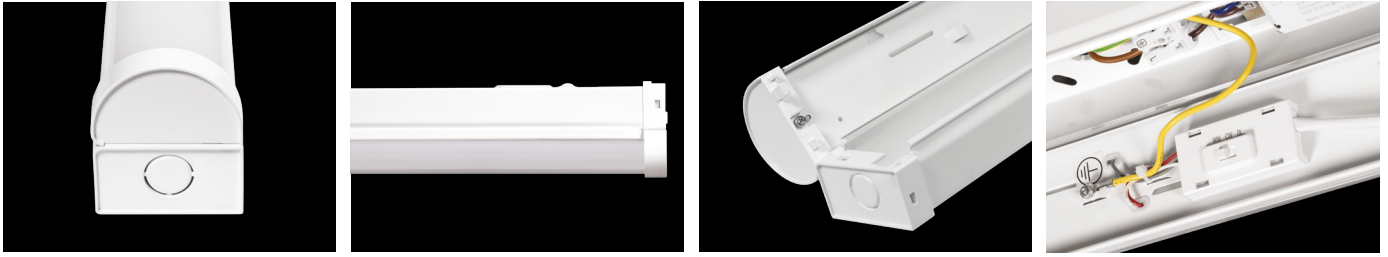
LEGEND

- 1F** - 1-phase 3 core through-wiring in the luminaire
3F - 3-phase 5 core through-wiring in the luminaire
M3hAt - emergency back-up source with 3 hour operating time for maintained emergency illumination with battery autotest
3F M3hAt - 3-phase 5 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

- SNS** - microwave motion sensor
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 M3hAt - 3-phase 7 core through-wiring in the luminaire (L3 used for emergency unit unswitched power supply)

LIGHT FITTING DETAILED VIEW

TAURI





PUBLIC LIGHTING



OUTDOOR
STREET

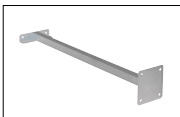


PIXEL LED – luminaires for street lighting

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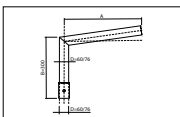
IP66

EVELUX – luminaires for street lighting

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EVELUX
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IP66

PIXEL LED



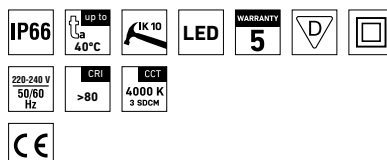
... dustproof and waterproof floodlight.

USE

The luminaire is suitable for high halls, sports grounds, advertising areas, cycle paths, street lighting and industrial buildings.

ADVANTAGES

- Light fitting protection **IP66**
- Ambient temperature from $t_a = -35^\circ\text{C}$ up to $t_a = 40^\circ\text{C}$
- Lifetime: 50,000 hours / L80B20
- Body: aluminium alloy, anthracite colour (RAL 7039)
- Reflector cover made of thermo-hardened safety glass
- Standard model - CRI > 80: 4000 K
- Insulation: class II

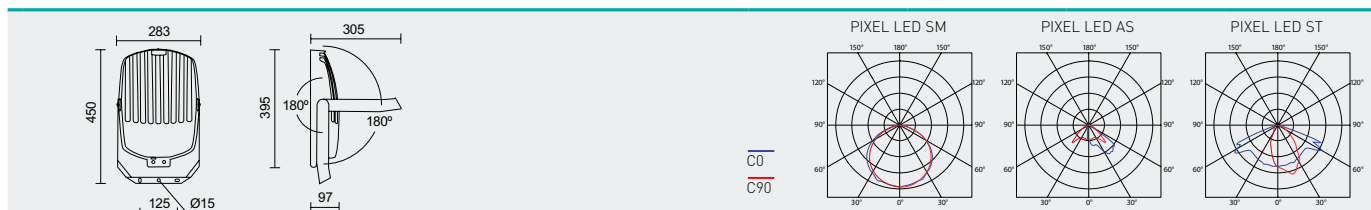


PIXEL LED



TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$,
- Maximum system efficacy: 138 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- CRI > 80, CCT = 4000 K
- MacAdam = 3 SDCM
- Lifetime: 50,000 hours / L80B20
- Body: aluminium alloy, anthracite colour (RAL 7039)
- Reflector: symmetrical (SM), asymmetrical (AS), asymmetrical for street lighting (ST)
- Cover: heat-hardened safety glass
- Terminal block: screwed, three-poles, for conductor cross-section max. 4 mm²
- Cable glands: PG 13,5
- Installation: included column holder ADAPTER 60 HORIZONTAL
- Electric equipment: LED modules, current driver



Type	Luminous flux of LED modules [lm]	Luminous flux of light fitting [lm]	Power consumption [W]	System efficacy [lm/W]	Net weight [kg]
For ambient temperature max. $t_a = 40^\circ\text{C}$ - Body: aluminium alloy, anthracite colour					
PIXEL LED 5200/840 SM	5200	4760	35,3	135	1,4
PIXEL LED 10400/840 SM	10400	9520	69,2	138	2,5
PIXEL LED 15600/840 SM	15600	14280	104,9	136	3,4
PIXEL LED 20800/840 SM	20800	19030	140,2	136	4,8

PIXEL LED SM - symmetrical reflector

Code	Type
14410	PIXEL LED 5200/840 SM
14415	PIXEL LED 10400/840 SM
14420	PIXEL LED 15600/840 SM
14425	PIXEL LED 20800/840 SM

PIXEL LED AS - asymmetrical reflector

Code	Type
14430	PIXEL LED 5200/840 AS
14435	PIXEL LED 10400/840 AS
14440	PIXEL LED 15600/840 AS
14445	PIXEL LED 20800/840 AS

PIXEL LED ST - asymmetrical reflector for street lighting

Code	Type
14450	PIXEL LED 5200/840 ST
14455	PIXEL LED 10400/840 ST
14460	PIXEL LED 15600/840 ST
14465	PIXEL LED 20800/840 ST

Example of type marking: 14455 = PIXEL LED 10400/840 ST

LEGEND

- SM** - symmetrical polished aluminium reflector
- AS** - asymmetrical polished aluminium reflector

ST - asymmetrical reflector for street lighting

LIGHT FITTING ATTACHMENT

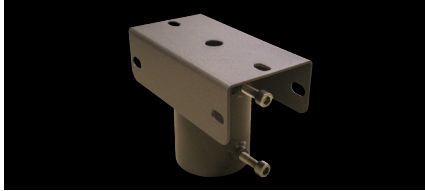
- Directly to ceiling or wall using screws
- Directly to ceiling or wall using brackets (accessory: 46104)
- Using brackets on outdoor lighting columns



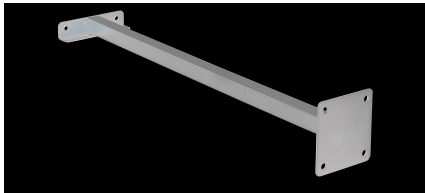
LIGHT FITTING DETAILED VIEW

PIXEL LED





Code	Type	Description	Weight [kg]
46102	ADAPTER 60 PIXEL LED	60 mm diameter column mount for PIXEL LED luminaires	0,9



Code	Type	Description	Weight [kg]
46104	KONZOLA 74	wall bracket, length 740 mm	1,8



Code	Type	Description	Weight [kg]
46106	ADAPTER 60 HORIZONTAL PIXEL LED	bracket for horizontal mounting of PIXEL LED luminaire on a column with a diameter of 60 mm	1,8



EVELUX



... dustproof and waterproof floodlight.

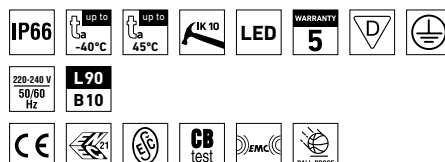
USE

The luminaire is perfect for roads, residential areas, parking lots, and outdoor spaces.

The luminaire feature protection against dust, moisture, and splashing water.

ADVANTAGES

- Light fitting protection **IP66**
- Ambient temperature from **ta = -40°C** up to **ta = 45°C**
- Lifetime: 100,000 hours / L80B20
- Body: aluminium alloy, grey colour (RAL 7021)
- Reflector cover made of thermo-hardened safety glass
- Standard model - CRI > 70: 2700 K, 3000 K
- At request CRI > 70: 4000 K, 5000 K
- Optional optical luminaire system
- Surge protector 10 kV
- Certification: EŠ, CB, ENEC, BALL-PROOF

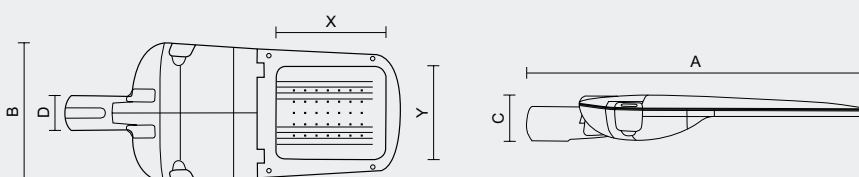


EVELUX

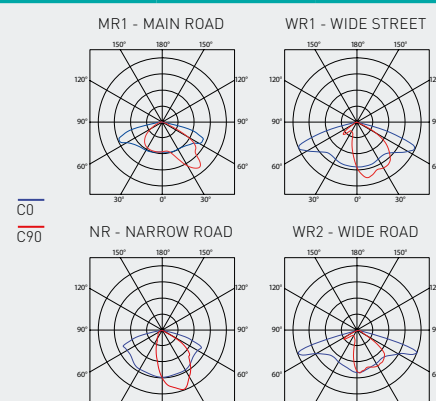


TECHNICAL DESCRIPTION

- Light fitting protection: IP66
- Maximum ambient temperature: $t_a = 45^\circ\text{C}$,
- Maximum system efficacy: 153 lm/W
- The watt and lumen values can vary by $\pm 7,5\%$
- CRI > 70, CCT = 2700 K, 3000 K
- MacAdam = 4 SDCM
- Lifetime: 100,000 hours / L80B20
- 50.000 hours / L90B10
- Body: aluminium alloy, grey colour (RAL 7021)
- Cover: heat-hardened safety glass
- Terminal block: screwed, three-poles terminal with disconnector for conductor cross-section max. 4 mm²
- Cable glands: PG 9
- Installation: tilt bracket included
- Electric equipment:
 - LED modules, surge protection 10 kV
 - On/Off driver with CLO and midnight function
 - DALI Zhaga socket driver
- Optics with a glare shield on request
- Adjustable tilt $\pm 20^\circ$



