

NOX

oms[®]
FOLLOW THE RIGHT WAY

PRODUCTS
E-CATALOGUE
3/2018

UNOX

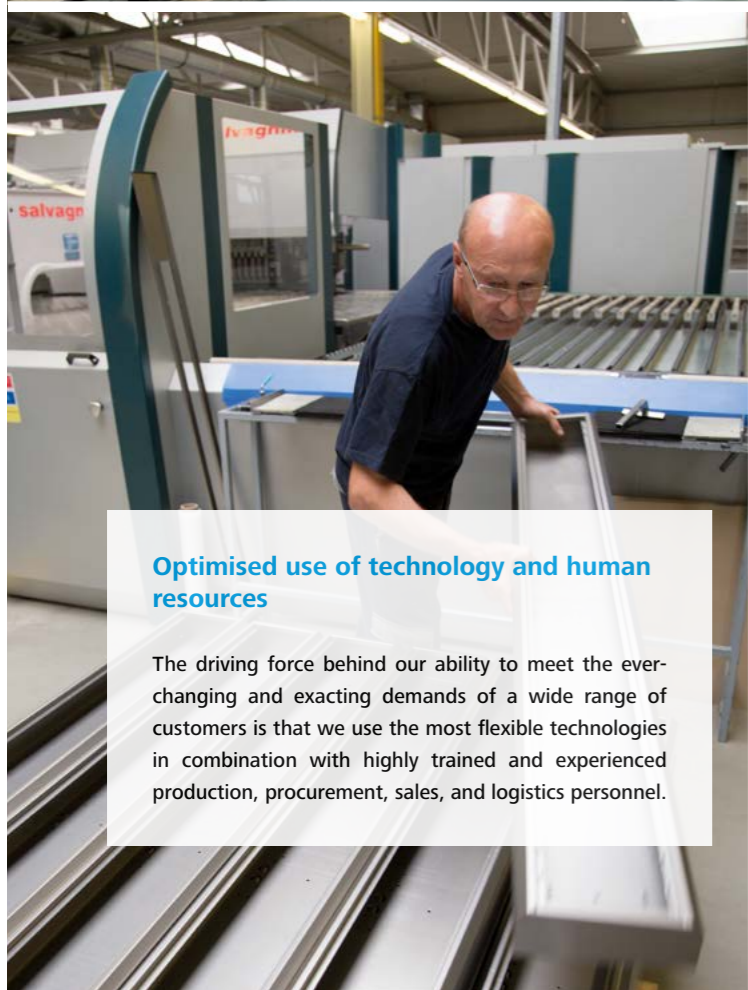
UNOLUX is one of the biggest lighting producers in Europe, employing almost 1000 development and business experts, administrators, and highly trained manufacturing personnel. On top of this solid foundation stand environmentally responsible streamlined logistics processes and supply chain management covering everything from procurement through production to distribution, enabling us to dynamically respond with speed and accuracy to market and customer needs.

UNOLUX fills a gap in the market for price-conscious customers who demand European production standards by aiming to offer the best quality to price ratio across a comprehensive range of LED and conventional luminaires.

Restless innovation

It is our aim to offer products with the very best price to quality ratio, built to European manufacturing standards and showing the highest respect for lighting requirements, quality, and continued innovation. In this way, we guarantee customer satisfaction as well as achieving the turnover required to follow the latest lighting science and trends, and meet the needs of our shareholders, employees, and community.





Optimised use of technology and human resources

The driving force behind our ability to meet the ever-changing and exacting demands of a wide range of customers is that we use the most flexible technologies in combination with highly trained and experienced production, procurement, sales, and logistics personnel.



Streamlined logistics processes

Every step of our business logistics and supply chain management is fine-tuned to help us respond with speed and accuracy to customer needs. We receive a total of 900 pallets into our warehouses every day containing raw materials ranging from metals and surface treatment supplies to a wide range of components. At the other end of the process, we release 1200 per day to assembly and for shipping. We use a comprehensive SAP system to manage such large-scale movement of materials within our campus between 9 warehouses with almost 11,000 pallet spaces.

To ensure reliable and punctual delivery of goods to customers, we have our own fleet of 14 trucks able to carry up to 7.5 t. All trucks and orders can be fully tracked at all times, and orders are permanently recorded for future reference and quality control.

To take full advantage of our expert supply chain management personnel and processes, we complete orders using the FIFO and JIT methods to allow us to respond dynamically to rapidly changing requirements.



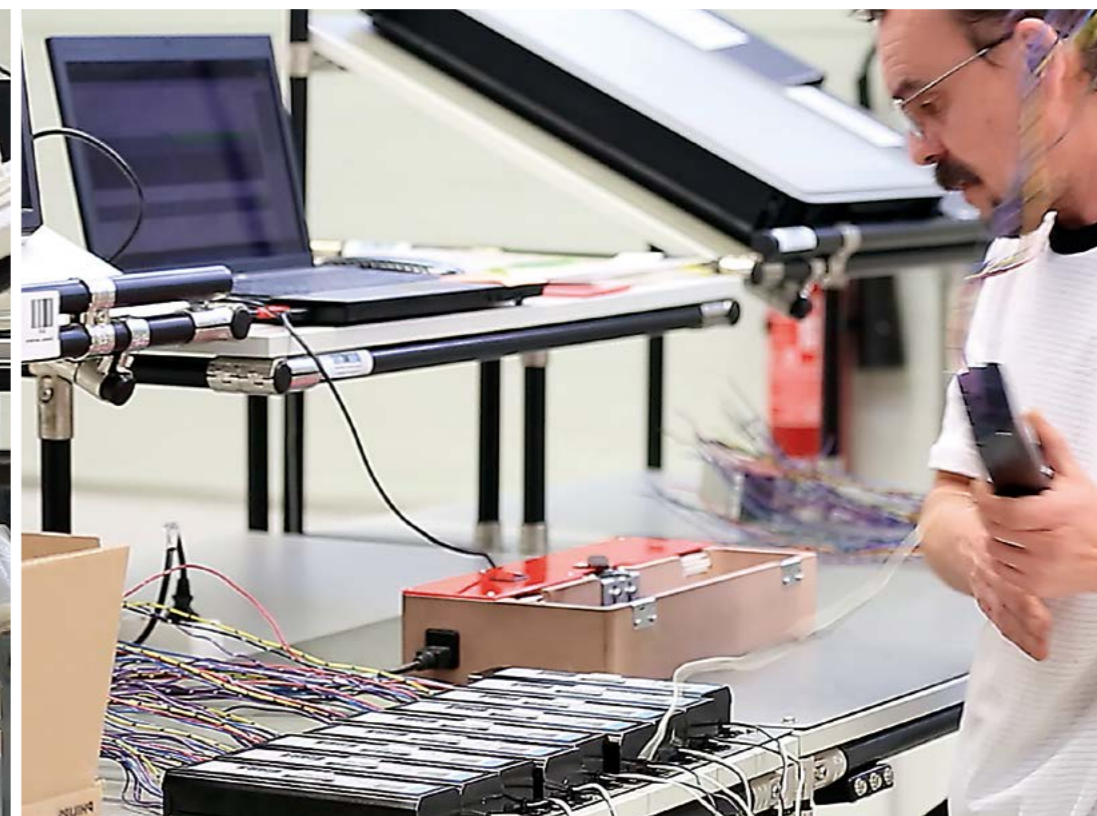
Specialist LED product manufacture

We select LED modules with the best quality to price ratio to ensure that the light quality of our luminaires stands up to their production quality. All of our LED luminaires are assembled in a specialised ESP facility and thoroughly tested using certified precision equipment.



Strict quality control

We work with global leaders in the supply of our components. Our strict requirements cover part conformity and quality of delivery in compliance with valid EU standards and directives (RoHS, CE, COC, etc.). We plan and apply an array of monitoring, measurement, and analysis processes in order to enforce and where possible improve on demonstration of compliance with strict normative requirements and our ISO 9001:2008 quality management systems. We consistently work to improve our inspection and testing standards and strictly monitor the quality of our products so that customers can rest assured they will have chosen the best quality luminaires.



We use modern, innovative manufacturing technologies that allow us a high level of flexibility to change production rates without downtime or quantity limitations.



A heritage of technological excellence

Europe is known the world over as the heart of quality product development and engineering. In addition to this, UNOLUX stands on the globally renowned and durable foundation of Czechoslovakian technological and scientific excellence. Every one of our products comes with a solid history of European quality behind it.



LED PCB production

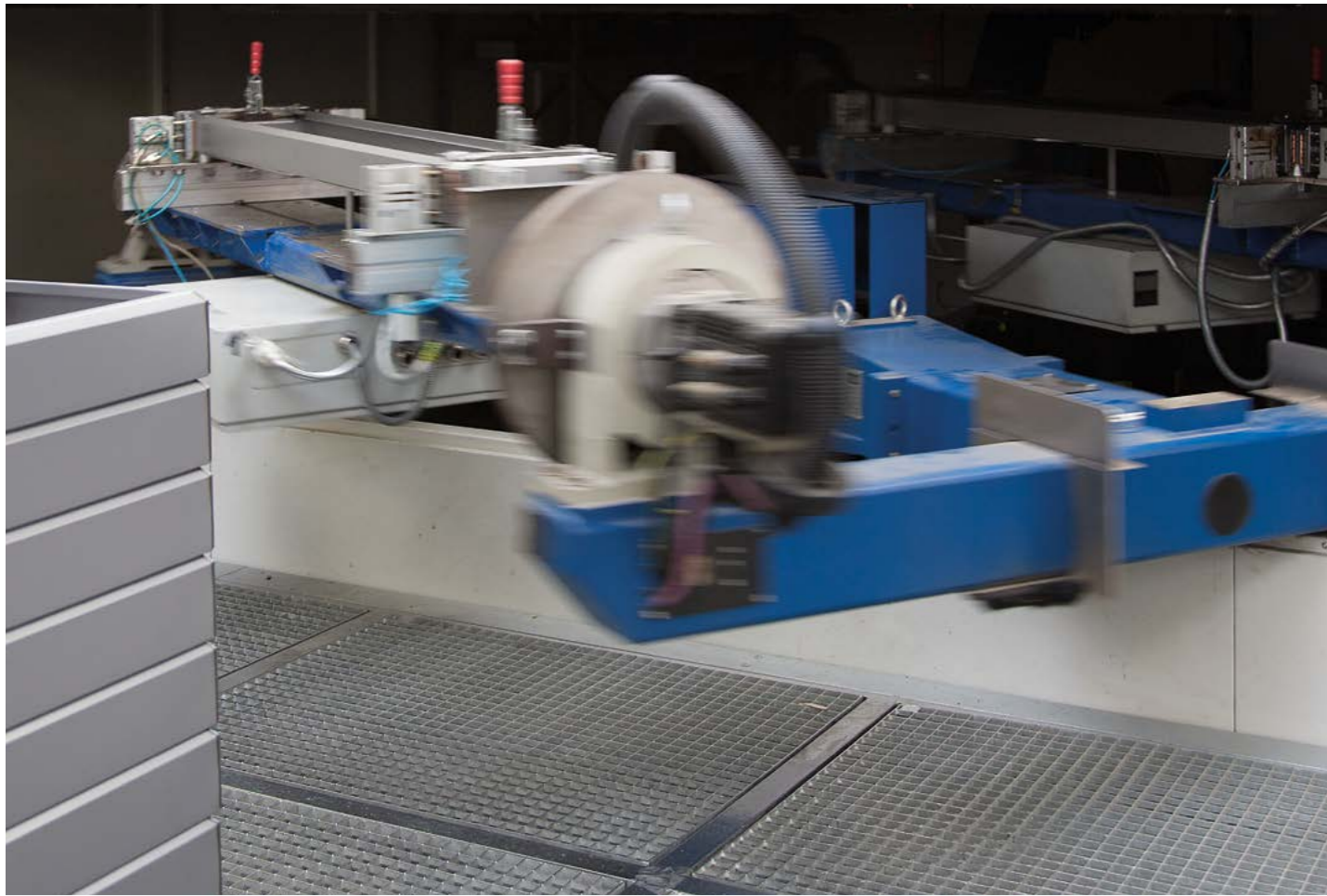
We use single- and double-layer FR4 and single-layer metal-core copper-coated strip and panel LED PCBs in the majority of UNOLUX LED luminaires. Production is fully automated using a range of sophisticated CNC machines. First, the boards are printed with a resistant layer and a mask in the form of the designed circuit. The boards are then chemically etched to create the copper traces required for component assembly. Next, the boards are cut and drilled, and copper vias placed if required, after which a coloured mask layer applied. Components are then mechanically placed using high-tech pick and place robots and electronically connected using the SMT method. Finally, PCBs pass through a reflow oven to complete the soldering process before being released for use in luminaire assembly.



Sheet metal processing

To streamline the production of luminaire housings, we use three single-operator SALVAGNINI combined production lines that serve as fully automated centres for the production of sheet metal parts. Each combined production line has a shearing centre where holes are cut in the metal sheets using a range of 60 different cutting tools, and a bending centre where parts are bent into a final shape. Many UNOLUX luminaire housings are designed to be completed without the need for additional processes such as spot welding, which allows us to greatly reduce the time taken to complete each order. At present, our three SALVAGNINI combined production lines process approximately 250 tons of sheet metal per month, making them a great asset.

For smaller production runs, we use a TruMatic 3000 Fiber combined punching, laser cutting, and laser welding machine in partnership with two TruBend machines. All processes involve highly flexible, simple, and rapid tooling and programming so that our skilled operators can create parts with ease and at high speed.



Laser welding

We use laser-welding technology from two world-renowned manufacturers: TRUMPF and KUKA. In contrast to conventional MIG and TIG welding, laser welding allows us to achieve an incomparable weld quality and overall part finish, which is especially apparent as we work with sheets as thin as 0.6 mm. The TRUMPF machine uses a 1.5 kW solid-state crystal YAG laser. The KUKA machine is a six-axis HRC welding robot with positioning workbench, two workstations, and pneumatic fastening, which enables us to weld in an uninterrupted cycle. To protect operators' eyes, the entire welding process takes place in the enclosed cell where the robot is located. Another advantage of this versatile machine is that a luminaire housing can be completed and ready for surface treatment within as little as 2.5 minutes without the need for additional abrasive operations.



Production of plastic parts and lenses

We use a range of KRAUSS MAFFEI injection molding machines with pressing forces from 500 to 27,000 kN. The machines are very fast, which is further enhanced by automated unloading of parts by six-axis robots. All of the machines allow for easy and quick mold changes and modification to operative parameters, resulting in streamlined production. The machines, along with our use of the best quality plastics, result in a very low defect rate.