	A	B	C	D	X	Y
XS	568	227	100	60	137	156
S	630	265	95	60	185	150
M	720	310	100	60	235	200
L	870	345	127	76	345	250



Type	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]
For ambient temperature max. $t_a = 45^\circ\text{C}$ - Body: aluminium alloy, grey colour						
EVELUX XS 16/310/727	-40° 45°	2680	2300	16,3	141	3,5
EVELUX XS 16/450/727	-40° 45°	3810	3280	23,1	142	3,5
EVELUX XS 16/600/727	-40° 45°	4990	4290	30,7	140	3,5
EVELUX S 16/310/727	-40° 45°	2700	2320	16,3	142	5
EVELUX S 24/310/727	-40° 45°	3950	3400	23,9	142	5
EVELUX S 24/450/727	-40° 45°	5690	4890	33,9	144	5
EVELUX S 24/600/727	-40° 45°	7500	6450	45,3	142	5
EVELUX M 32/310/727	-40° 45°	5340	4590	31,4	146	7,2
EVELUX M 48/310/727	-40° 45°	7950	6840	45,3	151	7,2
EVELUX M 48/450/727	-40° 45°	11410	9810	65,3	150	7,2
EVELUX M 48/600/727	-40° 45°	14980	12880	88,1	146	7,2
EVELUX L 96/310/727	-40° 45°	15900	13670	90,6	151	10
EVELUX L 96/450/727	-40° 40°	22810	19620	130,6	150	10
EVELUX L 96/550/727	-40° 35°	27460	23620	161,5	146	10
EVELUX XS 16/310/730	-40° 45°	2720	2340	16,3	144	3,5
EVELUX XS 16/450/730	-40° 45°	3870	3330	23,1	144	3,5
EVELUX XS 16/600/730	-40° 45°	5070	4360	30,7	142	3,5
EVELUX S 16/310/730	-40° 45°	2740	2360	16,3	145	5
EVELUX S 24/310/730	-40° 45°	4010	3450	23,9	144	5
EVELUX S 24/450/730	-40° 45°	5780	4970	33,9	147	5
EVELUX S 24/600/730	-40° 45°	7610	6540	45,3	144	5
EVELUX M 32/310/730	-40° 45°	5420	4660	31,4	148	7,2
EVELUX M 48/310/730	-40° 45°	8070	6940	45,3	153	7,2
EVELUX M 48/450/730	-40° 45°	11580	9960	65,3	153	7,2
EVELUX M 48/600/730	-40° 45°	15210	13080	88,1	148	7,2
EVELUX L 96/310/730	-40° 45°	16140	13880	90,6	153	10
EVELUX L 96/450/730	-40° 40°	23160	19920	130,6	153	10
EVELUX L 96/550/730	-40° 35°	27880	23980	161,5	148	10

EVELUX

Driver 1 PN

Type	AS	CP	MR1	EWS1	EP	WR1	WR2	CW1	WR3	TE	CW2	NR	CW1-90
EVELUX XS 16/310/727	104529	104530	104537	104535	104534	104541	104542	104531	104543	104540	104533	104539	104532
EVELUX XS 16/450/727	104545	104546	104553	104551	104550	104557	104558	104547	104559	104556	104549	104555	104548
EVELUX XS 16/600/727	104561	104562	104569	104567	104566	104573	104574	104563	104575	104572	104565	104571	104564
EVELUX S 16/310/727	104401	104402	104425	104423	104422	104429	104430	104403	104431	104428	104405	104427	104404
EVELUX S 24/310/727	104433	104434	104457	104455	104454	104461	104462	104435	104463	104460	104437	104459	104436
EVELUX S 24/450/727	104465	104466	104489	104487	104486	104493	104494	104467	104495	104492	104469	104491	104468
EVELUX S 24/600/727	104497	104498	104521	104519	104518	104525	104526	104499	104527	104524	104501	104523	104500
EVELUX M 32/310/727	104273	104274	104297	104295	104294	104301	104302	104275	104303	104300	104277	104299	104276
EVELUX M 48/310/727	104305	104306	104329	104327	104326	104333	104334	104307	104335	104332	104309	104331	104308
EVELUX M 48/450/727	104337	104338	104361	104359	104358	104365	104366	104339	104367	104364	104341	104363	104340
EVELUX M 48/600/727	104369	104370	104393	104391	104390	104397	104398	104371	104399	104396	104373	104395	104372
EVELUX L 96/310/727	104177	104178	104201	104199	104198	104205	104206	104179	104207	104204	104181	104203	104180
EVELUX L 96/450/727	104209	104210	104233	104231	104230	104237	104238	104211	104239	104236	104213	104235	104212
EVELUX L 96/550/727	104241	104242	104265	104263	104262	104269	104270	104243	104271	104268	104245	104267	104244
EVELUX XS 16/310/730	104929	104930	104937	104935	104934	104941	104942	104931	104943	104940	104933	104939	104932
EVELUX XS 16/450/730	104945	104946	104953	104951	104950	104957	104958	104947	104959	104956	104949	104955	104948
EVELUX XS 16/600/730	104961	104962	104969	104967	104966	104973	104974	104963	104975	104972	104965	104971	104964
EVELUX S 16/310/730	104801	104802	104825	104823	104822	104829	104830	104803	104831	104828	104805	104827	104804
EVELUX S 24/310/730	104833	104834	104857	104855	104854	104861	104862	104835	104863	104860	104837	104859	104836
EVELUX S 24/450/730	104865	104866	104889	104887	104886	104893	104894	104867	104895	104892	104869	104891	104868
EVELUX S 24/600/730	104897	104898	104921	104919	104918	104925	104926	104899	104927	104924	104901	104923	104900
EVELUX M 32/310/730	104673	104674	104697	104695	104694	104701	104702	104675	104703	104700	104677	104699	104676
EVELUX M 48/310/730	104705	104706	104729	104727	104726	104733	104734	104707	104735	104732	104709	104731	104708
EVELUX M 48/450/730	104737	104738	104761	104759	104758	104765	104766	104739	104767	104764	104741	104763	104740
EVELUX M 48/600/730	104769	104770	104793	104791	104790	104797	104798	104771	104799	104796	104773	104795	104772
EVELUX L 96/310/730	104577	104578	104601	104599	104598	104605	104606	104579	104607	104604	104581	104603	104580
EVELUX L 96/450/730	104609	104610	104633	104631	104630	104637	104638	104611	104639	104636	104613	104635	104612
EVELUX L 96/550/730	104641	104642	104665	104663	104662	104669	104670	104643	104671	104668	104645	104667	104644

102276 Setting: Midnight function.

EVELUX DALI

Digitally dimmable driver DALI 4 PN

Type	AS	CP	MR1	EWS1	EP	WR1	WR2	CW1	WR3	TE	CW2	NR	CW1-90
EVELUX XS 16/310/727 DALI	x	x	x	x	x	x	x	x	x	x	x	x	x
EVELUX XS 16/450/727 DALI	x	x	x	x	x	x	x	x	x	x	x	x	x
EVELUX XS 16/600/727 DALI	x	x	x	x	x	x	x	x	x	x	x	x	x
EVELUX S 16/310/727 DALI	104406	104407	104414	104412	104411	104418	104419	104408	104420	104417	104410	104416	104409
EVELUX S 24/310/727 DALI	104438	104439	104446	104444	104443	104450	104451	104440	104452	104449	104442	104448	104441
EVELUX S 24/450/727 DALI	104470	104471	104478	104476	104475	104482	104483	104472	104484	104481	104474	104480	104473
EVELUX S 24/600/727 DALI	104502	104503	104510	104508	104507	104514	104515	104504	104516	104513	104506	104512	104505
EVELUX M 32/310/727 DALI	104278	104279	104286	104284	104283	104290	104291	104280	104292	104289	104282	104288	104281
EVELUX M 48/310/727 DALI	104310	104311	104318	104316	104315	104322	104323	104312	104324	104321	104314	104320	104313
EVELUX M 48/450/727 DALI	104342	104343	104350	104348	104347	104354	104355	104344	104356	104353	104346	104352	104345
EVELUX M 48/600/727 DALI	104374	104375	104382	104380	104379	104386	104387	104376	104388	104385	104378	104384	104377
EVELUX L 96/310/727 DALI	104182	104183	104190	104188	104187	104194	104195	104184	104196	104193	104186	104192	104185
EVELUX L 96/450/727 DALI	104214	104215	104222	104220	104219	104226	104227	104216	104228	104225	104218	104224	104217
EVELUX L 96/550/727 DALI	104246	104247	104254	104252	104251	104258	104259	104248	104260	104257	104250	104256	104249
EVELUX XS 16/310/730 DALI	x	x	x	x	x	x	x	x	x	x	x	x	x
EVELUX XS 16/450/730 DALI	x	x	x	x	x	x	x	x	x	x	x	x	x
EVELUX XS 16/600/730 DALI	x	x	x	x	x	x	x	x	x	x	x	x	x
EVELUX S 16/310/730 DALI	104806	104807	104814	104812	104811	104818	104819	104808	104820	104817	104810	104816	104809
EVELUX S 24/310/730 DALI	104838	104839	104846	104844	104843	104850	104851	104840	104852	104849	104842	104848	104841
EVELUX S 24/450/730 DALI	104870	104871	104878	104876	104875	104882	104883	104872	104884	104881	104874	104880	104873
EVELUX S 24/600/730 DALI	104902	104903	104910	104908	104907	104914	104915	104904	104916	104913	104906	104912	104905
EVELUX M 32/310/730 DALI	104678	104679	104686	104684	104683	104690	104691	104680	104692	104689	104682	104688	104681
EVELUX M 48/310/730 DALI	104710	104711	104718	104716	104715	104722	104723	104712	104724	104721	104714	104720	104713
EVELUX M 48/450/730 DALI	104742	104743	104750	104748	104747	104754	104755	104744	104756	104753	104746	104752	104745
EVELUX M 48/600/730 DALI	104774	104775	104782	104780	104779	104786	104787	104776	104788	104785	104778	104784	104777
EVELUX L 96/310/730 DALI	104582	104583	104590	104588	104587	104594	104595	104584	104596	104593	104586	104592	104585
EVELUX L 96/450/730 DALI	104614	104615	104622	104620	104619	104626	104627	104616	104628	104625	104618	104624	104617
EVELUX L 96/550/730 DALI	104646	104647	104654	104652	104651	104658	104659	104648	104660	104657	104650	104656	104649

102276 Setting: Midnight function.

Example of type marking: 104782 = EVELUX M 48/600/730 DALI MR1

LEGEND

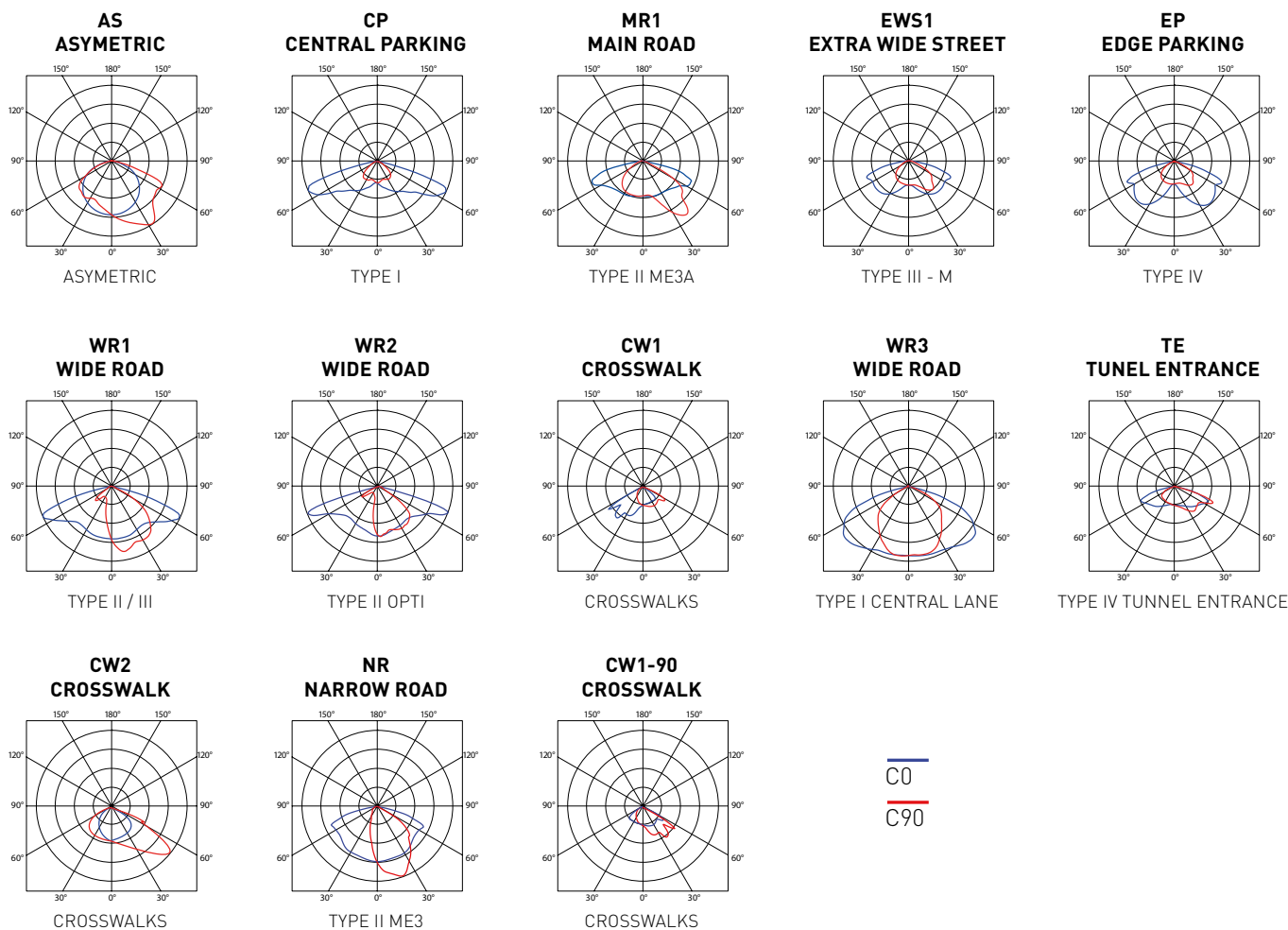
- | | | | | |
|-------------|--|------------|-------------------|---|
| DALI | - version with digital dimmable driver | WR1 | - Wide road | - for sidewalks and residential areas |
| | - DALI Zhaga socket | WR2 | - Wide road | - for sidewalks and driveways |
| AS | - Asymmetric | CW1 | - Crosswalk | - pedestrian crossings or cycle paths |
| CP | - Central parking | WR3 | - Wide road | - for sidewalks and driveways |
| MR1 | - Main road | TE | - Tunnel entrance | - for tunnel, underpasses and buildings entrances |
| EWS1 | - Extra wide street | CW2 | - Crosswalk | - pedestrian crossings or cycle paths |
| EP | - Edge parking | NR | - Narrow road | - local roads |
- Optics with a glare shield on request

LIGHT FITTING ATTACHMENT

- a) Wall-mounted installation using the wall jib
- b) Mast-mounted installation using the pointed jib
- c) Mast-mounted installation using the arched jib
- d) Mast-mounted installation

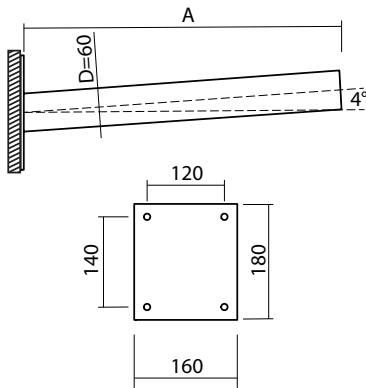


EVELUX - OPTICS



Straight wall jib – UDS type

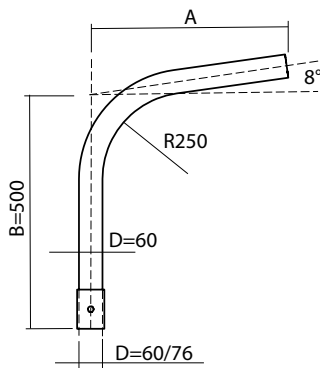
Straight wall jib with mounting flange, hot-dip galvanized, diameter 60mm, lengths ranging from 300mm to 1000mm



Code	Type	A [mm]	Weight [kg]
41964	UDS 1 - 300	300	4
41965	UDS 1 - 500	500	5
41966	UDS 1 - 750	750	6
41967	UDS 1 - 1000	1000	7

Arched set jib – SV type

Arched set jib with mounting sleeve, hot-dip galvanized, for one luminaire, diameters 60mm and 76mm, lengths ranging from 300mm to 1000mm

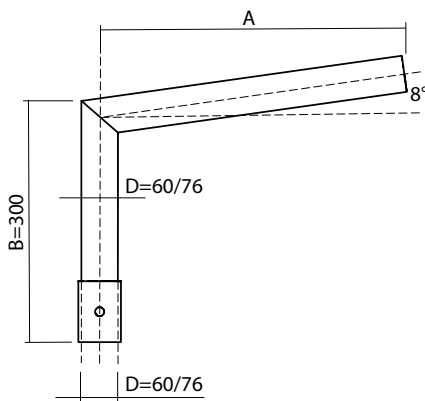


Code	Type	A [mm]	Weight [kg]
41968	SV 1/60 - 300	300	6
41969	SV 1/60 - 500	500	6
41970	SV 1/60 - 750	750	8
41971	SV 1/60 - 1000	1000	10

Code	Type	A [mm]	Weight [kg]
41972	SV 1/76 - 300	300	6
41973	SV 1/76 - 500	500	6
41974	SV 1/76 - 750	750	8
41975	SV 1/76 - 1000	1000	10

Pointed set jib – SK type

Pointed set jib with mounting sleeve, hot-dip galvanized, for one luminaire, diameters 60mm and 76mm, lengths ranging from 300mm to 1000mm



Code	Type	A [mm]	Weight [kg]
41976	SK 1/60 - 300	300	3
41977	SK 1/60 - 500	500	4
41978	SK 1/60 - 750	750	5
41979	SK 1/60 - 1000	1000	6

Code	Type	A [mm]	Weight [kg]
41980	SK 1/76 - 300	300	6
41981	SK 1/76 - 500	500	6
41982	SK 1/76 - 750	750	8
41983	SK 1/76 - 1000	1000	10



EMERGENCY LED



PRIMA LED

BELTR LED

FUTURA

EPIGONI

PRIMA

EMPUSA

PERUN SLIM

ERYX

NYX



PRIMA LED, FUTURA – plastic emergency LED light fitting

PRIMA LED Ex NM
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IP66

PRIMA LED Ex NM
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FUTURA NM
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PRIMA – plastic emergency LED light fitting

PRIMA NM
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IP66

PRIMA NM
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PRIMA NM
ACCESSORIES
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PERUN SLIM – metal emergency LED light fitting

PERUN SLIM Ex NM
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IP65

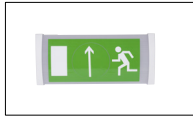
PERUN SLIM Ex NM
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PERUN SLIM Ex NM
ACCESSORIES
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BELTR LED NM – all-plastic emergency LED light fitting

BELTR LED NM
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IP40

BELTR LED NM
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BELTR LED NM
ACCESSORIES
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EPIGONI – all-plastic emergency LED light fitting

EPIGONI
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IP20

EPIGONI
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EPIGONI
ACCESSORIES
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EMPUSA – all-plastic emergency LED light fitting

EMPUSA
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IP20

EMPUSA
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EMPUSA
ACCESSORIES
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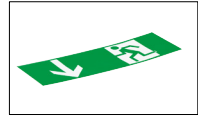
ERYX – all-plastic emergency LED light fitting

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NYX – emergency LED light fitting

NYX
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IP20

IP54

NYX R
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NYX S
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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.

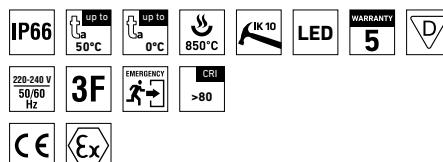
Atmosphere emissions must be considered, as they may reduce the usability of plastics at installation in aggressive environment, see p. 407.

ADVANTAGES

- Light fitting protection **IP66**
- High thermal resistance ranging **from $t_a = 0^\circ\text{C}$ to $t_a = 50^\circ\text{C}$**
- 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 **3h** with battery autotest

- Integrated diode for indication of correct operation
- Low energy consumption in StandBy mode
- Certification: TÜV CY 22 ATEX 0206610 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

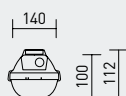
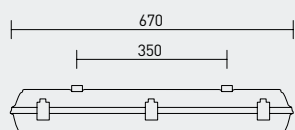


PRIMA LED Ex PCc

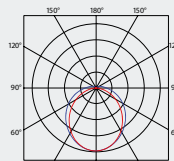


TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: **t_a = 50 °C**
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **440 lm**
- **CRI > 80: 4000 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
- The package includes: stainless hooks and stainless brackets
- The above stated values of power consumption and luminous flux are within a tolerance of $\pm 7,5\%$
- Pictogram: optional accessory



PRIMA LED Ex 1.2ft PC



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 NM3hAt	3	440	7	LiFePO ₄	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	NM3hAt	3F NM3hAt
PRIMA LED Ex 1.2ft PCc ...	111406	x

LEGEND

- NM3hAt** – non-maintained emergency luminaire, operation time 3 hours, with battery autotest
3F NM3hAt – non-maintained emergency luminaire, operation time 3 hours, with battery autotest, 5-wire throughwiring (3F)

The module signaling is listed in the assembly instructions attached to the luminaire and available for download at www.trevo.eu.

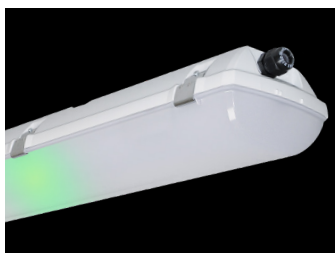
LIGHT FITTING ATTACHMENT

- 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.

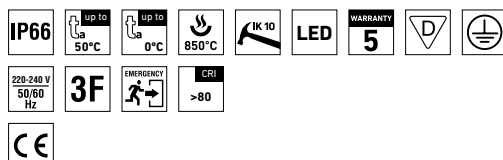
It is recommended for escape routes of interior industrial rooms, storage halls, sports premises, agricultural buildings and laboratories without hazard of explosion of gases, dusts and flammable vapours.

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. 407.

ADVANTAGES

- Light fitting protection **IP66**
- High thermal resistance ranging **from $t_a = 0^\circ\text{C}$ to $t_a = 50^\circ\text{C}$**
- 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 **3h** with battery autotest
- Optional selection of EM kit with battery autotest
- Integrated diode for indication of correct operation
- Battery **LiFePO₄**
- Low energy consumption in StandBy mode

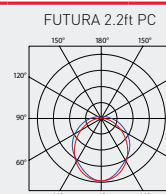
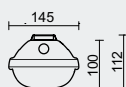
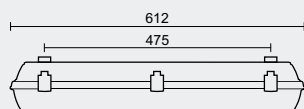


FUTURA PC, PCc



TECHNICAL DESCRIPTION

- Light fitting protection: **IP66**
- Maximum ambient temperature: **t_a = 50 °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: 4000 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**
- Distance holder: polyamide + 10 % glass fibre
- Electric equipment:
EM kit including LiFePO₄ battery with autotest, LED module
- The package includes: stainless hooks and stainless brackets
- 2-year warranty for battery and EM kit (unit + LED module)
- The above stated values of power consumption and luminous flux are within a tolerance of ± 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 with autotest									
FUTURA 2.2ft PC NM3hAt	3	440	3,3	133	LiFePO ₄	0,7	12	3,5	1,4

FUTURA PC with cable glands		Non-maintained emergency luminaire with autotest - cable glands PG 13,5 / 16 - plastic clips	
Type		NM3hAt	3F NM3hAt
FUTURA 2.2ft PC ...		62423	62424

FUTURA PCc with cable glands		Non-maintained emergency luminaire with autotest - cable glands PG 13,5 / 16 - stainless clips (c)	
Type		NM3hAt	3F NM3hAt
FUTURA 2.2ft PCc ...		62443	62444

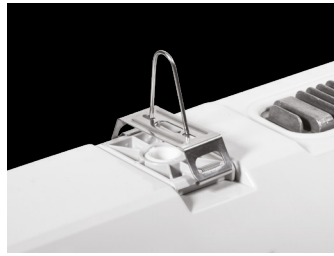
LEGEND

- NM3hAt** – non-maintained emergency luminaire, operation time 3 hours, with battery autotest
- 3F NM3hAt** – non-maintained emergency luminaire, operation time 3 hours, with battery autotest, 5-wire throughwiring (3F)

The module signaling is listed in the assembly instructions attached to the luminaire and available for download at www.trevo.eu.