For the production of extruded plastic parts such as diffusers, we use a Fruil Filiere OMEGA S45 extrusion line. We also have a Sonderhoff EDF 'mold'n'seal' gasketing machine that produces sealed parts suitable for use in outdoor and waterproof interior luminaires.

Wiring robots

For many wiring operations, we use KAWASAKI wiring robots that are rapidly programmable to perform any number of detailed processes. The wiring head's unique design makes it possible to perform all the operations needed to connect the individual components of the luminaire: cutting exact lengths, insulating wire terminals, the precise embedding of wires in the housing, and the actual connection. These machines allow us to minimise large-scale production costs by reducing the time needed to create each luminaire, enabling great production flexibility, allowing the use of standardised components, and the meeting of tough quality targets.



Surface treatment



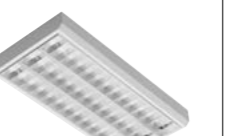





Our customised Ideal-Line surface treatment line is the biggest machine we own. It allows us to powder coat parts in large quantities and to an excellent standard. The automated process is divided into four parts: pretreatment, drying, surface treatment, and curing. Untreated parts are hung on an automatic conveyor and first go into a pretreatment tunnel where they are thoroughly washed and dried. Next, they go into a chamber where powder paint is applied using 22 automated nozzles and adheres to the metal using static electricity. Complex parts can be hand-sprayed in another chamber if needed. Then the surface treatment is quality controlled before the parts move into a tunnel oven where the finish is cured at temperatures of around 200 °C. We can apply a wide range of surface treatments that are resistant to moisture, mechanical abrasion, a chemically aggressive environment, UV, or with antibacterial properties. For previously treated parts, it takes as little as ten minutes to fully remove and replace the original finish with another.



RECESSED LUMINAIRES

SANA RECESSED 22	RELAX A1 LED 24	RELAX A2 LED 24	RELAX A8 LED 24
			

SURFACED AND SUSPENDED LUMINAIRES

SANA SURFACED 22	SANA SUSPENDED 22	CLASSIC LED 26	MODUL LMD LED 28	PLAST S11 32
				
PLAST H LED 34	PLAST 2 LED 36	PLAST B 38		
				


CONTINUOUS LINES

MODUL LMD LINE LED 30			
			





DOWNLIGHTS

PERLITA 40	PERLITA ADJUSTABLE 42	TUBUS 292 LED 44
		

TRACKLIGHTS AND SPOTLIGHTS

AIR ECO 46			
			

LUMINAIRES WITH HIGH PROTECTION DEGREE

TDO STEEL LED 50	TDO III ECO LED 52	ORIA 54	PARIDA 56	PARIDA ECO 58
				
CAPRICORN LED 60				
				

POST-TOP AND SIDE-ENTRY MOUNTING

KEATON S 62	KEATON M 64	SEMAI 66	SAGAR 70
			

CLICK ON
PRODUCT



EMERGENCY LUMINAIRES

2900 72 2910 74 2921 76 2930 78 2980 80

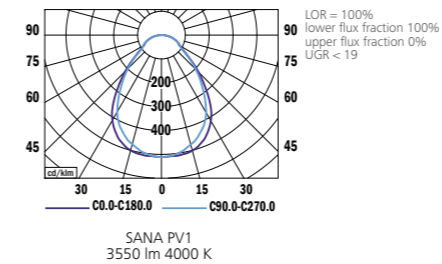


2990 82 3100 84 3110 86 3200 88 3220 90



LED LUMINAIRES





PV1



LED LUMINAIRES

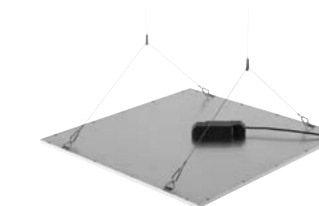
FRAME FOR PLASTERBOARD INSTALLATION (PB1)



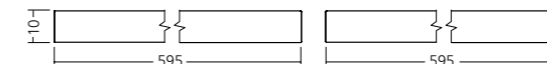
FRAME FOR SURFACED INSTALLATION



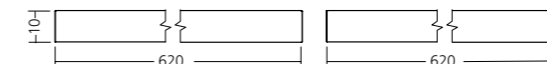
ROPE SUSPENSION



PV1



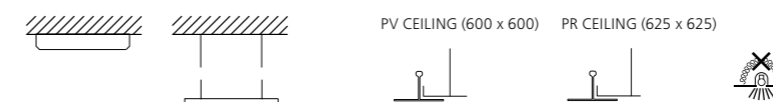
PR1



ECG/DALI



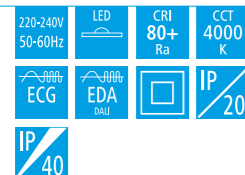
MOUNTING



TYPE	NET LUMEN OUTPUT (at Ta = 25°C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)
SANA PV1	3650	35	104	80+	4000	85°	3.7
SANA PR1	3700	35	106	80+	4000	85°	3.7
SANA PV1	4200	44	95	80+	4000	85°	4.1
SANA PR1	4400	44	100	80+	4000	85°	4.1

Luminous flux tolerance +/- 10%

Sana



EN

Mounting

Ceiling recessed
PVx/PRx - T-ceiling

Light source
LED

Optical system
Microprismatic diffuser (MCD)

Wiring
Electronic control gear FIX/DALI (ECG/EDA)

Materials

Housing: aluminium
Diffuser: polycarbonate

Surface finish
Housing: white RAL 9016

Accessories
Frame for plasterboard installation
Frame for surfaced installation
Rope suspension

Service lifetime
50,000 hours/L70/B50 (ta 25°C)

Ambient temperature
From -20 °C to +35 °C

DE

Montage

Einbauleuchte
PVx/PRx - Sichtbare T-schiene Decke

Lichtquelle
LED

Optisches System
Mikroprismatischer Diffusor (MCD)

Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)

Material

Körper: aluminium
Diffusor: Polycarbonat

Oberflächenveredelung
Körper: weiss RAL 9016

Zubehör
Rahmen für Gipskarton - Installation
Rahmen für tauchte Installation
Seilauflhängung

Lebensdauer
50,000 hours/L70/B50 (ta 25°C)

Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage

Plafonnier encastrable
PVx/PRx - Un faux plafond

Source lumineuse
LED

Système optique
Diffuseur microprisme (MCD)

Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)

Matériels

Corps: aluminium
Diffusor: polycarbonat

Finition de surface
Corps: blanc RAL 9016

Accessoires
Cadre pour l'installation de plaques de plâtre
Cadre pour plafonnier apparent
Câble de suspension

Durée de vie utile
50,000 hours/L70/B50 (ta 25°C)

Température ambiante
De -20 °C à +35 °C

SK

Montáž

Vsadené
PVx/PRx - Kazetový strop

Svetelný zdroj
LED

Optický systém
Mikroprizmatický difúzor (MCD)

Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)

Material

Teleso: hliník
Difúzor: polykarbonát

Povrchová úprava
Teleso: biela RAL 9016

Príslušenstvo
Rám pre montáž do sadrokartónového stropu
Rám pre prisadenie
Lankový záves

Service life
50,000 hours/L70/B50 (ta 25°C)

Teplota okolia
Od -20 °C do +35 °C

ES

Montaje

Empotradas en el techo
PVx/PRx - Techo T

Fuente luminica
LED

Sistema óptico
Difusor microprismático (MCD)

Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)

Material

Cuerpo: aluminio
Difusor: polycarbonato

Tratamiento de la superficie
Cuerpo: blanco RAL 9016

Accesorios
Capítulo para la instalación de placas de yeso
Capítulo para la instalación superficie
Cable de suspensión

Vida útil
50,000 hours/L70/B50 (ta 25°C)

Temperatura ambiente
Desde -20 °C a +35 °C

IT

Installazione

Ad incasso a soffitto
PVx/PRx - Struttura in vista

Sorgente luminosa
LED

Sistema ottico
Diffusore microprismatico (MCD)

Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)

Materiali

Corpo: alluminio
Diffusore: polycarbonato

Finitura
Corpo: bianco RAL 9016

Accessori
Telaio per l'installazione in cartongesso
Cornice per l'installazione affiorata
Cavo di sospensione

Durata di vita
50,000 hours/L70/B50 (ta 25°C)

Temperatura d'ambiente
Da -20 °C a +35 °C

RU

Установка

Потолочная встроенная
PVx/PRx - Кассетный потолок

Источник света
LED

Оптическая система
Микропризматический рассеиватель (MCD)

Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)

Материал

Корпус: алюминий
Рассеиватель: поликарбонат

Отделка поверхности
Корпус: белый RAL 9016

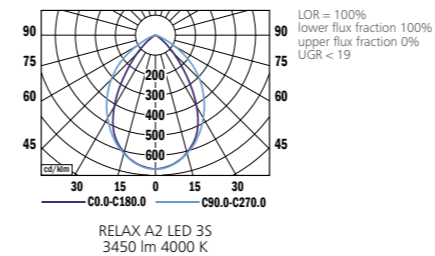
Аксессуары
Рамка для установки гипсокартона
Рамка для вставки установки
Тросовый подвес

Срок службы
50,000 hours/L70/B50 (ta 25°C)

Температура окружающей среды
От -20 °C до +35 °C

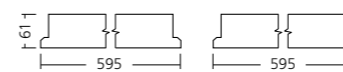
RELAX A1 / A2 / A8 LED

PAR MAT-V2
LED



LED LUMINAIRES

A1 / A2 PV



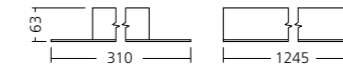
A8 PV



A1 / A2 PR



A8 PR



MOUNTING

PV CEILING (600 x 600) PR CEILING (625 x 625)



TYP	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	EMERGENCY UNIT 3H	WEIGHT (kg)
RELAX A1 LED 4S	4450	41	109	80+	3000	69°, 88°	620	4.6
RELAX A1 LED 4S	4650	41	113	80+	4000	69°, 88°	650	4.6
RELAX A2 LED 3S	3250	31	105	80+	3000	69°, 88°	620	4.5
RELAX A2 LED 3S	3450	31	111	80+	4000	69°, 88°	650	4.5
RELAX A8 LED 2M	4400	41	107	80+	3000	69°, 88°	620	3.6
RELAX A8 LED 2M	4700	41	115	80+	4000	69°, 88°	650	3.6

Luminous flux tolerance +/- 10%.

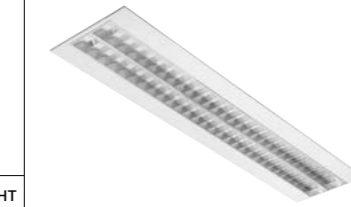
A1



A2



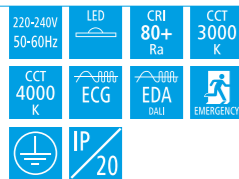
A8



FRAME FOR PLASTERBOARD INSTALLATION (PB1)



Relax A1 / A2 / A8 Led



EN

Mounting

Ceiling recessed
PVx/PRx - T-ceiling

Light source

LED

Optical system

Matt parabolic louvre PAR MAT-V2 (ML2)

Wiring

Electronic control gear FIX/DALI (ECG/EDA)
Emergency unit variant (3H, ECG)

Materials

Housing: sheet steel
Diffuser: PMMA
Parabolic louvre: matt anodised aluminium

Surface finish

Housing: white RAL 9003 (W03)

Accessories

Frame for plasterboard installation

Service lifetime

50,000 hours/L80/B10 (ta 25°C)

Ambient temperature

From -25 °C to +40 °C
(from +5°C with EM unit)

DE

Montage

Einbauleuchte
PVx/PRx - Sichtbare T-schiene Decke

Lichtquelle

LED

Optisches System

Matt parabolischer Raster PAR MAT-V2 (ML2)

Vorschaltgerät

Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Notbeleuchtung Variante (3H, ECG)

Material

Körper: Stahlblech
Diffusor: PMMA
Parabolischer Raster: mattes eloxiertes Aluminium

Oberflächenveredelung

Körper: weiss RAL 9003 (W03)

Zubehör

Rahmen für Gipskarton -Installation

Lebensdauer

50,000 Stunden/L80/B10 (ta 25°C)

Umgebungstemperatur

Von -25 °C bis +40 °C
(von +5°C mit Notbeleuchtung)

FR

Montage

Plafonnier encastrable
PVx/PRx - Un faux plafond

Source lumineuse

LED

Système optique

Grille parabolique mat PAR MAT-V2 (ML2)

Équipement électrique

Ballast électronique FIX/DALI (ECG/EDA)
Variante de l'unité de secours (3H, ECG)

Matériels

Corps: tôle d'acier
Diffusor: PMMA
Parabolique Raster: aluminium anodisé mat

Finition de surface

Corps: blanc RAL 9003 (W03)

Accessoires

Cadre pour l'installation de plaques de plâtre

Durée de vie utile

50,000 heures/L80/B10 (ta 25°C)

Température ambiante

De -25 °C à +40 °C
(de +5°C avec l'unité de secours)

SK

Montáž

Vsadené
PVx/PRx - Kazetový strop

Svetelný zdroj

LED

Optický systém

Matná parabolická mriežka PAR MAT-V2 (ML2)

Elektrická výbava

Elektronický predradník FIX/DALI (ECG/EDA)
Varianta s núdzovou jednotkou (3H, ECG)

Material

Teleso: oceľový plech
Difúzor: PMMA
Parabolická mriežka: matný anodizovaný hliník

Povrchová úprava

Teleso: biela RAL 9003 (W03)

Príslušenstvo

Rám pre montáž do sadrokartónového stropu

Service životnosť

50,000 hodin/L80/B10 (ta 25°C)

Teplota okolia

Od -25 °C do +40 °C
(od +5°C s núdzovou jednotkou)

ES

Montaje

Empotradas en el techo
PVx/PRx - Techo T

Fuente luminica

LED

Sistema óptico

Rejilla parabólica mate PAR MAT-V2 (ML2)

Cableado

Equipo de control electrónico FIX/DALI (ECG/EDA)
Variante unidad de emergencia (3H, ECG)

Material

Cuerpo: lámina de acero
Difusor: PMMA
Rejilla parabólica: aluminio anodizado mate

Tratamiento de la superficie

Cuerpo: blanco RAL 9003 (W03)

Accesorios

Capítulo para la instalación de placas de yeso

Vida útil

50,000 horas/L80/B10 (ta 25°C)

Temperatura ambiente

Desde -25 °C a +40 °C
(desde +5°C con unidad de emergencia)

IT

Installazione

Ad incasso a soffitto
PVx/PRx - Struttura in vista

Sorgente luminosa

LED

Sistema ottico

Griglia parabolica opaca PAR MAT-V2 (ML2)

Cablaggio

Ballast elettronico FIX/DALI (ECG/EDA)
Variante unità di emergenza (3H, ECG)

Materiali

Corpo: lamina d'acciaio
Diffusore: PMMA
Griglia parabolica: alluminio anodizzato opaco

Finitura

Corpo: bianco RAL 9003 (W03)

Accessori

Telaio per l'installazione in cartongesso

Durata di vita

50,000 ore/L80/B10 (ta 25°C)

Temperatura d'ambiente

Da -25 °C a +40 °C
(da +5°C con unità di emergenza)

RU

Установка

Потолочная встроенная
PVx/PRx - Кассетный потолок

Источник света

LED

Оптическая система

Матовая параболическая решетка PAR MAT-V2 (ML2)

Электрическое оснащение

Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)

Блок аварийного освещения (3H, ECG)

Материал

Корпус: листовая сталь
Параболическая решетка: матовый анодированный алюминий

Отделка поверхности

Корпус: белый RAL 9003 (W03)

Аксессуары

Рамка для установки гипскартона

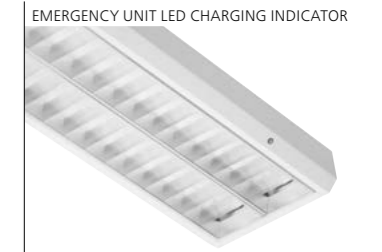
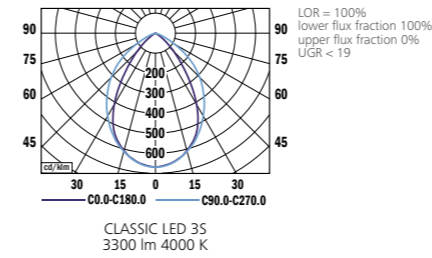
Срок службы

50,000 часов/L80/B10 (ta 25°C)

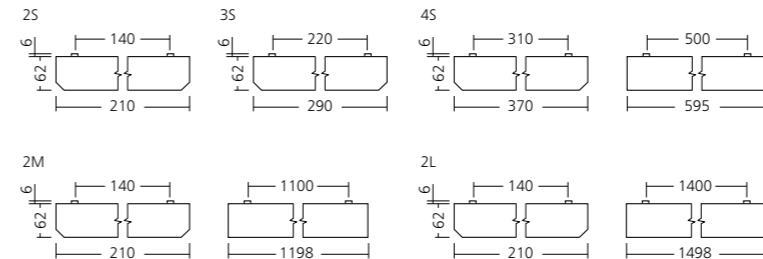
Температура окружающей среды

От -25 °C до +40 °C
(от +5°C с аварийного освещения)

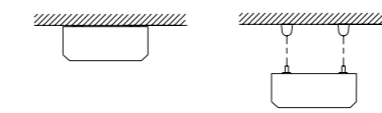
CLASSIC LED
PAR MAT-V2
LED



LED LUMINAIRES



MOUNTING



CLASSIC LED 2S



CLASSIC LED 4M



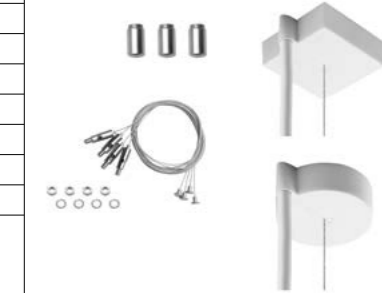
CLASSIC LED 2L



TYP	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	EMERGENCY UNIT 3H (lm)	WEIGHT (kg)
CLASSIC 2S	2100	21	100	80+	3000	68°, 85°	620	2.4
CLASSIC 2S	2200	21	105	80+	4000	68°, 85°	650	2.4
CLASSIC 3S	3150	31	102	80+	3000	67°, 86°	620	2.7
CLASSIC 3S	3300	31	106	80+	4000	67°, 86°	650	2.7
CLASSIC 4S	4300	41	105	80+	3000	68°, 85°	620	3.7
CLASSIC 4S	4500	41	110	80+	4000	68°, 85°	650	3.7
CLASSIC 2M	4200	41	102	80+	3000	68°, 88°	620	3.8
CLASSIC 2M	4400	41	107	80+	4000	68°, 88°	650	3.8
CLASSIC 2L	5250	51	103	80+	3000	68°, 88°	620	4.4
CLASSIC 2L	5500	51	108	80+	4000	68°, 88°	650	4.4

Luminous flux tolerance +/- 10%.

RS-S 03 L150 SQ (SQUARE SHAPE) OR RD (ROUND SHAPE)



Classic Led



220-240V
50-60Hz

LED

CRI 80+
Ra

CCT 3000
K

CCT 4000
K

ECG

EDA

EMERGENCY

IP 20

EN

Mounting
Surfaced/Suspended (SSx)

Light source
LED

Optical system
Matt parabolic louvre PAR MAT-V2 (ML2)

Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Emergency unit variant (3H, ECG)

Materials
Housing: sheet steel
Diffuser: PMMA
Parabolic louvre: matt anodised aluminium

Surface finish
Housing: white RAL 9003 (W03)

Accessories
Rope suspension

Service lifetime
50,000 hours/L80/B10 (ta 25°C)

Ambient temperature
From -25 °C to +35 °C
(from +5°C with EM unit)

DE

Montage
Deckenleuchte/Hängend (SSx)

Lichtquelle
LED

Optisches System
Matter parabolischer Raster PAR MAT-V2 (ML2)

Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Notbeleuchtung Variante (3H, ECG)

Material
Körper: Stahlblech
Diffusor: PMMA
Parabolischer Raster: mattes eloxiertes Aluminium

Oberflächenveredelung
Körper: weiss RAL 9003 (W03)

Zubehör
Seilauflhängung

Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)

Umgebungstemperatur
De -25 °C bis +35 °C
(von +5°C mit Notbeleuchtung)

FR

Montage
Plafonnier apparent/Suspendu (SSx)

Source lumineuse
LED

Système optique
Grille parabolique mat PAR MAT-V2 (ML2)

Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Variante de l'unité de secours (3H, ECG)

Matériels
Corps: tôle d'acier
Diffuseur: PMMA
Grille parabolique: aluminium anodisé mat

Finition de surface
Corps: blanc RAL 9003 (W03)

Accessoires
Câble de suspension

Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)

Température ambiante
De -25 °C à +35 °C
(de +5°C avec l'unité de secours)

SK

Montáž
Prisadené/Závesné (SSx)

Svetelný zdroj
LED

Optický systém
Matná parabolická mriežka PAR MAT-V2 (ML2)

Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Varianta s núdzovou jednotkou (3H, ECG)

Material
Teleso: oceľový plech
Difúzor: PMMA
Parabolická mriežka: matný anodizovaný hliník

Povrchová úprava
Teleso: biela RAL 9003 (W03)

Príslušenstvo
Lankový záves

Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)

Teplota okolia
Od -25 °C do +35 °C
(od +5°C s núdzovou jednotkou)

ES

Montaje
Sobrepuestas en el techo/Suspendidas (SSx)

Fuente luminica
LED

Sistema óptico
Rejilla parabólica mate PAR MAT-V2 (ML2)

Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)
Variante unidad de emergencia (3H, ECG)

Material
Cuerpo: lámina de acero
Difusor: PMMA
Rejilla parabólica: aluminio anodizado mate

Tratamiento de la superficie
Cuerpo: blanco RAL 9003 (W03)

Accesorios
Cable de suspensión

Vida útil
50,000 horas/L80/B10 (ta 25°C)

Temperatura ambiente
Desde -25 °C a +35 °C
(desde +5°C con unidad de emergencia)

IT

Installazione
A plafone/A sospensione (SSx)

Sorgente luminosa
LED

Sistema ottico
Griglia parabolica opaca PAR MAT-V2 (ML2)

Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Variante unità di emergenza (3H, ECG)

Materiali
Corpo: lamina d'acciaio
Diffusore: PMMA
Griglia parabolica: alluminio anodizzato opaco

Finitura
Corpo: bianco RAL 9003 (W03)

Accessori
Cavo di sospensione

Durata di vita
50,000 ore/L80/B10 (ta 25°C)

Temperatura d'ambiente
Da -25 °C a +35 °C
(da +5°C con unità di emergenza)

RU

Установка
Потолочная накладная/Подвесная (SSx)

Источник света
LED

Оптическая система
Матовая параболическая решетка PAR MAT-V2 (ML2)

Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Блок аварийного освещения (3H, ECG)

Материал
Корпус: листовая сталь
Рассеиватель: полиметилметакрилат
Параболическая решетка: матовый анодированный алюминий

Отделка поверхности
Корпус: белый RAL 9003 (W03)

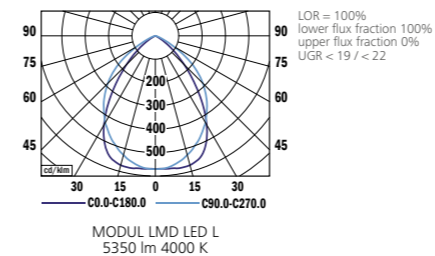
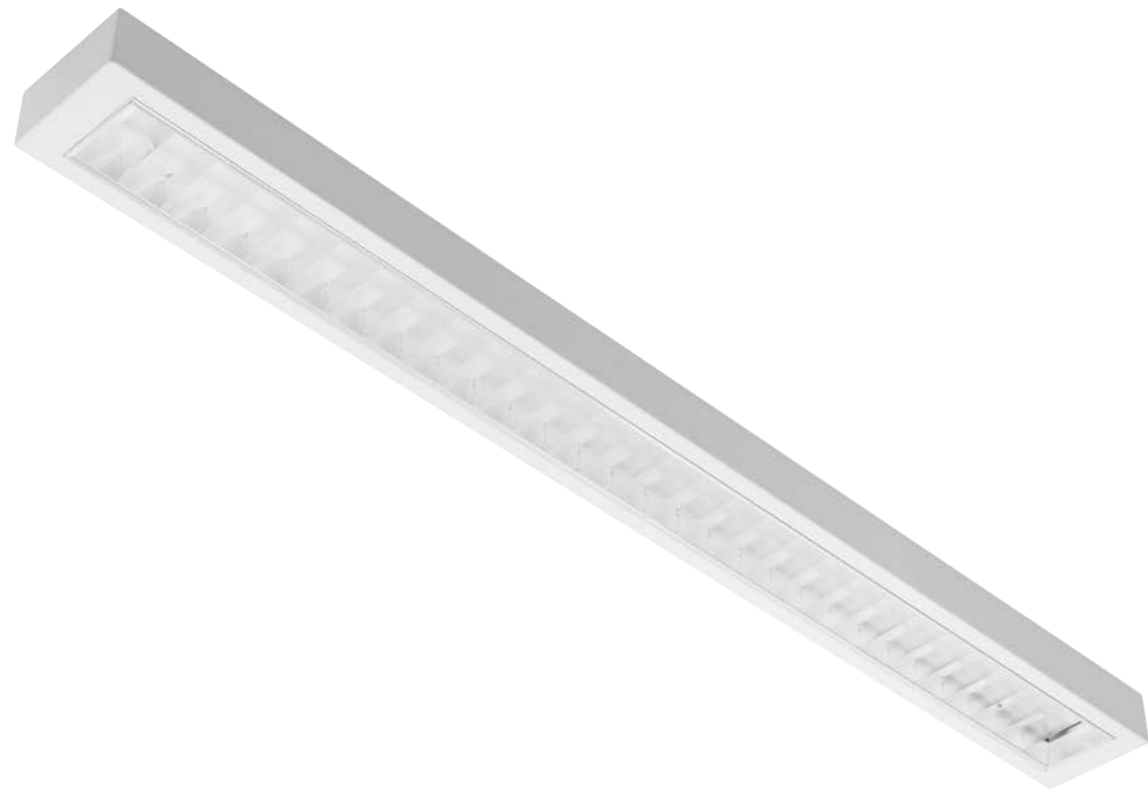
Аксессуары
Тросовый подвес

Срок службы
50,000 часов/L80/B10 (ta 25°C)

Температура окружающей среды
От -25 °C до +35 °C
(от +5°C с аварийного освещения)

MODUL LMD LED

PAR MAT-V2
LED

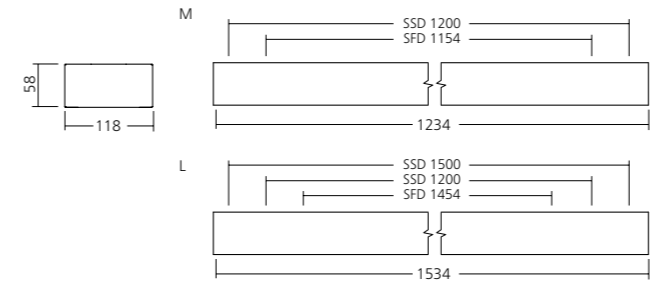


LED LUMINAIRES

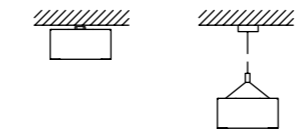
EMERGENCY UNIT LED CHARGING INDICATOR



RS-S 58 L150 SQ (SQUARE SHAPE) OR RD (ROUND SHAPE)



MOUNTING



TYP	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	EMERGENCY UNIT 3H	WEIGHT (kg)
MODUL LMD LED M	2250	21	107	80+	3000	75°, 89°	600	3.8
MODUL LMD LED M	2350	21	112	80+	4000	75°, 89°	650	3.8
MODUL LMD LED M	5600	49	114	80+	3000	75°, 89°	600	3.8
MODUL LMD LED M	5850	49	119	80+	4000	75°, 89°	650	3.8
MODUL LMD LED L	5100	42	121	80+	3000	75°, 89°	600	4.4
MODUL LMD LED L	5350	42	127	80+	4000	75°, 89°	650	4.4
MODUL LMD LED L	6700	56	120	80+	3000	75°, 89°	600	4.4
MODUL LMD LED L	7050	56	126	80+	4000	75°, 89°	650	4.4

Luminous flux tolerance +/- 10%.