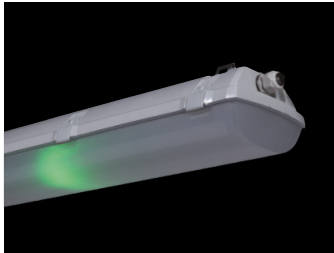
LIGHT FITTING ATTACHMENT

- 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.

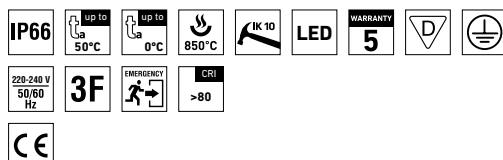
It is recommended for escape routes of interior industrial rooms, storage halls, sports premises, agricultural buildings and laboratories without hazard of explosion of gases, dusts and flammable vapours.

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. 407.

ADVANTAGES

- Light fitting protection **IP66**
- High thermal resistance ranging **from $t_a = 0^\circ\text{C}$ to $t_a = 50^\circ\text{C}$**
- 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 **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 °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: 4000 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 LiFePO₄ battery with autotest, LED module**
- The package includes: stainless hooks and stainless brackets
- 2-year warranty for battery and EM kit (unit + LED module)
- The above stated values of power consumption and luminous flux are within a tolerance of ± 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 with autotest									
PRIMA 1.2ft PC NM3hAt	1	440	3,3	133	LiFePO ₄	0,7	12	3,5	1,2

PRIMA PC with cable glands	Non-maintained emergency luminaire with autotest - cable glands PG 13,5 - plastic clips	
Type	NM3hAt	3F NM3hAt
PRIMA 1.2ft PC ...	106618	106620

PRIMA PCc with cable glands	Non-maintained emergency luminaire with autotest - cable glands PG 13,5 - stainless clips (c)	
Type	NM3hAt	3F NM3hAt
PRIMA 1.2ft PCc ...	106622	106624

LEGEND

- NM3hAt** – non-maintained emergency luminaire, operation time 3 hours, with battery autotest
- 3F NM3hAt** – non-maintained emergency luminaire, operation time 3 hours, with battery autotest, 5-wire throughwiring [3F]

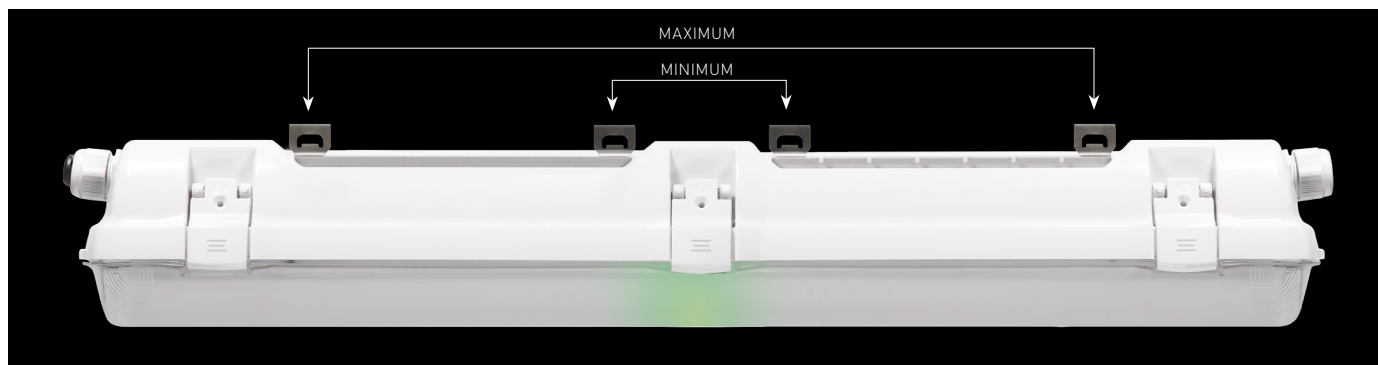
The module signaling is listed in the assembly instructions attached to the luminaire and available for download at www.trevos.eu.

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



... 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.

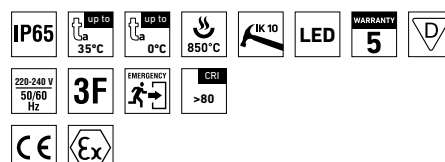
Characteristics of the used tempered glass and its shattering power are controlled by the EN 12150-1 standard. For applications where spontaneous fracture means a higher safety risk.

ADVANTAGES

- Light fitting protection **IP65**
- High thermal resistance ranging **from $t_a = 0^\circ\text{C}$ to $t_a = 35^\circ\text{C}$**
- 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** with battery autotest
- 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

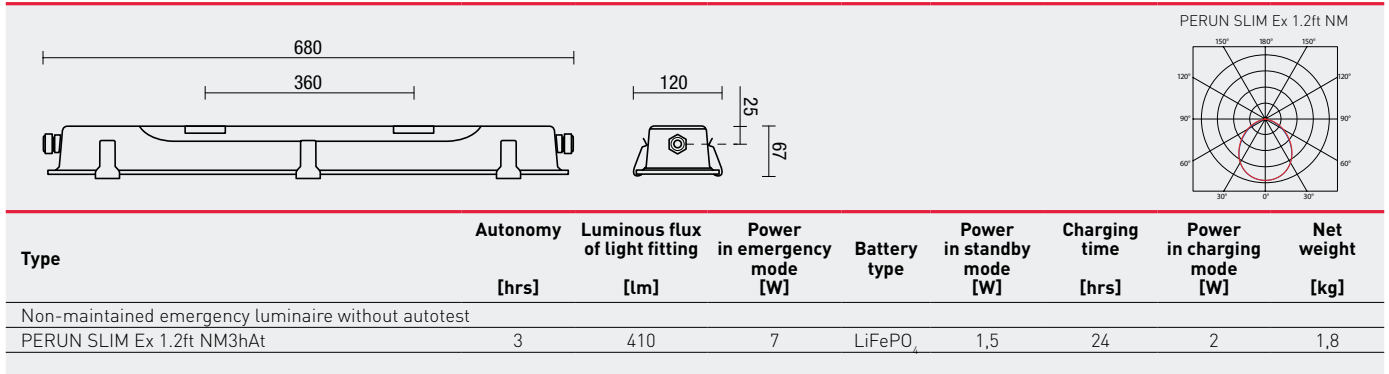


PERUN SLIM Ex NM



TECHNICAL DESCRIPTION

- Light fitting protection: **IP65**
- Maximum ambient temperature: **t_a = 35 °C**
- LED module lifetime: 50 000 hours / L80B20
- Luminous flux of the light fitting: **410 lm**
- **CRI > 80: 4000 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
- The package includes: stainless hooks and stainless brackets
- 2-year warranty for battery and EM kit (unit + LED module)
- The above stated values of power consumption and luminous flux are within a tolerance of ± 7,5 %
- Pictogram: optional accessory



PERUN SLIM Ex NM with cable glands

Non-maintained emergency luminaire without autotest - cable glands M20x1,5

Type	NM3hAt	3F NM3hAt
PERUN SLIM Ex 1.2ft ...	111408	x

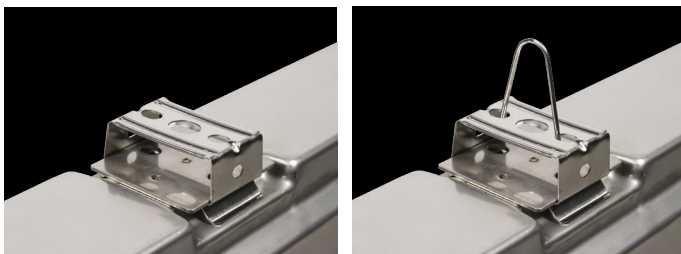
LEGEND

- NM3hAt** – non-maintained emergency luminaire, operation time 3 hours, with battery autotest
- 3F NM3hAt** – non-maintained emergency luminaire, operation time 3 hours, with battery autotest, 5-wire throughwiring (3F)

The module signaling is listed in the assembly instructions attached to the luminaire and available for download at www.trevo.eu.

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

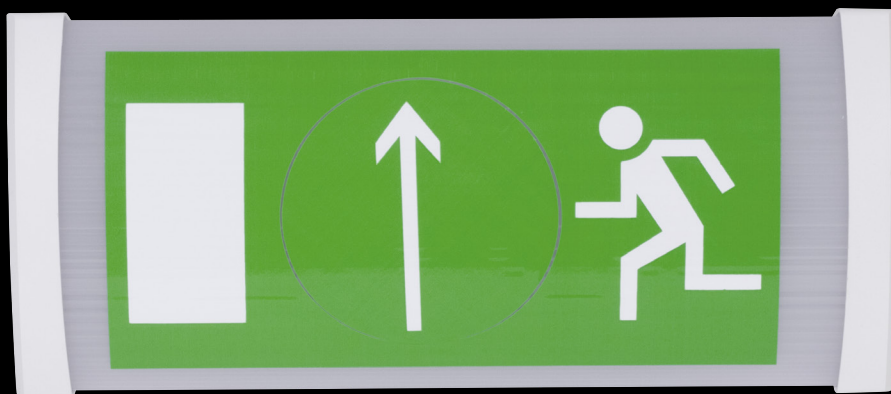


LIGHT FITTING DETAILED VIEW

PERUN SLIM Ex NM



BELTR LED NM



... emergency and orientation.

USE

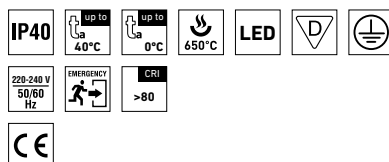
The light fitting is suitable for emergency and orientation illumination of hallways, offices, warehouses.

Non-maintained emergency luminaire for escape routes, available for use in high ambient temperature, $t_a = 40^\circ\text{C}$.

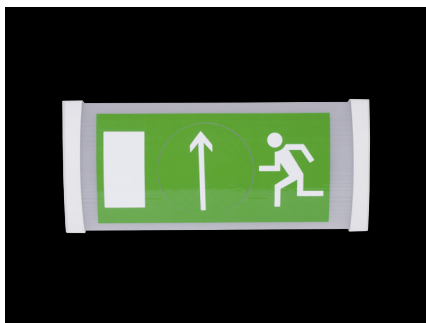
Atmosphere emissions must be considered, as they may reduce the usability of plastics at installation in aggressive environment, see p. 407.