Modul LMD Led



220-240V 50-60Hz
LED
CRI 80+ Ra
CCT 3000 K
CCT 4000 K
ECG
DALI
EMERGENCY
IP 20

EN
Mounting
Surfaced/Suspended (S/S)
Light source
LED
Optical system
Matt parabolic louvre PAR MAT-V2 (ML2)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Emergency unit variant (3H, ECG)
Materials
Housing: sheet steel
Diffuser: PMMA
Parabolic louvre: matt anodised aluminium
Surface finish
Housing: white RAL 9003 (W03)
Accessories
Rope suspension
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C
(from +5°C with EM unit)

DE
Montage
Deckenleuchte/Hängend (S/S)
Lichtquelle
LED
Optisches System
Matter parabolischer Raster PAR MAT-V2 (ML2)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Notbeleuchtung Variante (3H, ECG)
Material
Körper: Stahlblech
Diffusor: PMMA
Parabolischer Raster: mattes eloxiertes Aluminium
Oberflächenveredelung
Körper: weiss RAL 9003 (W03)
Zubehör
Seilauflhängung
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C
(von +5°C mit Notbeleuchtung)

FR
Montage
Plafonnier apparent/Suspendu (S/S)
Source lumineuse
LED
Système optique
Grille parabolique mat PAR MAT-V2 (ML2)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Variante de l'unité de secours (3H, ECG)
Matériels
Corps: tôle d'acier
Diffusor: PMMA
Grille parabolique: aluminium anodisé mat
Finition de surface
Corps: blanc RAL 9003 (W03)
Accessoires
Câble de suspension
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -20 °C à +35 °C
(de +5°C avec l'unité de secours)

SK
Montáž
Prisadené/Závesné (S/S)
Svetelný zdroj
LED
Optický systém
Matná parabolická mriežka PAR MAT-V2 (ML2)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Varianta s núdzovou jednotkou (3H, ECG)
Matériál
Teleso: oceľový plech
Difúzor: PMMA
Parabolická mriežka: matný anodizovaný hliník
Povrchová úprava
Teleso: biela RAL 9003 (W03)
Príslušenstvo
Lankový záves
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C
(od +5°C s núdzovou jednotkou)

ES
Montaje
Sobrepuestas en el techo/Suspendidas (S/S)
Fuente luminica
LED
Sistema óptico
Rejilla parabólica mate PAR MAT-V2 (ML2)
Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)
Variante unidad de emergencia (3H, ECG)
Material
Cuerpo: lámina de acero
Difusor: PMMA
Rejilla parabólica: aluminio anodizado mate
Tratamiento de la superficie
Cuerpo: blanco RAL 9003 (W03)
Accesorios
Cable de suspensión
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C
(desde +5°C con unidad de emergencia)

IT
Installazione
A plafone/A sospensione (S/S)
Sorgente luminosa
LED
Sistema ottico
Griglia parabolica opaca PAR MAT-V2 (ML2)
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Variante unità di emergenza (3H, ECG)
Materiali
Corpo: lamina d'acciaio
Diffusore: PMMA
Griglia parabolica: alluminio anodizzato opaco
Finitura
Corpo: bianco RAL 9003 (W03)
Accessori
Cavo di sospensione
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C
(da +5°C con unità di emergenza)

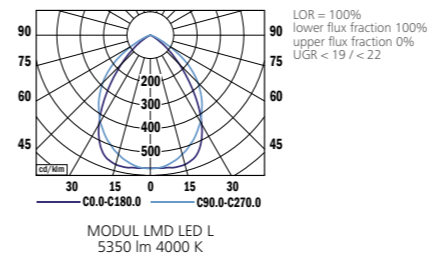
RU
Установка
Потолочная накладная/Подвесная (S/S)
Источник света
LED
Оптическая система
Матовая параболическая решетка PAR MAT-V2 (ML2)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Блок аварийного освещения (3H, ECG)
Материал
Корпус: листовая сталь
Рассеиватель: полиметилметакрилат
Параболическая решетка: матовый анодированный алюминий
Отделка поверхности
Корпус: белый RAL 9003 (W03)
Аксессуары
Тросовый подвес
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C
(от +5°C с аварийного освещения)

MODUL LMD LINE LED

PAR MAT-V2
LED



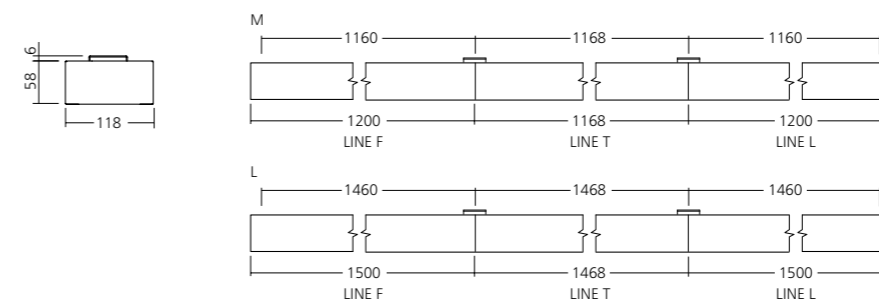
Modul LMD Line Led



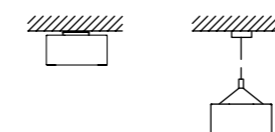
EMERGENCY UNIT LED CHARGING INDICATOR



LUMINAIRES



MOUNTING



LED

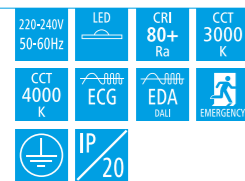
RS-S 58 L150 SQ (SQUARE SHAPE) OR RD (ROUND SHAPE)



TYP	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	EMERGENCY UNIT 3H	WEIGHT (kg)
MODUL LMD LINE LED M	2250	21	107	80+	3000	75°, 89°	600	3.8
MODUL LMD LINE LED M	2350	21	112	80+	4000	75°, 89°	650	3.8
MODUL LMD LINE LED M	5600	49	114	80+	3000	75°, 89°	600	3.8
MODUL LMD LINE LED M	5850	49	119	80+	4000	75°, 89°	650	3.8
MODUL LMD LINE LED L	5100	42	121	80+	3000	75°, 89°	600	4.5
MODUL LMD LINE LED L	5350	42	127	80+	4000	75°, 89°	650	4.5
MODUL LMD LINE LED L	6700	56	120	80+	3000	75°, 89°	600	4.5
MODUL LMD LINE LED L	7050	56	126	80+	4000	75°, 89°	650	4.5

Luminous flux tolerance +/- 10%.

RS-C 19/58 L150



EN

Mounting
Ceiling surfaced or suspended - determined for continuous installation (MDS)

Light source
LED

Optical system
Matt parabolic louvre PAR MAT-V2 (ML2)

Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Through wiring (F, T version)
Emergency unit variant (3H, ECG)

Materials
Housing: sheet steel
Diffuser: PMMA
Parabolic louvre: matt anodised aluminium

Surface finish
Housing: white RAL 9003 (W03)

Accessories
Rope suspension

Service lifetime
50,000 hours/L80/B10 (ta 25°C)

Ambient temperature
From -20 °C to +35 °C
(from +5°C with EM unit)

DE

Montage
Deckenleuchte oder Hänge - mit Erweiterungsmöglichkeit (MDS)

Lichtquelle
LED

Optisches System
Matter parabolischer Raster PAR MAT-V2 (ML2)

Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Durchgangsverdrahtung (F, T Version)
Notbeleuchtung Variante (3H, ECG)

Material
Körper: Stahlblech
Diffuser: PMMA
Parabolischer Raster: mattes eloxiertes Aluminium

Oberflächenveredelung
Körper: weiss RAL 9003 (W03)

Zubehör
Seilauflhängung

Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)

Umgebungstemperatur
Von -20 °C bis +35 °C
(von +5°C mit Notbeleuchtung)

FR

Montage
Plafonnier apparent u suspendu - conçu pour une installation continue (MDS)

Source lumineuse
LED

Système optique
Grille parabolique mat PAR MAT-V2 (ML2)

Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Câblage traversant (version F, T)
Variante de l'unité de secours (3H, ECG)

Matériels
Corps: tôle d'acier
Diffuseur: PMMA
Grille parabolique: aluminium anodisé mat

Finition de surface
Corps: blanc RAL 9003 (W03)

Accessoires
Câble de suspension

Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)

Température ambiante
De -20 °C à +35 °C
(de +5°C avec l'unité de secours)

SK

Montáž
Prisadené alebo závesné - predčuné na montáž do línií (MDS)

Svetelný zdroj
LED

Optický systém
Matná parabolická mriežka PAR MAT-V2 (ML2)

Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Prieběžné vinutie (F, T verzia)
Varianta s núdzovou jednotkou (3H, ECG)

Material
Teleso: ocelový plech
Difúzor: PMMA
Parabolická mriežka: matný anodizovaný hliník

Povrchová úprava
Teleso: biela RAL 9003 (W03)

Príslušenstvo
Lankový záves

Servisná životnosť
50,000 hodin/L80/B10 (ta 25°C)

Teplota okolia
Od -20 °C do +35 °C
(od +5°C s núdzovou jednotkou)

ES

Montaje
Sobrepuesto en el techo o suspendido - específico para instalaciones continuas (MDS)

Fuente luminica
LED

Sistema óptico
Rejilla parabólica mate PAR MAT-V2 (ML2)

Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)
Cablaje transversant (versión F, T)
Variante unidad de emergencia (3H, ECG)

Material
Cuerpo: lámina de acero
Difusor: PMMA
Rejilla parabólica: aluminio anodizado mate

Tratamiento de la superficie
Cuerpo: blanco RAL 9003 (W03)

Accesorios
Cable de suspensión

Vida útil
50,000 horas/L80/B10 (ta 25°C)

Temperatura ambiente
Desde -20 °C a +35 °C
(desde +5°C con unidad de emergencia)

IT

Installazione
A plafone o apparecchi illuminanti a sospensione - per installazioni in linea (MDS)

Sorgente luminosa
LED

Sistema ottico
Griglia parabolica opaca PAR MAT-V2 (ML2)

Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Cavi passanti (versioni F, T)
Variante unità di emergenza (3H, ECG)

Materiali
Corpo: lamina d'acciaio
Difusore: PMMA
Griglia parabolica: alluminio anodizzato opaco

Finitura
Corpo: bianco RAL 9003 (W03)

Accessori
Cavo di sospensione

Durata di vita
50,000 ore/L80/B10 (ta 25°C)

Temperatura d'ambiente
Da -20 °C a +35 °C
(da +5°C con unità di emergenza)

RU

Установка
Потолочная накладная или подвесная - рассчитанная на долговременную установку (MDS)

Источник света
LED

Оптическая система
Матовая параболическая решетка PAR MAT-V2 (ML2)

Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Сквозная проводка (варианты F, T)
Блок аварийного освещения (3H, ECG)

Материал
Корпус: листовая сталь
Рассеиватель: полиметилметакрилат
Параболическая решетка: матовый анодированный алюминий

Отделка поверхности
Корпус: белый RAL 9003 (W03)

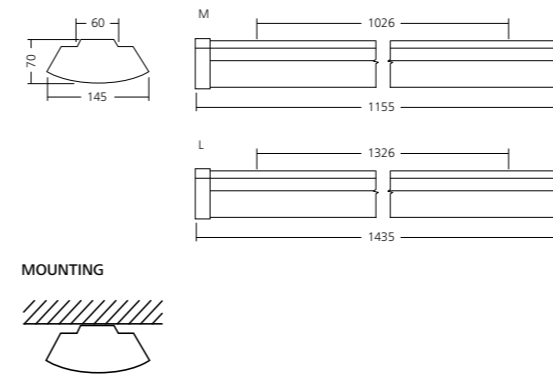
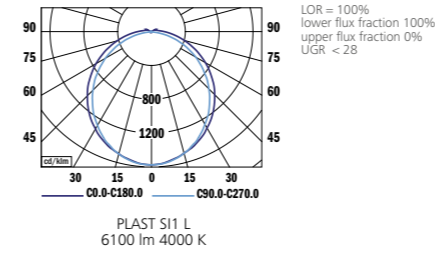
Аксессуары
Тросовый подвес

Срок службы
50,000 часов/L80/B10 (та 25°C)

Температура окружающей среды
От -20 °C до +35 °C
(от +5°C с аварийного освещения)

PLAST S11

OPAL
LED



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)
PLAST S11 M	3950	38	104	80+	3000	115°, 105°	2.2
PLAST S11 M	4150	38	109	80+	4000	115°, 105°	2.2
PLAST S11 L	4650	43	108	80+	3000	115°, 105°	2.6
PLAST S11 L	4900	43	114	80+	4000	115°, 105°	2.6

Luminous flux tolerance +/- 10%

Plast S11



220-240V 50-60Hz	LED	CRI 80+ Ra	CCT 3000 K
CCT 4000 K	ECG	EDA DALI	
IP 44	IK 08		

EN

Mounting
Surfaced (SFD)
Light source
LED
Optical system
Opal diffuser (OPD)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Materials
Housing: sheet steel
Diffuser: polycarbonate
End caps: polycarbonate
Service lifetime
50,000 hours/L90/B10 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Deckenleuchte (SFD)
Lichtquelle
LED
Optisches System
Opaler Diffusor (OPD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Material
Körper: Stahlblech
Diffusor: Polycarbonat
Abschlüsse: Polycarbonat
Lebensdauer
50,000 Stunden/L90/B10 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier apparent (SFD)
Source lumineuse
LED
Système optique
Diffuseur opale (OPD)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Matériels
Corps: tôle d'acier
Diffuseur: polycarbonate
Extrémités: polycarbonate
Durée de vie utile
50,000 heures/L90/B10 (ta 25°C)
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Prisadené (SFD)
Svetelný zdroj
LED
Optický systém
Opálový difúzor (OPD)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Material
Teleso: oceľový plech
Difúzor: polykarbonát
Koncovky: polykarbonát
Servisná životnosť
50,000 hodín/L90/B10 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Sobrepuestas en el techo (SFD)
Fuente luminica
LED
Sistema óptico
Difusor ópalo (OPD)
Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)
Material
Cuerpo: lámina de acero
Difusor: polycarbonato
Tapas en los extremos: polycarbonato
Vida útil
50,000 horas/L90/B10 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

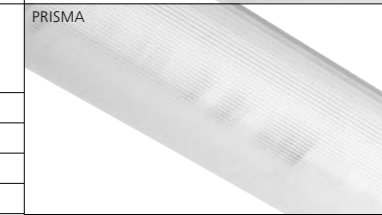
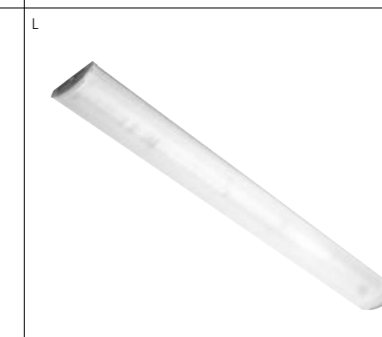
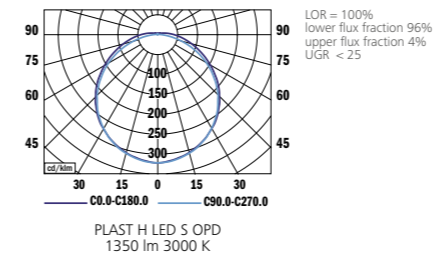
IT

Installazione
A plafone (SFD)
Sorgente luminosa
LED
Sistema ottico
Diffusore opale (OPD)
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Materiali
Corpo: lamina d'acciaio
Diffusore: polycarbonato
Terminali: polycarbonato
Durata di vita
50,000 ore/L90/B10 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

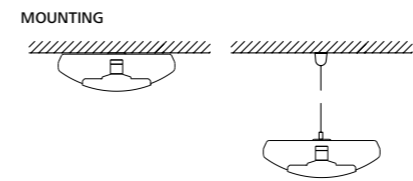
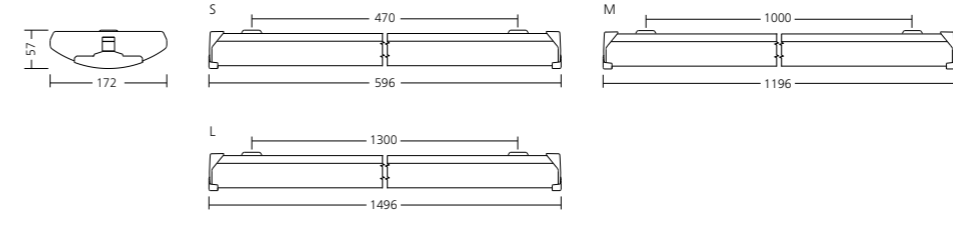
RU

Установка
Потолочная накладная (SFD)
Источник света
LED
Оптическая система
Матовый рассеиватель (OPD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Материал
Корпус: листовая сталь
Рассеиватель: поликарбонат
Торцевые крышки: поликарбонат
Срок службы
50,000 часов/L90/B10 (та 25°C)
Температура окружающей среды
От -20 °C до +35 °C

PLAST H LED
OPAL / PRISMA
LED



RS-S 09 L150 SQ (SQUARE SHAPE) OR RD (ROUND SHAPE)



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)
PLAST H LED S OPD	1350	17	79	80+	3000	105°	1.7
PLAST H LED S OPD	1400	17	82	80+	4000	105°	1.7
PLAST H LED S PRD	2500	17	147	80+	3000	115°	1.7
PLAST H LED S PRD	2650	17	156	80+	4000	115°	1.7
PLAST H LED M OPD	3350	40	84	80+	3000	105°	2.6
PLAST H LED M OPD	3500	40	88	80+	4000	105°	2.6
PLAST H LED M PRD	6250	40	156	80+	3000	115°	2.6
PLAST H LED M PRD	6600	40	165	80+	4000	115°	2.6
PLAST H LED L OPD	4150	50	83	80+	3000	105°	3.0
PLAST H LED L OPD	4350	50	87	80+	4000	105°	3.0
PLAST H LED L PRD	7800	50	156	80+	3000	115°	3.0
PLAST H LED L PRD	8200	50	164	80+	4000	115°	3.0

Luminous flux tolerance +/- 10%

Plast H Led



220-240V 50-60Hz
LED
CRI 80+ Ra
CCT 3000 K
CCT 4000 K
ECG
EDA DALI
IP 44

EN
Mounting
Surfaced/Suspended (S/S)
Light source
LED
Optical system
Opal/prismatic diffuser (OPD/PRD)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Materials
Housing: sheet steel
Diffuser: polycarbonate
End caps: white polycarbonate + sheet steel
Accessories
Rope suspension
Service lifetime
50,000 hours/L90/B10 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C

DE
Montage
Deckenleuchte/Hängend (S/S)
Lichtquelle
LED
Optisches System
Opaler/prismatischer Diffusor (OPD/PRD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Material
Körper: Stahlblech
Diffusor: Polycarbonat
Abschlüsse: weisses Polycarbonat + Stahlblech
Zubehör
Seilauflhängung
Lebensdauer
50,000 Stunden/L90/B10 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR
Montage
Plafonnier apparent/Suspendu (S/S)
Source lumineuse
LED
Système optique
Diffuseur opale/prismatique (OPD/PRD)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Matériels
Corps: tôle d'acier
Diffuseur: polycarbonate
Extrémités: polycarbonate blanc + tôle d'acier
Accessoires
Câble de suspension
Durée de vie utile
50,000 heures/L90/B10 (ta 25°C)
Température ambiante
De -20 °C à +35 °C

SK
Montáž
Prisadené/Závesné (S/S)
Svetelný zdroj
LED
Optický systém
Opálový/prizmatický difúzor (OPD/PRD)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Material
Teleso: oceľový plech
Difúzor: polykarbonát
Koncovky: biely polykarbonát + oceľový plech
Príslušenstvo
Lankový záves
Servisná životnosť
50,000 hodín/L90/B10 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C

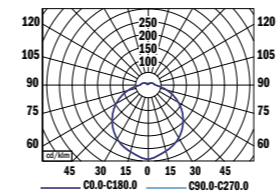
ES
Montaje
Sobrepuestas en el techo/Suspendidas (S/S)
Fuente luminica
LED
Sistema óptico
Difusor ópalo/microprismático (OPD/PRD)
Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)
Material
Cuerpo: lámina de acero
Difusor: policarbonato
Tapas en los extremos: policarbonato blanco + lámina de acero
Accesorios
Cable de suspensión
Vida útil
50,000 horas/L90/B10 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

IT
Installazione
A plafone/A sospensione (S/S)
Sorgente luminosa
LED
Sistema ottico
Diffusore opale/prismatico (OPD/PRD)
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Materiali
Corpo: lamina d'acciaio
Diffusore: polycarbonato
Terminali: polycarbonato bianco + lamina d'acciaio
Accessori
Cavo di sospensione
Durata di vita
50,000 ore/L90/B10 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

RU
Установка
Олочная накладная/Подвесная (S/S)
Источник света
LED
Оптическая система
Матовый/призматический рассеиватель (OPD/PRD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Материал
Корпус: листовая сталь
Рассеиватель: полиметилметакрилат
Торцевые крышки: белый поликарбонат + листовая сталь
Аксессуары
Тросовый подвес
Срок службы
50,000 часов/L90/B10 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C

PLAST 2 LED

OPAL
LED

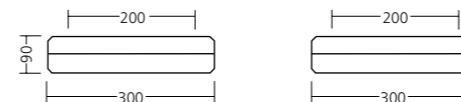


LOR = 100%
lower flux fraction 90%
upper flux fraction 10%
UGR < 25

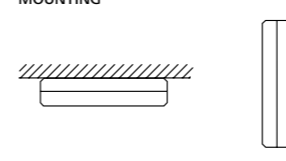
PLAST 2 LED
1450 lm 4000 K



LED LUMINAIRES



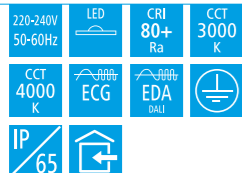
MOUNTING



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)
PLAST 2 LED	1050	12	88	80+	3000	117°	2.0
PLAST 2 LED	1100	12	92	80+	4000	117°	2.0
PLAST 2 LED	1400	14	100	80+	3000	117°	2.0
PLAST 2 LED	1450	14	104	80+	4000	117°	2.0

Luminous flux tolerance +/- 10%

Plast 2 Led



EN

Mounting
Ceiling surfaced (SFD)
Light source
LED
Optical system
Opal diffuser (OPD)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Materials
Housing: white polycarbonate
Diffuser: PMMA
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Deckenleuchte (SFD)
Lichtquelle
LED
Optisches System
Opaler Diffusor (OPD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Material
Körper: weisses Polycarbonat
Diffusor: PMMA
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier apparent (SFD)
Source lumineuse
LED
Système optique
Diffuseur opale (OPD)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Matériels
Corps: polycarbonate blanc
Diffuseur: PMMA
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Prisadené (SFD)
Svetelný zdroj
LED
Optický systém
Opálový difúzor (OPD)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Material
Teleso: biely polycarbonát
Difúzor: PMMA
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Sobrepuestas en el techo (SFD)
Fuente luminica
LED
Sistema óptico
Difusor ópalo (OPD)
Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)
Material
Cuerpo: polycarbonato blanco
Difusor: PMMA
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

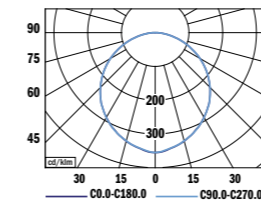
IT

Installazione
A plafone (SFD)
Sorgente luminosa
LED
Sistema ottico
Diffusore opale (OPD)
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Materiali
Corpo: polycarbonato bianco
Diffusore: PMMA
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

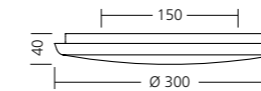
RU

Установка
Потолочная накладная (SFD)
Источник света
LED
Оптическая система
Матовый рассеиватель (OPD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Материал
Корпус: белый поликарбонат
Рассеиватель: полиметилметакрилат
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C

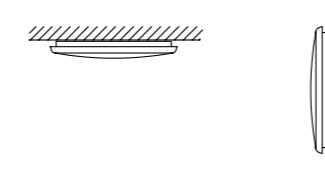
PLAST B
OPAL
LED



LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR < 28



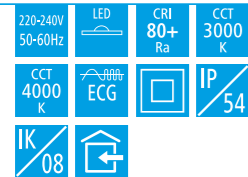
MOUNTING



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)
PLAST B	2200	25	88	80+	3000	112°	1.0
PLAST B	2300	25	92	80+	4000	112°	1.0

Luminous flux tolerance +/- 10%

Plast B



EN

Mounting
Ceiling surfaced (SFD)
Light source
LED
Optical system
Opal diffuser (OPD)
Wiring
Electronic control gear FIX (ECG)
Materials
Housing: polycarbonate
Diffuser: polycarbonate
Accessories
Microwave sensor
Service lifetime
40,000 hours/L70/B50 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Deckenleuchte (SFD)
Lichtquelle
LED
Optisches System
Opaler Diffusor (OPD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Material
Körper: Polycarbonat
Diffusor: Polycarbonat
Zubehör
Mikrowellensensor
Dauerde
40,000 Stunden/L70/B50 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier apparent (SFD)
Source lumineuse
LED
Système optique
Diffuseur opale (OPD)
Équipement électrique
Ballast électronique FIX (ECG)
Matériels
Corps: polycarbonate
Diffuseur: polycarbonate
Accessoires
Capteur de micro-onde
Durée de vie utile
40,000 heures/L70/B50 (ta 25°C)
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Prisadené (SFD)
Svetelný zdroj
LED
Optický systém
Opálový difúzor (OPD)
Elektrická výbava
Elektronický predradník FIX (ECG)
Material
Teleso: polycarbonát
Difúzor: polycarbonát
Príslušenstvo
Mikrovlnný senzor
Servisná životnosť
40,000 hodín/L70/B50 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C

ES

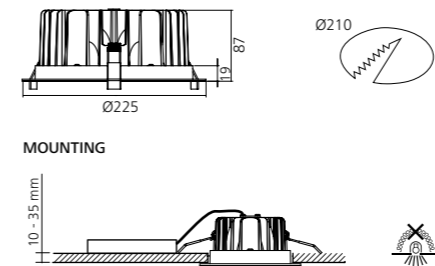
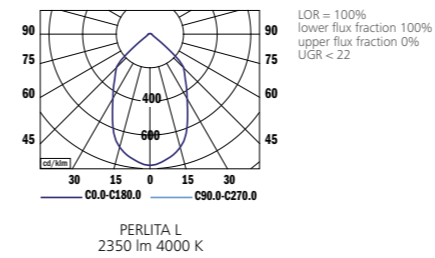
Montaje
Sobrepuestas en el techo (SFD)
Fuente luminica
LED
Sistema óptico
Difusor ópalo (OPD)
Cableado
Equipo de control electrónico FIX (ECG)
Material
Cuerpo: polycarbonato
Difusor: polycarbonato
Accesorios
Sensor de microondas
Vida útil
40,000 horas/L70/B50 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

IT

Installazione
A plafone (SFD)
Sorgente luminosa
LED
Sistema ottico
Diffusore opale (OPD)
Cablaggio
Ballast elettronico FIX (ECG)
Materiali
Corpo: polycarbonato
Diffusore: polycarbonato
Accessori
Sensore a microonde
Durata di vita
40,000 ore/L70/B50 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

RU

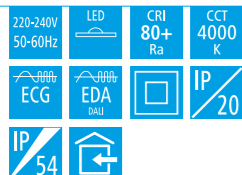
Установка
Потолочная накладная (SFD)
Источник света
LED
Оптическая система
Матовый рассеиватель (OPD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Материал
Корпус: поликарбонат
Рассеиватель: поликарбонат
Аксессуары
Микроволновый датчик
Срок службы
40,000 часов/L70/B50 (та 25°C)
Температура окружающей среды
От -20 °C до +35 °C



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE	WEIGHT (kg)
PERLITA L	2350	24	98	80+	4000	64°	1.4

Luminous flux tolerance +/- 10%

Perlita



EN

Mounting
Ceiling recessed
Light source
LED
Optical system
Facet reflector (FRE)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Materials
Housing: aluminium
Trim: die-cast aluminium
Reflector: facet anodised aluminium
Cover: transparent hardened glass
Surface finish
Trim: white RAL 9003 (W03)
Service lifetime
40,000 hours/L70/B50 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C

DE

Montage
Einbauleuchte
Lichtquelle
LED
Optisches System
Facettierter Reflektor (FRE)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Material
Körper: Aluminium
Einfassung: Aluminiumdruckguss
Reflektor: facettiertes eloxiertes Aluminium
Abdeckung: durchsichtig gehärteter Glas
Oberflächenveredelung
Einfassung: weiss RAL 9003 (W03)
Lebensdauer
40,000 Stunden/L70/B50 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Plafonnier encastrable
Source lumineuse
LED
Système optique
Facetté réflecteur (FRE)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Matériels
Corps: aluminium
Moulure: aluminium moulé sous pression
Réflecteur: facettiertes eloxiertes Aluminium
Couvercle: verre trempé transparente
Finition de surface
Moulure: blanc RAL 9003 (W03)
Durée de vie utile
40,000 heures/L70/B50 (ta 25°C)
Température ambiante
De -20 °C à +35 °C