ADVANTAGES

- Light fitting protection **IP40**
- High thermal resistance ranging from $t_a = 0^\circ\text{C}$ to $t_a = 40^\circ\text{C}$
- 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 **3h**
- Optional selection of EM kit with battery autotest
- Integrated diode for indication of correct operation
- Battery type **LiFePO₄**
- Low energy consumption in StandBy mode

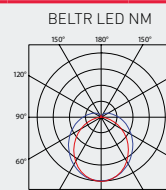


BELTR LED NM, NMA_t



TECHNICAL DESCRIPTION

- Recognizing distance: 25 m
- Light fitting protection: **IP40**
- Maximum ambient temperature: **t_a = 40 °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: 4000 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 LiFePO₄ battery with autotest, LED module**
- 2-year warranty for battery and EM kit (unit + LED module)
- The above stated values of power consumption and luminous flux are within a tolerance of ± 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 with autotest									
BELTR LED 2.1ft NM3hAt	3	440	3,3	135	LiFePO ₄	0,7	12	3,5	1,4

BELTR LED NMA _t	Non-maintained emergency luminaire with autotest
Type	NM3hAt
BELTR LED 2.1ft NMA _t	54540

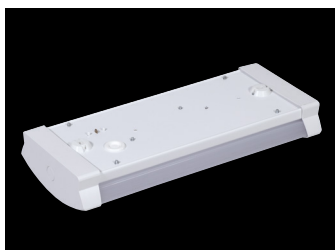
LEGEND

NM3hAt – non-maintained emergency luminaire, operation time 3 hours, with battery autotest

The module signaling is listed in the assembly instructions attached to the luminaire and available for download at www.trevo.eu.

LIGHT FITTING ATTACHMENT

Directly to a ceiling or a wall with the use of screws



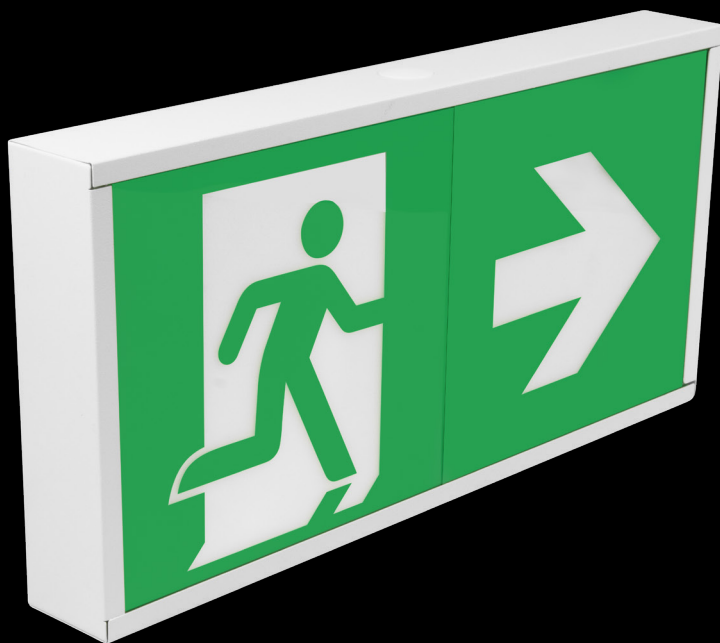
LIGHT FITTING DETAILED VIEW

BELTR LED NM, NMA_t



EPIGONI

NEW



... emergency and orientation.

USE

Wall-mounted stand-alone luminaire for both permanent and emergency marking of escape routes and determining the direction of escape and facilitating their quick recognition and use. A key element of security systems in public and private areas. Its main purpose is to provide a visibly marked escape route in the event of a power outage and to prevent panic. Safely and efficiently evacuate the area.

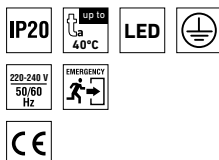
There is a separate LED source on the bottom side of the luminaire which illuminates the area under the luminaire. The luminaire can be used to highlight a location according to EN 1838 including the requirement for locations with an illumination of 5lx.

USES:

Public buildings, office buildings and shopping centres, industrial buildings, medical facilities, residential buildings.

ADVANTAGES

- Emergency module 3hrs
- LiFePO4 battery with autotest (M3hAt) or DALI (M3hDA)
- Status LED indicator of correct operation
- Electronic protection against complete discharge, overcharge and temperature management
- Possible connection for both permanent (SA) and emergency (SE) lighting
- Degree of protection **IP20**
- High temperature resistance ranging from $t_a = 0^\circ\text{C}$ to $t_a = 40^\circ\text{C}$
- Insulation: Class I

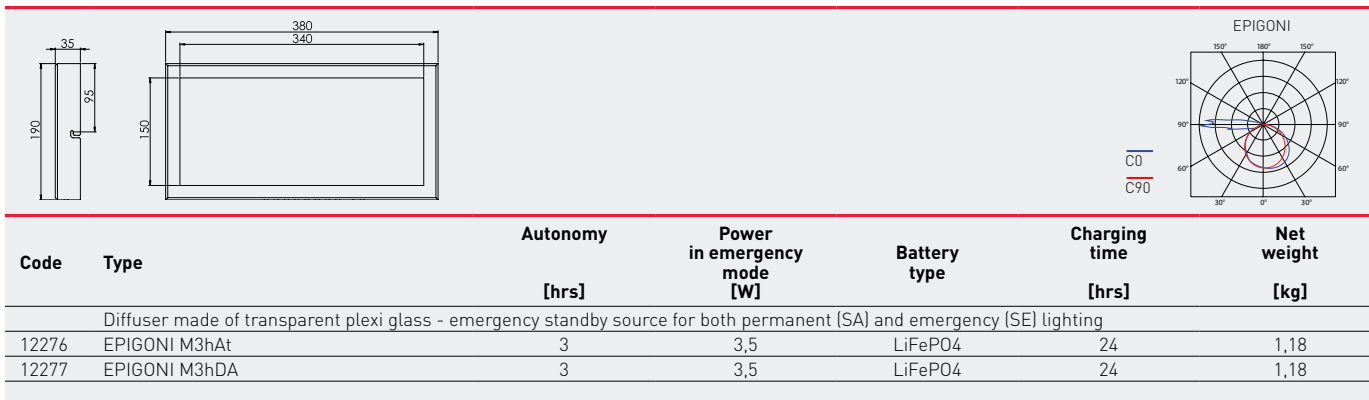


EPIGONI



TECHNICAL DESCRIPTION

- Recognizing distance: 30 m
- Degree of protection: IP20
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Charging: max. 24 hrs
- CRI > 80: 6500 K
- Electric equipment: emergency module 3 hrs
- Emergency luminous flux: 80 lm
- Diffuser: transparent plexi glass, UV stable
- Body: steel sheet, white
- Pictogram: accessory



LEGEND

- M3hAt** – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination with autotest
- M3hDA** – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination with DALI

LIGHT FITTING DETAILED VIEW

EPIGONI



EMPUSA

NEW



... emergency and orientation.

USE

Stand-alone luminaire for both permanent or emergency marking of escape routes and determining the direction of escape and facilitating their quick recognition and use. A key element of security systems in public and private areas. Its main purpose is to provide a visibly marked escape route in the event of a power outage and to prevent panic. Safely and efficiently evacuate the area.

The wide range of accessories included in the package allows for five different fixing methods:

- Hanging luminaire
- Ceiling luminaire
- Wall luminaire (longitudinal / transverse mounting)
- Recessed luminaire

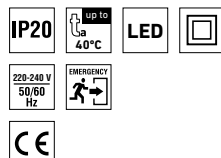
USES:

Public buildings, office buildings and shopping centers, industrial buildings, medical facilities, apartment buildings.

ADVANTAGES

- Emergency module 3 hrs
- LiFePO4 battery with autotest (M3hAt) or DALI (M3hDA)
- Status LED indicator of correct operation
- Electronic protection against complete discharge, overcharge and temperature management
- Possible connection for both permanent (SA) and emergency (SE) lighting

- Degree of protection **IP20**
- High temperature resistance ranging from $t_a = 0^\circ\text{C}$ to $t_a = 40^\circ\text{C}$
- Insulation: Class II

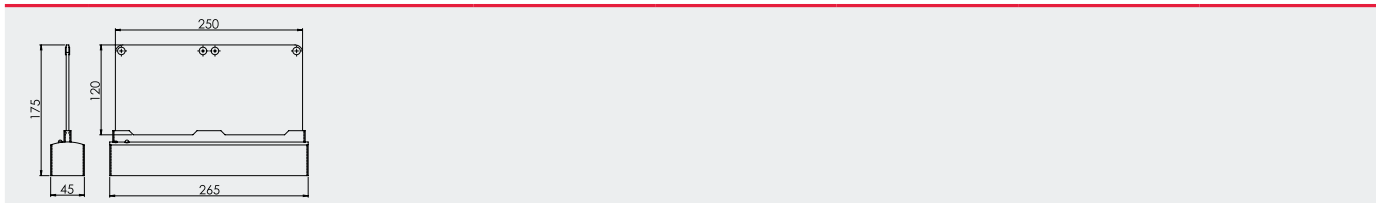


EMPUSA



TECHNICAL DESCRIPTION

- Recognizing distance: 24 m
- Degree of protection: IP20
- Maximum ambient temperature: $t_a = 40^\circ\text{C}$
- Charging: max. 24 hrs
- CRI > 80: 6500 K
- Electric equipment: emergency module 3 hrs
- Emergency luminous flux: 50 lm
- Diffuser: transparent plexi glass, UV stable
- Body: polycarbonate, white
- Pictogram: universal accessory



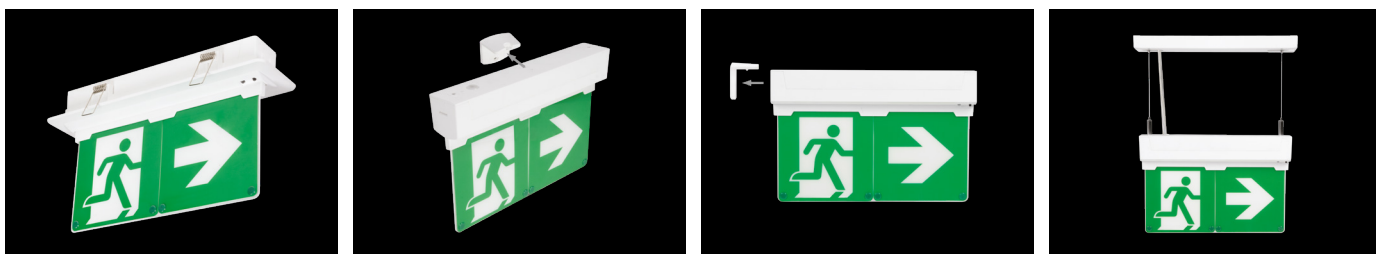
Code	Type	Autonomy [hrs]	Power in emergency mode [W]	Battery type	Charging time [hrs]	Net weight [kg]
Diffuser made of transparent plexi glass - emergency standby source for both permanent (SA) and emergency (SE) lighting						
12274	EMPUSA M3hAt	3	3	LiFePO4	24	0,85
12275	EMPUSA M3hDA	3	5	LiFePO4	24	0,85

LEGEND

- M3hAt** – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination with autotest
M3hDA – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination with DALI

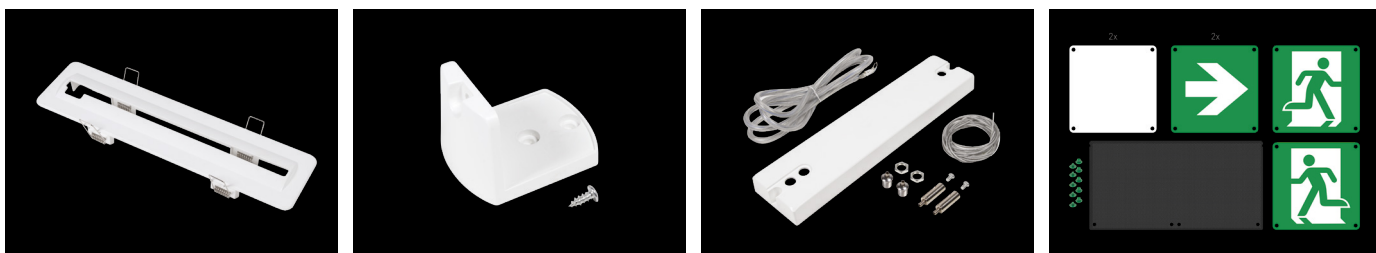
LIGHT FITTING ATTACHMENT

- Directly to a ceiling (2x dowel and 2x screw)
- Recessed into plasterboard lower ceilings
- Longitudinal wall mounting
- Transverse wall mounting
- Suspension mounting



LIGHT FITTING DETAILED VIEW

included in the basic package





... emergency and orientation.