SK

Montáž
Vsadené
Svetelný zdroj
LED
Optický systém
Fazetový reflektor (FRE)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Material
Teleso: hliník
Obruč: hliníkový odliatok
Reflektor: anodizovaný fazetový hliník
Kryt: transparentný polykarbonát
Povrchová úprava
Obruč: biela RAL 9003 (W03)
Servisná životnosť
40,000 hodín/L70/B50 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Empotradas en el techo
Fuente luminica
LED
Sistema óptico
Reflector facetado (FRE)
Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)
Material
Cuerpo: aluminio
Aro: aluminio presofundido
Reflector: aluminio anodizado facetado
Cubierta: cristal endurecido transparente
Tratamiento de la superficie
Aro: blanco RAL 9003 (W03)
Vida útil
40,000 horas/L70/B50 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

IT

Installazione
Ad incasso a soffitto
Sorgente luminosa
LED
Sistema ottico
Riflettore sfaccettato (FRE)
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Materiali
Corpo: alluminio
Profilo: pressofusione di alluminio
Riflettore: alluminio anodizzato sfaccettato
Copertura: vetro temperato trasparente
Finitura
Profilo: bianco RAL 9003 (W03)
Durata di vita
40,000 ore/L70/B50 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

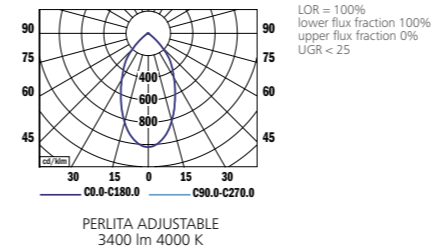
RU

Установка
Потолочная встроенная
Источник света
LED
Оптическая система
Рифленый отражатель (FRE)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Материал
Корпус: алюминий
Накладка: литой алюминий
Отражатель: рифленый анодированный алюминий
Крышка: чистое закаленное стекло
Отделка поверхности
Накладка: белый RAL 9003 (W03)
Срок службы
40,000 часов/L70/B50 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C

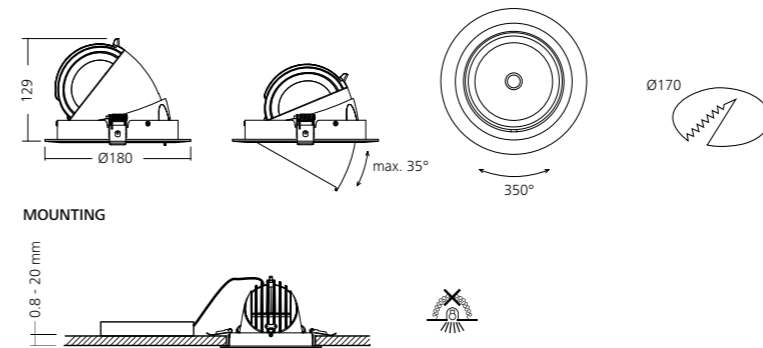
PERLITA ADJUSTABLE
FACET
LED



Perlita Adjustable



LED LUMINAIRES



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE	WEIGHT (kg)
PERLITA M ADJUSTABLE FIX/DALI	2600	24/25	108/104	80+	3000	60°	1.2
PERLITA M ADJUSTABLE FIX/DALI	2700	24/25	113/108	80+	4000	60°	1.2
PERLITA M ADJUSTABLE FIX/DALI	3300	31/33	106/100	80+	3000	60°	1.5
PERLITA M ADJUSTABLE FIX/DALI	3400	31/33	110/103	80+	4000	60°	1.5

Luminous flux tolerance +/- 10%



220-240V 50-60Hz
LED
CRI 80+ Ra
CCT 3000 K
CCT 4000 K
IP 20
ECG
EDA DALI

EN
Mounting
Ceiling recessed
Light source
LED
Optical system
Facet reflector (FRE)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Materials
Housing: die-cast aluminium
Reflector: facet anodised aluminium
Trim: die-cast aluminium
Cover: transparent hardened glass
Surface finish
Trim: white RAL 9003 (W03)
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C

DE
Montage
Einbauleuchte
Lichtquelle
LED
Optisches System
Facettierter Reflektor (FRE)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Material
Körper: Aluminiumdruckguss
Reflektor: facettiertes eloxiertes Aluminium
Einfassung: Aluminiumdruckguss
Abdeckung: durchsichtig gehärteter Glas
Oberflächenveredelung
Einfassung: weiss RAL 9003 (W03)
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C

FR
Montage
Plafonnier encastrable
Source lumineuse
LED
Système optique
Facetté réflecteur (FRE)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Matériels
Corps: aluminium moulé sous pression
Réflecteur: aluminium à l'aspect anodisé
Moulure: aluminium moulé sous pression
Couvercle: verre trempé transparente
Finition de surface
Moulure: blanc RAL 9003 (W03)
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -20 °C à +35 °C

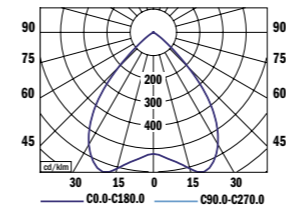
SK
Montáž
Vsadené
Svetelný zdroj
LED
Optický systém
Fazetový reflektor (FRE)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Material
Teleso: hliníkový odliatok
Reflektor: anodizovaný fazetový hliník
Obruč: hliníkový odliatok
Kryt: transparentné tvrdené sklo
Povrchová úprava
Obruč: biela RAL 9003 (W03)
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C

ES
Montaje
Empotradas en el techo
Fuente luminica
LED
Sistema óptico
Reflector facetado (FRE)
Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)
Material
Cuerpo: aluminio moldeado
Reflector: aluminio anodizado facetado
Aro: aluminio presofundido
Cubierta: cristal endurecido transparente
Tratamiento de la superficie
Aro: blanco RAL 9003 (W03)
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C

IT
Installazione
Ad incasso a soffitto
Sorgente luminosa
LED
Sistema ottico
Riflettore sfaccettato (FRE)
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Materiali
Corpo: pressofusione di alluminio
Riflettore: alluminio anodizzato sfaccettato
Profilo: pressofusione di alluminio
Copertura: vetro temperato trasparente
Finitura
Profilo: bianco RAL 9003 (W03)
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C

RU
Установка
Потолочная встроенная
Источник света
LED
Оптическая система
Рифленый отражатель (FRE)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Материал
Корпус: литой алюминий
Отражатель: рифленый анодированный алюминий
Накладка: литой алюминий
Крышка: чистое закаленное стекло
Отделка поверхности
Накладка: белый RAL 9003 (W03)
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C

TUBUS 292 LED
POLISHED
LED

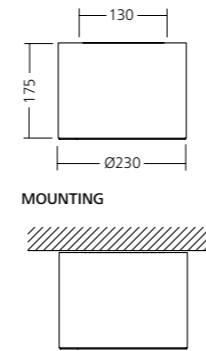


LOR = 100%
lower flux fraction 100%
upper flux fraction 0%
UGR < 19

TUBUS 292 LED
1250 lm 3000 K



LED LUMINAIRES



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE	WEIGHT (kg)
TUBUS 292 LED	1250	12	104	80+	3000	83°	2.2
TUBUS 292 LED	1300	12	108	80+	4000	83°	2.2
TUBUS 292 LED	2050	19	108	80+	3000	83°	2.2
TUBUS 292 LED	2100	19	111	80+	4000	83°	2.2

Luminous flux tolerance +/- 10%

Tubus 292 Led



220-240V
50-60Hz

LED

CRI
80+
Ra

CCT
3000
K

CCT
4000
K

ECG

EDA
DALI

IP
20

EN

Mounting
Ceiling surfaced (SFD)

Light source
LED

Optical system
Polished reflector + transparent cover (PRT)

Wiring
Electronic control gear FIX/DALI (ECG/EDA)

Materials
Housing: sheet steel
Diffuser: microprismatic PMMA
Reflector: polished anodised aluminium
Cover: transparent glass

Surface finish
Housing: white RAL 9003 (W03)

Service lifetime
50,000 hours/L80/B10 (ta 25°C)

Ambient temperature
From -20°C to +30 ° (19W ECG)
From -20°C to +35 °

DE

Montage
Deckenleuchte (SFD)

Lichtquelle
LED

Optisches System
Polierter Reflektor + durchsichtige Abdeckung (PRT)

Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)

Material
Körper: Stahlblech
Diffusor: mikroprismatisches PMMA
Reflektor: poliertes eloxiertes Aluminium
Abdeckung: durchsichtiger Glas

Oberflächenveredelung
Körper: weiss RAL 9003 (W03)

Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)

Umgebungstemperatur
Von -20°C bis +30 ° (19W ECG)
Von -20°C bis +35 °

FR

Montage
Plafonnier apparent (SFD)

Source lumineuse
LED

Système optique
Réflecteur poli + couvercle transparente (PRT)

Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)

Matériels
Corps: tôle d'acier
Diffuseur: PMMA microprismatique
Réflecteur: aluminium anodisé poli
Couvercle: verre transparente

Finition de surface
Corps: blanc RAL 9003 (W03)

Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)

Température ambiante
De -20°C jusqu'à +30 ° (19W ECG)
De -20°C jusqu'à +35 °

SK

Montáž
Prisadené (SFD)

Svetelný zdroj
LED

Optický systém
Leštený reflektor + transparentný kryt (PRT)

Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)

Material
Teleso: oceľový plech
Difúzor: mikroprizmatický PMMA
Reflektor: leštený anodizovaný hliník
Kryt: transparentné tvrdené sklo

Povrchová úprava
Teleso: biela RAL 9003 (W03)

Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)

Teplota okolia
Od -20°C do +30 ° (19W ECG)
Od -20°C do +35 °

ES

Montaje
Sobrepuestas en el techo (SFD)

Fuente luminica
LED

Sistema óptico
Reflector pulido + cubierta transparente (PRT)

Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)

Material
Cuerpo: lámina de acero
Difusor: microprismático PMMA
Reflector: aluminio anodizado pulido
Cubierta: cristal endurecido transparente

Tratamiento de la superficie
Cuerpo: blanco RAL 9003 (W03)

Vida útil
50,000 horas/L80/B10 (ta 25°C)

Temperatura ambiente
Desde -20°C a +30 ° (19W ECG)
Desde -20°C a +35 °

IT

Installazione
A plafone (SFD)

Sorgente luminosa
LED

Sistema ottico
Riflettore lucido + copertura trasparente (PRT)

Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)

Materiali
Corpo: lamina d'acciaio
Diffusore: microprisma PMMA
Riflettore: alluminio anodizzato lucido
Copertura: vetro trasparente

Finitura
Corpo: bianco RAL 9003 (W03)

Durata di vita
50,000 ore/L80/B10 (ta 25°C)

Temperatura d'ambiente
Da -20 °C a +30 °C (19W ECG)
Da -20 °C a +35 °C

RU

Установка
Потолочная накладная (SFD)

Источник света
LED

Оптическая система
шлифованный отражатель + прозрачная крышка (PRT)

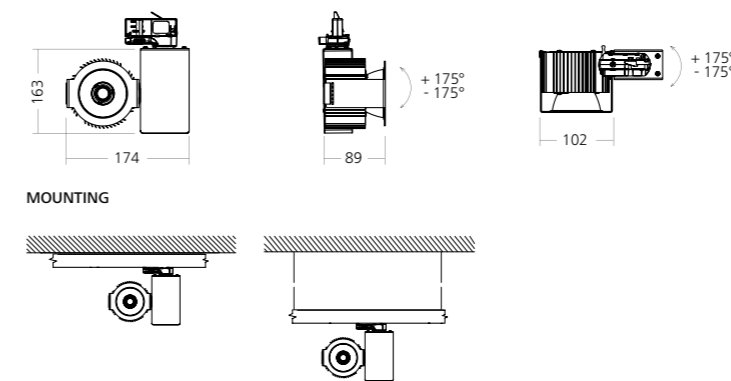
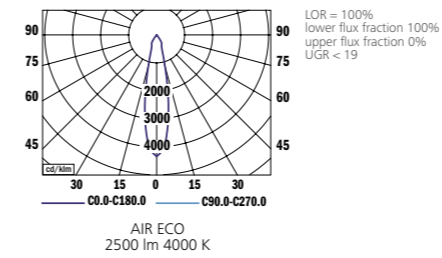
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)

Материал
Корпус: листовая сталь
Рассеиватель: микроприз. полиметилметакрилат алюминий
Крышка: чистое стекло

Отделка поверхности
Корпус: белый RAL 9003 (W03)

Срок службы
50,000 часов/L80/B10 (ta 25°C)

Температура окружающей среды
От -20 °C до +30 °C (19W ECG)
От -20 °C до +35 °C



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX (CRI (Ra))	CORRELATED COLOUR TEMPERATURE (CCT (K))	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)
AIR ECO	1500	12	125	80+	3000	24°/40°	0.9
AIR ECO	1550	12	129	80+	4000	24°/40°	0.9
AIR ECO	2400	19	126	80+	3000	24°/40°	0.9
AIR ECO	2500	19	132	80+	4000	24°/40°	0.9
AIR ECO	4000	35	114	80+	3000	24°/40°	0.9
AIR ECO	4100	35	117	80+	4000	24°/40°	0.9

Luminous flux tolerance +/- 10%



Air Eco



220-240V 50-60Hz	LED	CRI 80+ Ra	CCT 3000 K
CCT 4000 K	ECG	IP 20	

EN

Mounting
Suspended or ceiling surfaced lighting track system - suitable for GLOBAL Trac (TRS)

Light source
LED

Optical system
Facet reflector (FRE)

Wiring
Electronic control gear FIX (ECG)

Materials
Housing: die-cast aluminium + sheet steel
Reflector: facet anodised aluminium

Surface finish
Housing: white RAL 9003 (W03)

Accessories
Various types of connections and suspension equipment (ONETRACK)
Various coloured filters

Service lifetime
50,000 hours/L80/B10 (ta 25°C)

Ambient temperature
From -20 °C to +35 °C

DE

Montage
Hängende oder an der Decke angesetzte Stromschienenmontage - eignet sich für GLOBAL Trac (TRS)

Lichtquelle
LED

Optisches system
Facettierter Reflektor (FRE)

Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)

Material
Körper: Aluminiumdruckguss + Stahlblech
Reflektor: facettiertes eloxiertes Aluminium

Oberflächenveredelung
Körper: weiss RAL 9003 (W03)

Zubehör
Verschiedene Verbindungs- und Aufhängevorrichtungen (ONETRACK)
Verschiedene farbige Filter

Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)

umgebungstemperatur
Von -20 °C bis +35 °C

FR

Montage
Système d'éclairage à rail installé suspendu ou apparent - adapté au rail GLOBAL Trac (TRS)

Source lumineuse
LED

Système optique
Facetté réflecteur (FRE)

Équipement électrique
Ballast électronique FIX (ECG)

Matériels
Corps: aluminium moulé sous pression + tôle d'acier
Réflecteur: aluminium à l'aspect anodisé

Finition de surface
Corps: blanc RAL 9003 (W03)

Accessoires
Différents types de connexions et d'équipement de suspensions (ONETRACK)
Différents filtres colorés

Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)

Température ambiante
De -20 °C à +35 °C

SK

Montáž
Závěsný alebo prísadený koľajnícový systém - určené pre GLOBAL Trac (TRS)

Svetelný zdroj
LED

Optický systém
Fazetový reflektor (FRE)

Elektrická výbava
Elektronický predradník FIX (ECG)

Material
Teleso: hliníkový odliatok + oceľový plech
Reflektor: anodizovaný fazetový hliník

Povrchová úprava
Teleso: biela RAL 9003 (W03)

Príslušenstvo
Rôzne typy spojok a závesov (ONETRACK)
Rôzne farebné filtre

Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)

Teplota okolia
Od -20 °C do +35 °C

ES

Montaje
Sistema riel luminico suspendido o sobrepuesto - adecuado para GLOBAL Trac (TRS)

Fuente luminica
LED

Sistema óptico
Reflector facetado (FRE)

Cableado
Equipo de control electrónico FIX (ECG)

Material
Cuerpo: aluminio moldeado + lámina de acero
Reflector: aluminio anodizado facetado

Tratamiento de la superficie
Cuerpo: blanco RAL 9003 (W03)

Accesorios
Varios tipos de conexiones y equipos de suspensión (ONETRACK)
Varios filtros coloreados

Vida útil
50,000 horas/L80/B10 (ta 25°C)

Temperatura ambiente
Desde -20 °C a +35 °C

IT

Installazione
Sistema di illuminazione a binari, a sospensione o a plafone - adatto per GLOBAL Trac (TRS)

Sorgente luminosa
LED

Sistema ottico
Riflettore sfaccettato (FRE)

Cablaggio
Ballast elettronico FIX (ECG)

Materiali
Corpo: pressofusione di alluminio + lamina d'acciaio
Riflettore: alluminio anodizzato sfaccettato

Finitura
Corpo: bianco RAL 9003 (W03)

Accessori
Diversi tipi connessioni e accessori per la sospensione (ONETRACK)
Vari filtri colorati

Durata di vita
50,000 ore/L80/B10 (ta 25°C)

Temperatura d'ambiente
Da -20 °C a +35 °C

RU

Установка
Подвесная или накладная потолочная трековая система освещения - подходит для GLOBAL Trac (TRS)

Источник света
LED

Оптическая система
Рифленый отражатель (FRE)

Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)

Материал
Корпус: литой алюминий + листовая сталь
Отражатель: рифленый анодированный алюминий

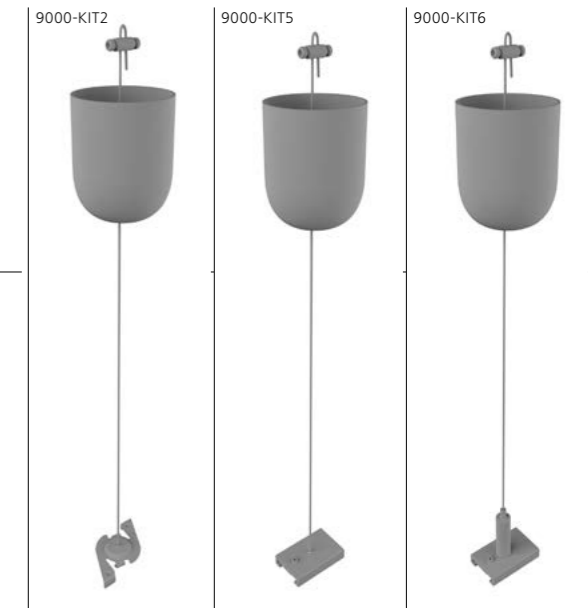
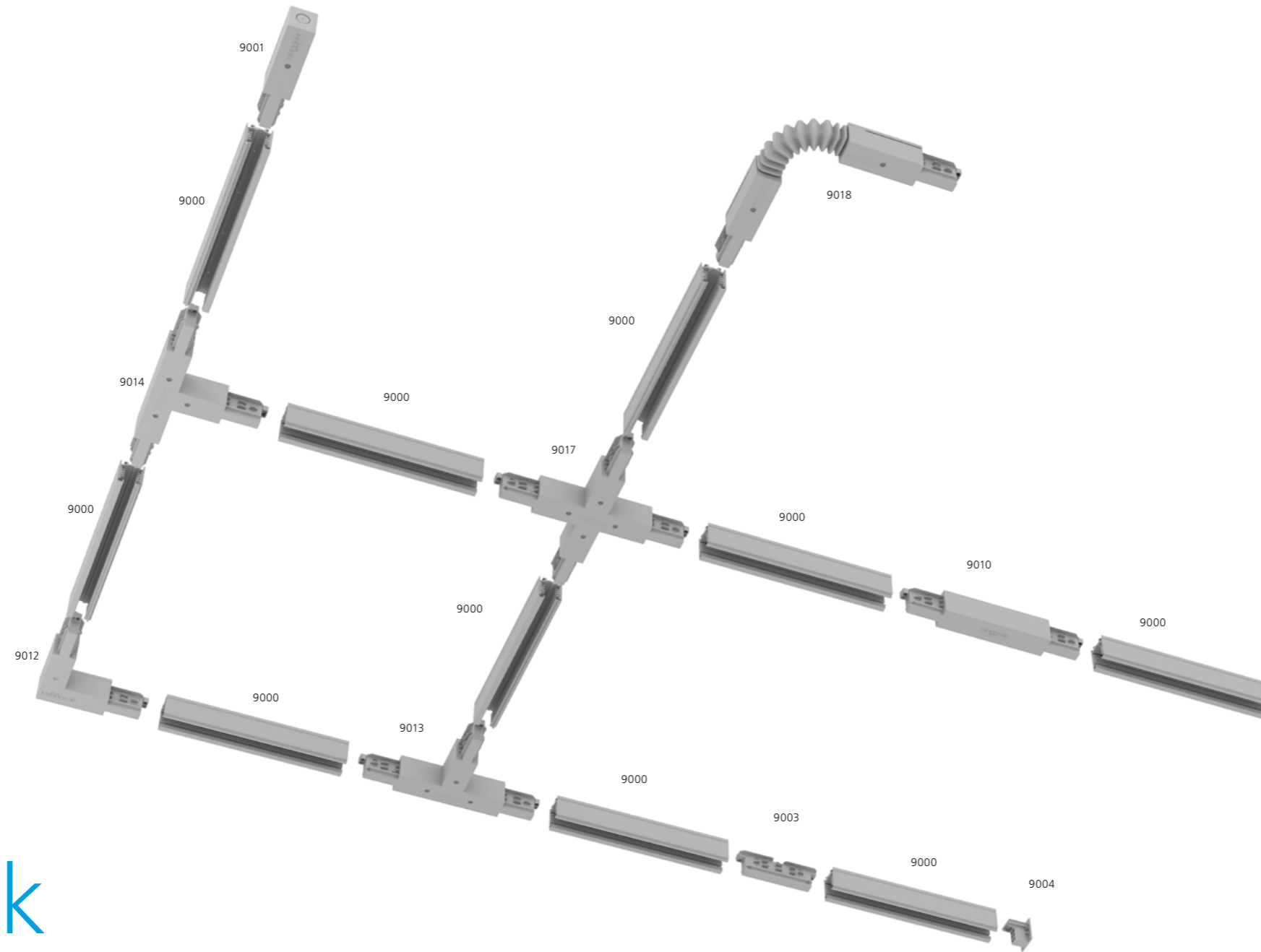
Отделка поверхности
Корпус: белый RAL 9003 (W03)

Аксессуары
Разные типы соединений и подвесного оборудования (ONETRACK)
Различные цветные фильтры

Срок службы
50,000 часов/L80/B10 (та 25°C)

Температура окружающей среды
От -20 °C до +35 °C

**TRACK SYSTEM
ONETRACK**



STANDARD VERSION / 9000-X/X-ST



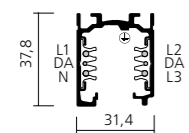
RECESSED VERSION / 9000-X/X-R



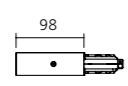
LED LUMINAIRES

Onetrack

STANDARD VERSION
9000-x/x-ST



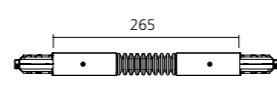
END FEED
9001 / 9002



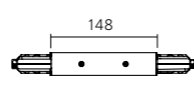
polarity groove



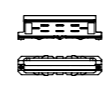
ADJUSTABLE CORNER
9018



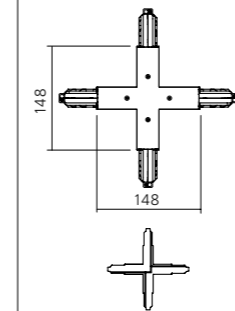
MIDDLE FEED
9010



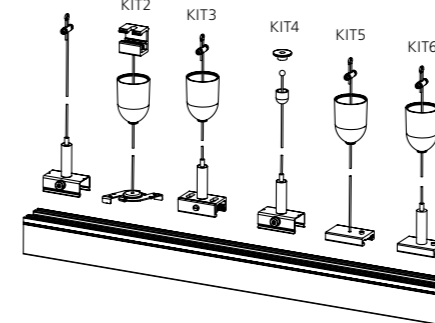
JOINT CONNECTOR
9003



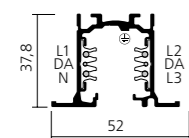
X-FEED
9017



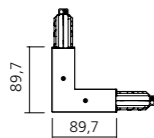
9000 - KITx



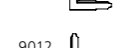
RECESSED VERSION
9000-x/x-R



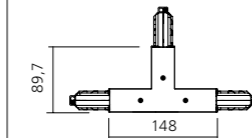
L-FEED
9011 / 9012



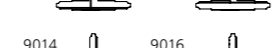
polarity groove



T-FEED
9013 / 9014 / 9015 / 9016



polarity groove

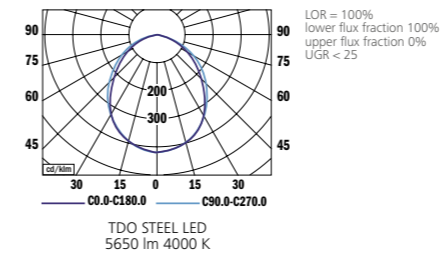


END CAP
9004

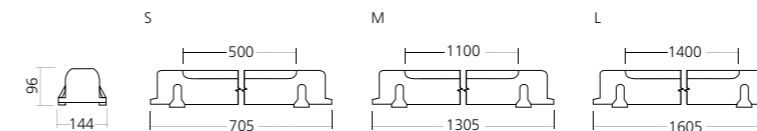


- 9000-x/x-ST** Track tube - length / colour - standard version
- 9000-x/x-R** Track tube - length / colour - recessed version
- 9001/x** End feed 1 / colour
- 9002/x** End feed 2 / colour
- 9003/x** Joint connector / colour
- 9003/x-M** Mechanical joint connector / colour
- 9004/x** End cap + locking screw / colour
- 9010/x** Middle feed / colour
- 9011/x** Internal L-feed / colour
- 9012/x** External L-feed / colour
- 9013/x** External T-feed 1 / colour
- 9014/x** External T-feed 2 / colour
- 9015/x** Internal T-feed 3 / colour
- 9016/x** Internal T-feed 4 / colour
- 9017/x** X-feed / colour
- 9018/x** Adjustable corner / colour
- 9000-KIT1-x** Suspension kit 1 - length
- 9000-KIT2-x-x** Suspension kit 2 - length - colour
- 9000-KIT3-x-x** Suspension kit 3 - length - colour
- 9000-KIT4-x-x** Suspension kit 4 - length
- 9000-KIT5-x-x** Suspension kit 5 - length - colour
- 9000-KIT6-x-x** Suspension kit 6 - length - colour

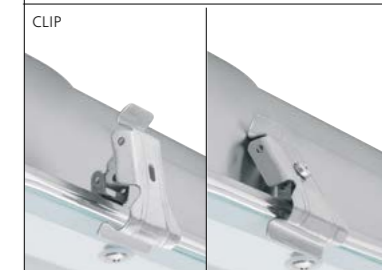
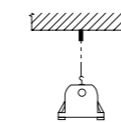
TDO STEEL LED
OPAL
STANDARD / INDUSTRIAL



LED LUMINAIRES



MOUNTING



CHS 60 L150

TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)
TDO STEEL LED S	2550	22	116	80+	3000	90°, 98°	3.2
TDO STEEL LED S	2700	22	123	80+	4000	90°, 98°	3.2
TDO STEEL LED M	5400	42	129	80+	3000	90°, 98°	5.5
TDO STEEL LED M	5650	42	135	80+	4000	90°, 98°	5.5
TDO STEEL LED M INDUSTRIAL	5400	43	126	80+	3000	90°, 98°	5.7
TDO STEEL LED M INDUSTRIAL	5650	43	131	80+	4000	90°, 98°	5.7
TDO STEEL LED L	6750	52	130	80+	3000	90°, 98°	6.7
TDO STEEL LED L	7100	52	137	80+	4000	90°, 98°	6.7
TDO STEEL LED L INDUSTRIAL	6750	53	127	80+	3000	90°, 98°	6.9
TDO STEEL LED L INDUSTRIAL	7100	53	134	80+	4000	90°, 98°	6.9

Luminous flux tolerance +/- 10%.