USE

Ceiling-mounted, wall-mounted, self-contained luminaire for both permanent and emergency marking of escape routes and for determining the direction of escape and facilitating their rapid recognition and use. A key element of security systems in public and private areas. Its main purpose is to provide a visibly marked escape route in the event of a power failure and to prevent panic. Safely and efficiently evacuate the area.

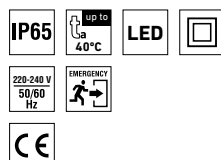
A stand-alone emergency luminaire suitable for anti-panic lighting of an area or for highlighting a location according to EN 1838 including the requirement for locations with an illumination of 5lx.

USES:

Public buildings, office buildings and shopping centers, industrial buildings, medical facilities, apartment buildings.

ADVANTAGES

- Emergency module 3 hrs
- LiFePO4 battery with autotest (M3hAt) or DALI (M3hDA)
- Status LED indicator of correct operation
- Electronic protection against complete discharge, overcharge and temperature management
- Possible connection for both permanent (SA) and emergency (SE) lighting
- Degree of protection **IP65**
- High temperature resistance ranging from $t_a = 0^\circ\text{C}$ to $t_a = 40^\circ\text{C}$
- Insulation: Class II

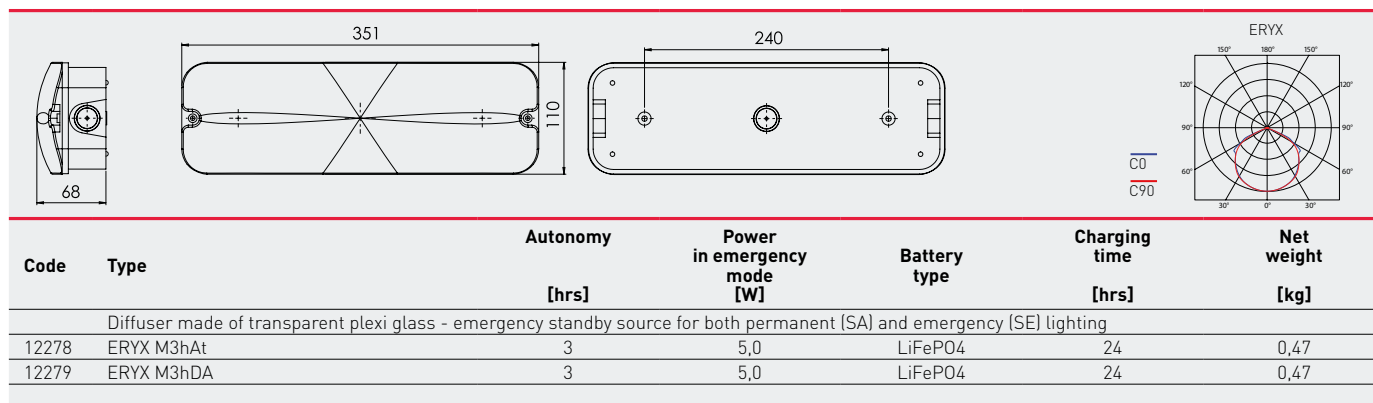


ERYX



TECHNICAL DESCRIPTION

- Recognizing distance: 18 m
- Degree of protection: IP65
- Maximum ambient temperature: $t_a = 40\text{ }^\circ\text{C}$
- Charging: max. 24 hrs
- CRI > 80: 6500 K
- Electric equipment: emergency module 3 hrs
- Emergency luminous flux: 50 lm / 160 lm
- Diffuser: transparent plexi glass, UV stable
- Body: polycarbonate, white
- Pictogram: accessory



LEGEND

- M3hAt** – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination with autotest
- M3hDA** – emergency back-up source with operating time of 3 hours (SA) for both permanent and emergency illumination with DALI

LIGHT FITTING DETAILED VIEW

ERYX





... emergency, surface or recessed.

USE

Surface or recessed stand-alone luminaire for emergency lighting of escape routes and anti-panic emergency lighting of premises.

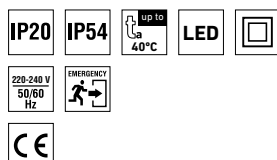
The luminaire is suitable for anti-panic lighting of the area or for highlighting the place according to EN 1838 including the requirement for locations with an illumination of 5lx.

USES:

Public buildings, office buildings and shopping centres, industrial buildings, medical facilities, residential buildings.

ADVANTAGES

- Emergency module 3 hrs
- LiFePO4 battery with autotest (M3hAt) or DALI (M3hDA)
- Status LED indicator of correct operation
- Electronic protection against complete discharge, overcharge and temperature management
- Possible connection for emergency (SE) lighting
- Degree of protection **IP20, IP54**
- High temperature resistance ranging from $t_a = 0\text{ }^{\circ}\text{C}$ to $t_a = 40\text{ }^{\circ}\text{C}$
- Insulation: Class II

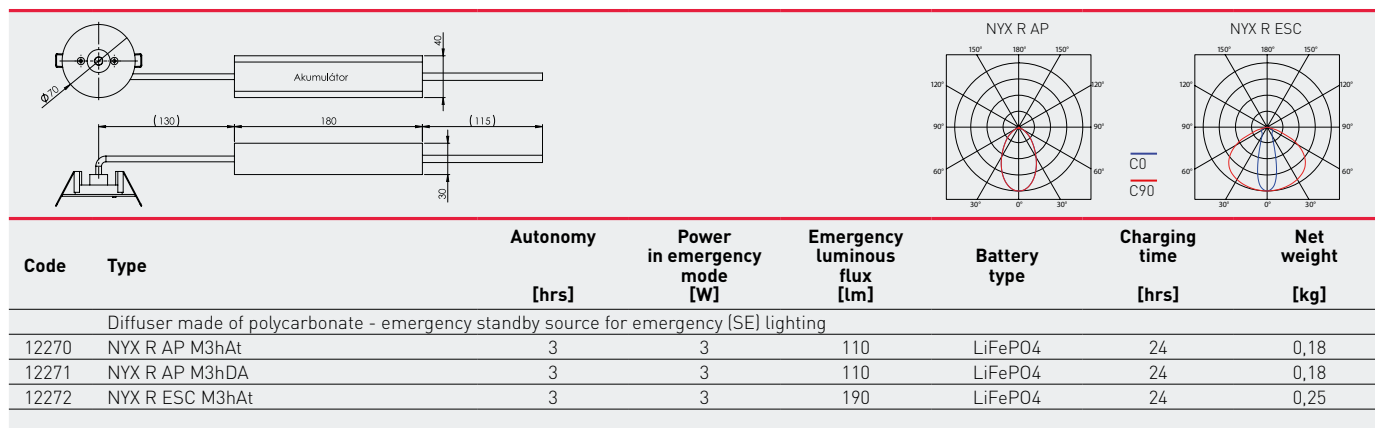


NYX R FOR RECESSED MOUNTING



TECHNICAL DESCRIPTION

- Degree of protection: IP20
- Maximum ambient temperature: $t_a = 40\text{ }^\circ\text{C}$
- Charging: max. 24 hrs
- CRI > 80: 6000 K
- Electric equipment: emergency set 3hrs with battery autotest
- Diffuser: polycarbonate, UV stable
- Body: polycarbonate, white



LEGEND

- NYX R** - luminaire for recessed mounting
- AP** - wide-angle symmetrical optics for antipanic space illumination
- ESC** - elliptical optics for illuminating the escape route with 1 lx on its axis
- M3hAt** - emergency back-up source with operating time of 3 hours for emergency illumination with autotest
- M3hDA** - emergency back-up source with operating time of 3 hours for emergency illumination with DALI-2

LIGHT FITTING DETAILED VIEW

NYX R

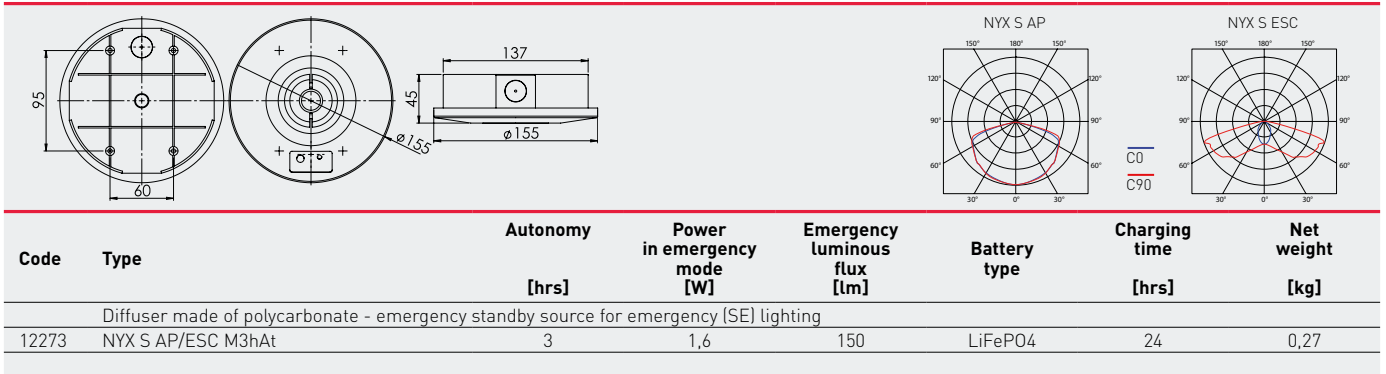


NYX S FOR SURFACE MOUNTING



TECHNICAL DESCRIPTION

- Degree of protection: IP54
- Maximum ambient temperature: $t_a = 40\text{ }^\circ\text{C}$
- Charging: max. 24 hrs
- CRI > 80: 6000 K
- Electric equipment: emergency set 3hrs with battery autotest
- Diffuser: polycarbonate, UV stable
- Body: polycarbonate, white



LEGEND

- NYX S** - luminaire for surface mounting
- AP** - wide-angle symmetrical optics for antipanic space illumination
- ESC** - elliptical optics for illuminating the escape route with 1 lx on its axis
- M3hAt** - emergency back-up source with operating time of 3 hours for emergency illumination with autotest

LIGHT FITTING DETAILED VIEW

NYX S

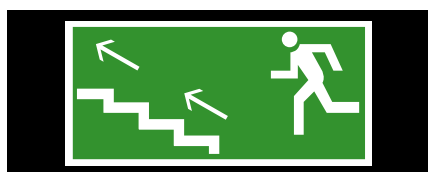


Stickers with pictograms for emergency light fittings

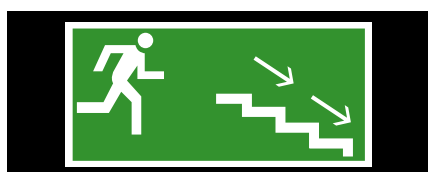

Code	Type	Description
20502	Pictogram21 EM	for EMPUSA - 24m distance
20503	Pictogram21 EP	for EPIGONI - 30m distance
20504	Pictogram21 ER	for ERYX - 18m distance for PRIMA NM, FUTURA NM, PERUN SLIM Ex, PRIMA LED Ex, BELTR LED NM



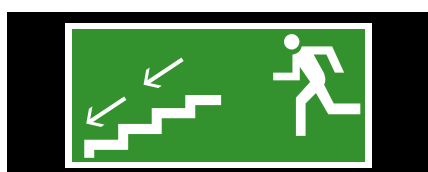
Code	Type	Description
20505	Pictogram22 EM	for EMPUSA - 24m distance
20506	Pictogram22 EP	for EPIGONI - 30m distance
20507	Pictogram22 ER	for ERYX - 18m distance for PRIMA NM, FUTURA NM, PERUN SLIM Ex, PRIMA LED Ex, BELTR LED NM



Code	Type	Description
20530	Pictogram23 EM	for EMPUSA - 24m distance
20531	Pictogram23 EP	for EPIGONI - 30m distance
20532	Pictogram23 ER	for ERYX - 18m distance for PRIMA NM, FUTURA NM, PERUN SLIM Ex, PRIMA LED Ex, BELTR LED NM



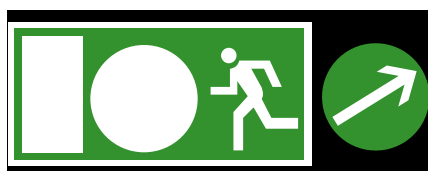
Code	Type	Description
20533	Pictogram24 EM	for EMPUSA - 24m distance
20534	Pictogram24 EP	for EPIGONI - 30m distance
20535	Pictogram24 ER	for ERYX - 18m distance for PRIMA NM, FUTURA NM, PERUN SLIM Ex, PRIMA LED Ex, BELTR LED NM



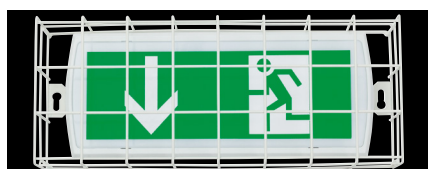
Code	Type	Description
20536	Pictogram25 EM	for EMPUSA - 24m distance
20537	Pictogram25 EP	for EPIGONI - 30m distance
20538	Pictogram25 ER	for ERYX - 18m distance for PRIMA NM, FUTURA NM, PERUN SLIM Ex, PRIMA LED Ex, BELTR LED NM



Code	Type	Description
20570	Pictogram26 EM	for EMPUSA - 24m distance
20571	Pictogram26 EP	for EPIGONI - 30m distance
20572	Pictogram26 ER	for ERYX - 18m distance for PRIMA NM, FUTURA NM, PERUN SLIM Ex, PRIMA LED Ex, BELTR LED NM



Code	Type	Description
20573	Pictogram27 EM	for EMPUSA - 24m distance
20574	Pictogram27 EP	for EPIGONI - 30m distance
20575	Pictogram27 ER	for ERYX - 18m distance for PRIMA NM, FUTURA NM, PERUN SLIM Ex, PRIMA LED Ex, BELTR LED NM

Protective grid


Code	Type	Description	Weight [kg]
43900	OM-ER	protective grid for ERYX	0.4

LIGHTING MANAGEMENT



MANAGEMENT
FOR SIMPLE AND LARGE
LIGHTING SYSTEMS
CORRIDOR FUNCTION



LIGHTING MANAGEMENT

Our advanced lighting management system introduces a new trend in intelligent illumination, taking the benefits of LED technology to the next level. It enables easy operation and the creation of customized lighting scenes, making it ideal for both simple and complex applications in offices, corridors, and halls. This system offers multiple control options, including daylight intensity adjustment, occupancy-based lighting, tunable white, and RGB settings.

DALleco

DALleco is a lighting control system designed for straightforward installations.

Applications:

- offices
- showrooms
- conference rooms
- corridors
- classrooms



DALleco CONTROL

Benefits:

- two DALI circuits (each supporting up to 16 luminaires connected to each DALI circuit)
- connection of up to 4 light sensors
- control via a standard button or IR remote
- compact size (suitable for integration into luminaires)
- replacement for Touch DIM in problematic installations
- simplified setup with predefined operating modes
- CORRIDOR function setting option

DALleco LS/PD LI

- adjusts lighting based on daylight intensity and occupancy
- available for recessed or surface-mounted installation



DALleco REMOTE

- remote control for configuring and switching the lighting control system



DALI Rotary controller

- enables simple, independent dimming via the DALI protocol
- requires external DALI power supply (compliant with ČSN EN 62386) – for example DALI PS3 (supports up to 27 luminaires)
- up to five potentiometers can be connected in parallel

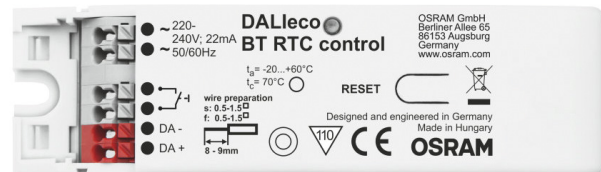


DALIeco BT RTC

DALIeco BT RTC is a lighting control system designed for straightforward installations.

Applications:

- offices
- showrooms
- corridors
- training rooms



DALIeco BT RTC

Benefits:

- controls up to 32 luminaires
- full support for Tunable White (Device Type 8)
- built-in clock for schedules + Human-Centric Lighting with up to 24 points
- control via mobile app or standard button
- supports up to 4 independently controlled groups – easily create lighting scenes in the app (Android & iOS)
- compact size (suitable for integration into luminaires)
- up to 4 sensors and 4 buttons

Components for DALIeco BT RTC:

DALIeco LS/PD CI G2

- adjusts lighting based on daylight intensity and occupancy
- available for recessed or surface-mounted installation



basicDIM Wireless (CASAMBI)

The basicDIM Wireless system is ideal for straightforward and medium-sized installations where maintaining wiring is required (alongside lighting control requirement).

Applications:

- offices
- showrooms
- conference rooms
- restaurants

Benefits:

- automatic creation of a wireless network with up to 250 units
- control and configuration via a mobile app
- wireless connection of luminaires through the app
- no need for an external gateway
- easy firmware updates

Components for basicDIM Wireless:

basicDIM Wireless Module G2

- transforms a luminaire into a wireless-controlled unit simply by integrating the module



basicDIM Wireless Sensor 5DP 38rc

- adjusts lighting based on daylight intensity and occupancy
- mains-powered
- available with surface-mounted or recessed installation accessories
- adjustable shutters to limit motion detection
- perfect for installation height not exceeding 4 m



basicDIM Wireless User Interface

- battery-powered wall controller
- save and recall up to 4 lighting scenes
- dimming and CCT adjustment options



sceneCOM S

The sceneCOM S system is a versatile lighting control solution suitable for most installations.

Applications:

- offices
- restaurants
- assembly and industrial halls
- warehouses
- sales areas

Benefits:

- controls up to 64 luminaires
- DALI-2 certified device
- compact size – fits under a wall switch
- easy addressing via mobile app
- schedule programming capabilities
- full support for Tunable White (Device Type 8)
- create up to 16 groups and store 16 scenes
- 4 independent button inputs
- powered via DALI



sceneCOM S Controller

Components for sceneCOM S:

DALI XC G3 CWM 30 DA2

- 4 independent programmable inputs
- installation under a wall switch



DALI PS3

- powered via DALI-2 (70 mA)
- compact size



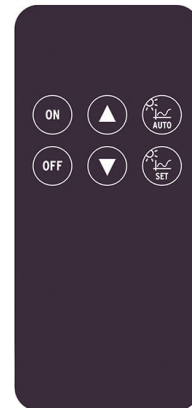
MSensor G3 PIR 10DPI WH

- ambient light monitoring & motion detection
- available with surface-mounted or recessed installation accessories
- placement height options: up to 5 m, 10 m, or 16 m, depending on the sensor type



REMOTECONTROL IR6

- infrared remote control



SceneCOM EVO DA2

SceneCOM EVO DA2 is a system designed primarily for large-scale installations.

Applications:

- offices
- restaurants
- assembly and industrial halls
- warehouses
- sales areas

Benefits:

- 3 DALI circuits, each controlling up to 64 luminaires
- 16 groups & 16 scenes per DALI circuit
- easy DIN rail installation
- web-based configuration
- plug & Play setup – ready to use immediately



SceneCOM EVO DA2

Components for DALI PROFESSIONAL:

DALI HIGH BAY ADAPTER

- Integrated lighting sensor
- Lighting control for heights of up to 13 m
- Direct DALI connection



HIGH BAY

- Up to 35% energy savings (vs. manual switching)
- Motion sensor with switching contact
Adjustable switch-off delay (30 sec – 20 min)



PIR and SNS Sensors

PIR - (Passive Infrared) sensor does not emit signals but detects motion by sensing variations in IR light radiating from objects in its field of view. It measures temperature changes in a space. PIR sensors are commonly used to detect the movement of people or animals. All objects with a temperature above absolute zero emit heat energy that can be detected by a PIR sensor. This means that the sensor does not detect direct movement but rather changes in the intensity and distribution of IR light radiation caused by an object's motion.

PIR sensor is more sensitive than a microwave sensor, allowing it to monitor even slight movements, such as a sitting person, more effectively. This reduces the need for constant motion to keep the light on, leading to less frequent switching and a longer service life. It senses motion only within the designated area, ignoring activity in adjacent zone, thereby effectively reducing energy consumption for lighting.

SNS - is a luminaire equipped with a microwave sensor (HF) that emits microwave signals and detects changes in the field caused by moving objects. The sensor can detect movement through walls and opaque materials. Proper installation is essential for optimal performance. Additionally, the sensor can be integrated directly into the luminaire.

12280 HF sensor UC17

- frequency: 5.8 GHz
- radiated power: 0.2 mW
- customizable sensitivity based on ambient light: OFF – 2 – 10 – 50 lux
- configuration via DIP switch
- load: 400/800 W
- max. height: 6 m
- detection area diameter: 10 m / 3 m height
- detection angle: 30° – 150°
- Degree of protection: IP20



12283 PIR sensor HC049S

- On/Off motion sensor
- configuration via the HRC-11 Remote Control
- customizable sensitivity based on ambient light: OFF – 2 – 10 – 50 – 100 – 300 – 500 lux
- load: 400/800 W
- max. height: 12 m
- detection area diameter: 10 m
- Degree of protection: IP65
- insulation Class II



12284 PIR sensor HCD049

- DALI motion sensor
- configuration via the HRC-11 Remote Control
- customizable sensitivity based on ambient light: OFF – 2 – 10 – 50 – 100 – 300 – 500 lux
- load: 400/800 W
- max. height: 12 m
- detection area diameter: 10 m
- Degree of protection: IP65
- insulation Class II



12281 HF sensor UC06

- frequency: 5.8 GHz
- radiated power: 0.2 mW
- customizable sensitivity based on ambient light: OFF – 2 – 10 – 25 – 50 lux
- configuration via DIP switch
- load: 400/800 W
- max. height: 5 m
- detection area: 10 m
- Degree of protection: IP20



12282 HF sensor HC005S/BT

- frequency: 5.8 GHz
- radiated power: 0.2 mW
- configuration via Bluetooth using the Koolmesh app
- customizable sensitivity based on ambient light: OFF – 30 up to 1000 lx
- load: 300/400 W
- max. height: 6 m
- detection area diameter: 10 m / 3 m height
- detection angle: 30° – 150°
- Degree of protection: IP20



12288 HF sensor DALI HCD405/BT

- frequency: 5.8 GHz
- radiated power: 0.2 mW
- configuration via Bluetooth using the Koolmesh app
- customizable sensitivity based on ambient light: OFF – 30 up to 1000 lx
- DALI option (30 mA source for up to 15 luminaires)
- max. height: 6 m
- detection area diameter: 10 m / 3 m height
- detection angle: 30° – 150°
- Degree of protection: IP20



12285 HRC-11 Remote Control for PIR

- for configuration of PIR sensors
- for HC049S and HCD049
- powered by 2 AAA batteries



Standalone emergency units

12286 ANI03-30/ST

- built-in emergency unit: 3 W, 3 hours
- electronic protection against deep discharge, overcharge, and temperature management
- for permanent or non-permanent emergency lighting
- self-test according to EN 62034
- LiFePO4 18650 battery, 3.2 V, 3600 mAh
- supply voltage: 220–240 V, 50/60 Hz
- output voltage: 30–300 V
- rating: IP20
- Bi-colour LED indicator, control button



12287 ANI03-30/DA

- built-in emergency unit: 3 W, 3 hours
- electronic protection against deep discharge, overcharge, and temperature management
- for permanent or non-permanent emergency lighting
- DALI interface according to EN 62386-101, -102, -202
- LiFePO4 18650 battery, 6.4 V, 2000 mAh
- supply voltage: 220–240 V, 50/60 Hz
- output voltage: 30–300 V
- rating: IP20
- Bi-colour LED indicator



VO Control - Components for VO luminaires equipped with a Zhaga connector:

PCell SSI 31 PC DA2 SA

- ambient light monitoring range: 0.2 to 20000 lux
- mounting options: from above or below the luminaire
- DALI 2



PSensor SSI 31 2xPIR 8DP DG

- monitors ambient lighting and presence of people
- 2x built-in PIR sensors
- ambient temperature measurement
- suitable for detecting vehicle movement as well



Zhaga Connector Housing



CIS 30 RF868 DA2

- low-power communication unit, frequency: 686 MHz
- supports networks with up to 300 units
- ambient light monitoring



CIS 30 GPS RF868 DA2

- low-power communication unit, frequency: 686 MHz
- supports networks with up to 300 units
- ambient light monitoring
- includes GPS module





ORIENTATIONAL CHART OF ARRANGEMENT OF EMERGENCY LIGHT FITTINGS

Installation height [m]	NANOTTICA					FUTURA				
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

Installation height [m]	PRIMA					ALUMAX LED				
2,0	4,1	10,2	9,6	9,1	3,7	3,1	6,7	7,3	7,7	3,4
2,5	4,4	11,1	10,6	10,0	4,0	3,4	8,3	9,0	9,4	4,0
3,0	4,7	11,9	11,4	10,8	4,3	3,7	9,1	9,8	10,3	4,3
3,5	4,9	12,6	12,0	11,5	4,5	4,0	9,8	10,5	11,2	4,6
4,0	5,1	13,2	12,6	12,0	4,7	4,1	10,4	11,2	11,9	4,7
5,0	5,2	14,0	13,5	12,9	4,9	4,6	11,2	12,1	12,8	5,2
6,0	5,2	14,6	14,0	13,5	4,9	4,8	12,1	13,1	13,7	5,4

Installation height [m]	PERUN SLIM					CANOPUS				
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

Installation height [m]	NAOS MPR					NAOS				
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

Installation height [m]	LINEA Square					LINEA Round				
2,0	3,8	9,5	9,5	9,5	3,8	3,8	9,5	9,5	9,5	3,8
2,0	4,2	10,4	10,4	10,4	4,2	4,0	10,4	10,4	10,4	4,0
3,0	4,3	11,2	11,1	11,1	4,3	4,3	11,1	11,1	11,1	4,3
3,0	4,5	11,8	11,8	11,7	4,5	4,5	11,7	11,7	11,7	4,5
4,0	4,6	12,3	12,3	12,3	4,6	4,6	12,2	12,2	12,2	4,6

Installation height [m]	LINEA					BELTR LED				
2,0	3,4	9,0	8,4	7,7	3,0	3,4	8,5	8,3	7,8	3,2
2,5	3,7	9,7	9,0	8,3	3,3	3,7	9,3	9,1	8,7	3,4
3,0	3,8	10,2	9,6	8,9	3,3	3,8	10,0	9,8	9,3	3,7
3,5	3,8	10,7	10,0	9,3	3,3	4,0	10,5	10,3	9,8	3,7
4,0	3,8	10,9	10,2	9,5	3,4	4,1	11,0	10,8	10,3	3,8

Installation height [m]	MO SLIM					TAURI				
2,0	4,0	9,8	8,7	7,7	3,2	4,25	10,74	9,93	9,15	3,77
2,5	4,2	10,6	9,6	8,5	3,5	4,55	11,59	10,80	10,04	4,07
3,0	4,5	11,4	10,3	9,3	3,8	4,77	12,29	11,52	10,78	4,31
3,5	4,7	12,0	11,0	10,0	4,0	4,92	12,86	12,11	11,39	4,48
4,0	4,8	12,5	11,5	10,5	4,2	5,03	13,33	12,60	11,89	4,59

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

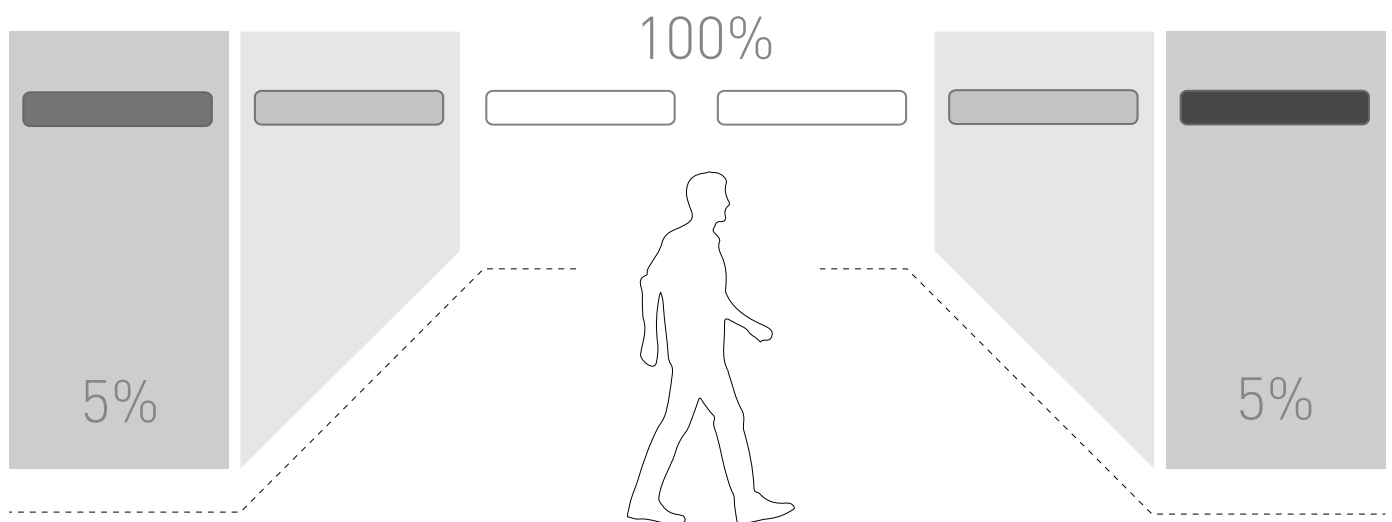
CORRIDOR FUNCTION



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

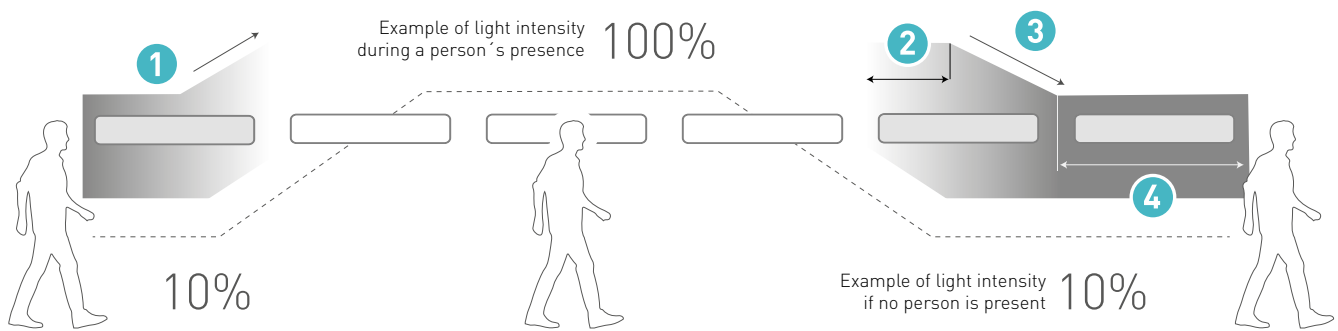
possible to control a single fixture or an entire set of luminaires. Light intensity increases when a person enters the room. When the person has left, the motion detector is set to turn off with a delay, resulting in an automatic reduction of light intensity.



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.

HF UC17 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	
I	ON	ON	100%
II	ON	-	75%
III	-	ON	50%
IV	-	-	10%

Activation time

	3	4	
I	ON	ON	5s
II	ON	-	90s
III	-	ON	5min
IV	-	-	15min

Daylight threshold

	5	6	
I	ON	ON	*Disabled
II	ON	-	50 lux
III	-	ON	10 lux
IV	-	-	2 lux

*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	Shot light 79	Warm white					White				Daylight			Horti-cultural 54
		29	827	927	830	930	25	33	840	940	950	865	965	
Light colour CIE division		3	1B	1A	1B	1A	2A	2B	1B	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

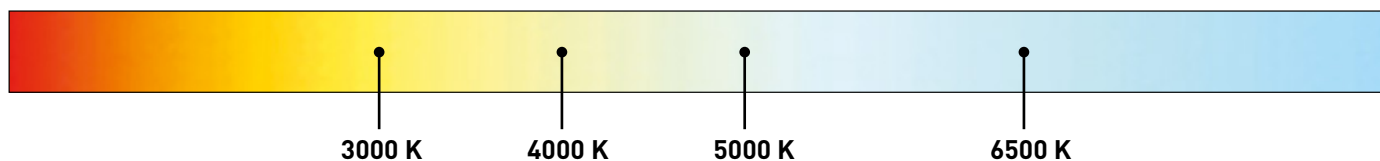
CRI - COLOUR RENDERING INDEX

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, PRIMA, INNOVA, FUTURA, TREX, PERUN SLIM, ALUMAX LED, CANOPUS, LINEA, LANUS, ERYX					
	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, NAOS, NAON, SB LED, TAURI, EPIGONI, EMPUSA, NYX					
	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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