Tdo Steel Led



220-240V 50-60Hz	LED	CRI 80+ Ra	CCT 3000 K
CCT 4000 K	ECG	EDA DALI	
IP 65	IK 10		

EN

Mounting
Suspended (SSD)
Light source
LED
Optical system
Opal diffuser (OPD)
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
Materials
Housing: stainless steel
Clips: stainless steel, securing screws
Diffuser: sanded hardened glass
Accessories
Chain suspension
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -20 °C to +35 °C (S Standard)
To +40 °C (M, L Standard)
To +45 °C (L Industrial)
To +50 °C (M Industrial)

DE

Montage
Hängend (SSD)
Lichtquelle
LED
Optisches System
Opaler Diffusor (OPD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Material
Körper: Edelstahl
Clips: Edelstahl, Sicherungsschrauben
Diffusor: sandgestrahlte Hartglas
Zubehör
Kettenaufhängung
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +35 °C (S Standard)
Bis +40 °C (M, L Standard)
Bis +45 °C (L Industrial)
Bis +50 °C (M Industrial)

FR

Montage
Suspendu (SSD)
Source lumineuse
LED
Système optique
Diffuseur opale (OPD)
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Matériels
Corps: acier inoxydable
Barrette: acier inoxydable, vis de sreté
Diffuseur: verre trempé sablé
Accessoires
Suspension de chaîne
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -20 °C à +35 °C
À +40 °C (M, L Standard)
À +45 °C (L Industrial)
À +50 °C (M Industrial)

SK

Montáž
Závesné (SSD)
Svetelný zdroj
LED
Optický systém
Opálový difúzor (OPD)
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Material
Teleso: nehrdzavejúca oceľ
Držiaky: nehrdzavejúca oceľ, poistné skrutky
Difúzor: pieskované tvrdené sklo
Príslušenstvo
Reťazový záves
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -20 °C do +35 °C
Do +40 °C (M, L Standard)
Do +45 °C (L Industrial)
Do +50 °C (M Industrial)

ES

Montaje
Suspendidas (SSD)
Fuente luminica
LED
Sistema óptico
Difusor ópalo (OPD)
Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)
Material
Cuerpo: acero inoxidable
Enganches: acero inoxidable, tornillos de seguridad
Difusor: vidrio templado soplado
Accesorios
Cadena de suspensión
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +35 °C
A +40 °C (M, L Standard)
A +45 °C (L Industrial)
A +50 °C (M Industrial)

IT

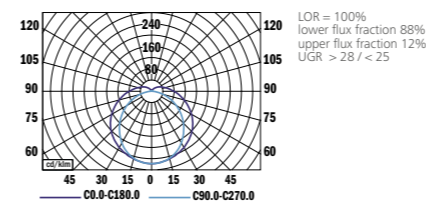
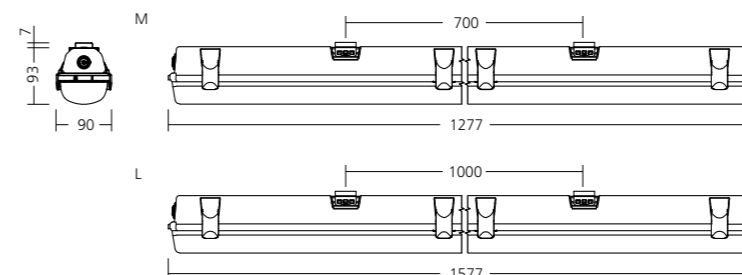
Installazione
A sospensione (SSD)
Sorgente luminosa
LED
Sistema ottico
Diffusore opale (OPD)
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Materiali
Corpo: in acciaio inox
Clip: in acciaio inox, viti di sicurezza
Diffusore: vetro temperato sabbiato
Accessori
Catena di sospensione
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +35 °C
A +40 °C (M, L Standard)
A +45 °C (L Industrial)
A +50 °C (M Industrial)

RU

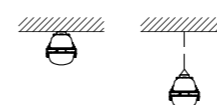
Установка
Подвесная (SSD)
Источник света
LED
Оптическая система
Матовый рассеиватель (OPD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Материал
Корпус: нержавеющая сталь
Зажимы: нержавеющая сталь, предохранительные винты
Рассеиватель: с пескоструйной обработкой
Аксессуары
Цепной подвес
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -20 °C до +35 °C
До +40 °C (M, L Standard)
До +45 °C (L Industrial)
До +50 °C (M Industrial)

NEW

TDO III ECO LED

OPAL
LEDLOR = 100%
lower flux fraction 88%
upper flux fraction 12%
UGR > 28 / < 25TDO III ECO LED L
3700 lm 4000 K

MOUNTING



TYPE	NET LUMEN OUTPUT (at Ta = 25°C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)
TDO III ECO LED M	2200	20	110	80+	3000	143°, 105°	1.7
TDO III ECO LED M	2300	20	115	80+	4000	143°, 105°	1.7
TDO III ECO LED M	4250	34	125	80+	3000	143°, 105°	1.7
TDO III ECO LED M	4400	34	129	80+	4000	143°, 105°	1.7
TDO III ECO LED M	5850	43	136	80+	3000	143°, 105°	1.7
TDO III ECO LED M	6050	43	141	80+	4000	143°, 105°	1.7
TDO III ECO LED L	3500	30	117	80+	3000	143°, 105°	1.8
TDO III ECO LED L	3700	30	123	80+	4000	143°, 105°	1.8
TDO III ECO LED L	6400	50	128	80+	3000	143°, 105°	1.8
TDO III ECO LED L	6700	50	134	80+	4000	143°, 105°	1.8
TDO III ECO LED L	8200	61	134	80+	3000	143°, 105°	1.8
TDO III ECO LED L	8600	61	141	80+	4000	143°, 105°	1.8

Luminous flux tolerance +/- 10%



INOX CLIP



RS-S 20 L150 SQ (SQUARE SHAPE) OR RD (ROUND SHAPE)



Tdo III Eco Led



220-240V 50-60Hz	LED	CRI 80+ Ra	CCT 3000 K
CCT 4000 K	ECG	EDA DALI	
IP 65	IK 10	D	

DE

Montage
Deckenleuchte/Hängend (S/S)

Lichtquelle
LED

Optisches System
Opaler Diffusor (OPD)

Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)

Material
Körper: grau Spritzguss-Polykarbonat
Clips: Polyamide / rostfreier Stahl (INOX)
Diffusor: Polykarbonat

Zubehör
Seilauflhängung

Lebensdauer
50,000 Stunden/L80/B10 (at 25°C) - 20/34/30/50W
50,000 Stunden/L90/B50 (at 25°C) - 43/61W

Umgebungstemperatur
Von -20 °C bis +25 °C (61W)
Von -20 °C bis +35 °C (Andere Versionen)

FR

Montage
Plafonnier apparent/Suspendu (S/S)

Source lumineuse
LED

Système optique
Diffuseur opale (OPD)

Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)

Matériels
Corps: polycarbonate gris injecté
Barrette: polyamide / tôle d'acier (INOX)
Diffuseur: polycarbonate

Accessoires
Câble de suspension

Durée de vie utile
50,000 heures/L80/B10 (at 25°C) - 20/34/30/50W
50,000 heures/L90/B50 (at 25°C) - 43/61W

Température ambiante
De -20 °C à +25 °C (61W)
De -20 °C à +35 °C (autres versions)

EN

Mounting
Surfaced/Suspended (S/S)

Light source
LED

Optical system
Opal diffuser (OPD)

Wiring
Electronic control gear FIX/DALI (ECG/EDA)

Materials
Housing: grey injected polycarbonate
Clips: polyamide / stainless steel (INOX)
Diffuser: polycarbonate

Accessories
Rope suspension

Service lifetime
50,000 hours/L80/B10 (at 25°C) - 20/34/30/50W
50,000 hours/L90/B50 (at 25°C) - 43/61W

Ambient temperature
From -20 °C to +25 °C (61W)
From -20 °C to +35 °C (other version)

ES

Montaje
Sobrepuestas en el techo/Suspendidas (S/S)

Fuente luminica
LED

Sistema óptico
Difusor ópalo (OPD)

Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)

Material
Cuerpo: polycarbonato gris inyectado
Enganches: poliamida / acero inoxidable (INOX)
Difusor: polycarbonato

Accesorios
Cable de suspensión

Vida útil
50,000 horas/L80/B10 (at 25°C) - 20/34/30/50W
50,000 horas/L90/B50 (at 25°C) - 43/61W

Temperatura ambiente
Desde -20 °C a +25 °C (61W)
Desde -20 °C a +35 °C (otras versiones)

IT

Installazione
A plafone/A sospensione (S/S)

Sorgente luminosa
LED

Sistema ottico
Diffusore opale (OPD)

Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)

Materiali
Corpo: polycarbonato grigio a iniezione
Clip: poliammide / acciaio inossidabile (INOX)
Diffusore: polycarbonato

Accessori
Cavo di sospensione

Durata di vita
50,000 ore/L80/B10 (at 25°C) - 20/34/30/50W
50,000 ore/L90/B50 (at 25°C) - 43/61W

Temperatura d'ambiente
Da -20 °C a +25 °C (61W)
Da -20 °C a +35 °C (altre versioni)

RU

Установка
Потолочная накладная/Подвесная (S/S)

Источник света
LED

Оптическая система
матовый рассеиватель (OPD)

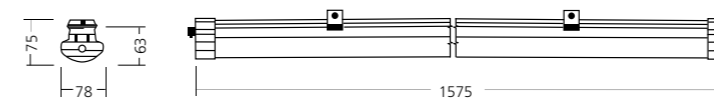
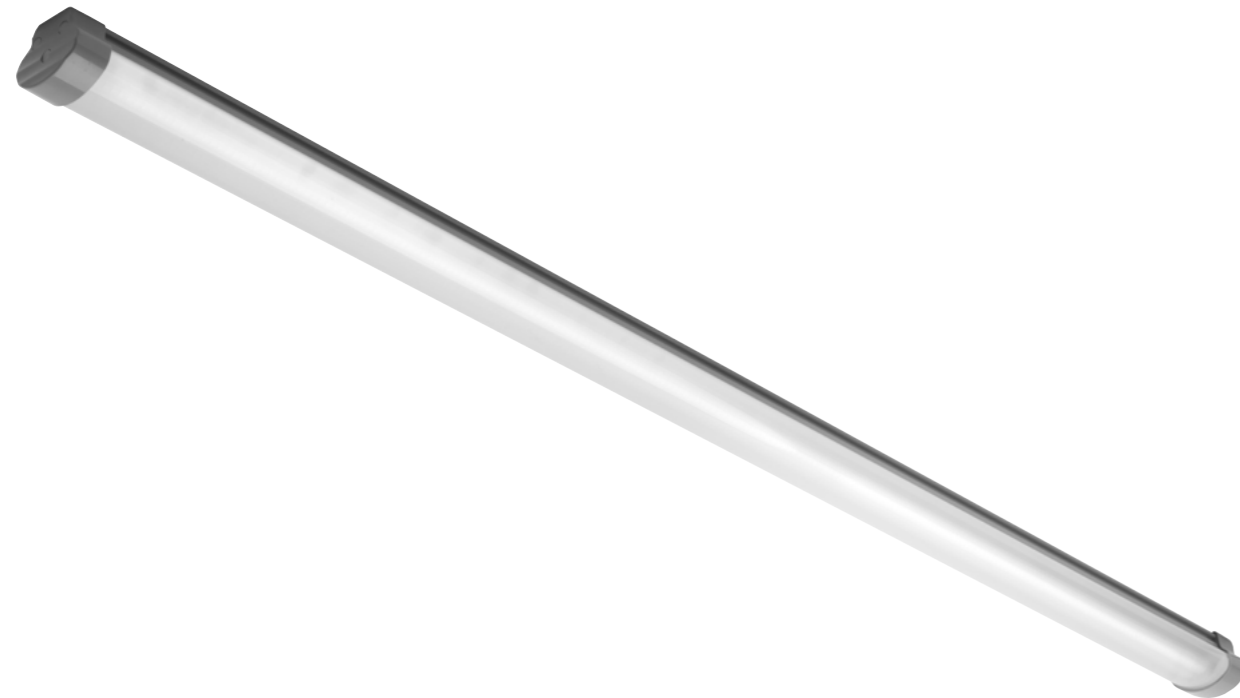
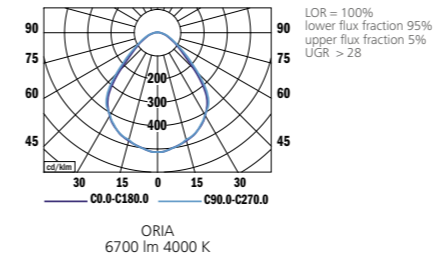
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)

Материал
Корпус: инжектированный серый поликарбонат
Зажимы: полиамид / нержавеющей сталь (INOX)
Рассеиватель: поликарбонат

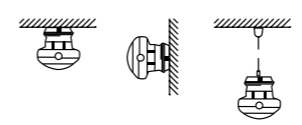
Аксессуары
Тросовый подвес

Срок службы
50,000 часов/L80/B10 (at 25°C) - 20/34/30/50W
50,000 часов/L90/B50 (at 25°C) - 43/61W

Температура окружающей среды
От -20 °C до +25 °C (61W)
От -20 °C до +35 °C (другие версии)



MOUNTING



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)
ORIA L	6700	51	131	80+	4000	115,105°	2.0

Luminous flux tolerance +/- 10%

RS-S 36 L150 SQ (SQUARE SHAPE) OR RD (ROUND SHAPE)



Oria



220-240V 50-60Hz	LED	CRI 80+ Ra	CCT 4000 K
ECG	IP 65	IK 08	

EN

Mounting
Surfaced/Suspended (S/S)
Light source
LED
Optical system
Prismatic diffuser (PRD)
Wiring
Electronic control gear FIX (ECG)
External lead-in flexible cable
Materials
Housing: grey injected polycarbonate
Diffuser: polycarbonate
Accessories
Rope suspension
Service lifetime
50,000 hours/L70/B50 (ta 25°C)
Ambient temperature
From -20 °C to +30 °C

DE

Montage
Deckenleuchte/Hängend (S/S)
Lichtquelle
LED
Optisches System
Prismatischer Diffusor (PRD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Externes Anschlusskabel
Material
Körper: grau Spritzguss-Polykarbonat
Diffusor: Polykarbonat
Zubehör
Seilaufhängung
Lebensdauer
50,000 Stunden/L70/B50 (ta 25°C)
Umgebungstemperatur
Von -20 °C bis +30 °C

FR

Montage
Plafonnier apparent/Suspendu (S/S)
Source lumineuse
LED
Système optique
Diffuseur prismatique (PRD)
Équipement électrique
Ballast électronique FIX (ECG)
Artère externe
Matériels
Corps: polycarbonate gris injecté
Diffuseur: polycarbonate
Accessoires
Câble de suspension
Durée de vie utile
50,000 heures/L70/B50 (ta 25°C)
Température ambiante
De -20 °C à +30 °C

SK

Montáž
Prisadené/Závesné (S/S)
Svetelný zdroj
LED
Optický systém
Prizmatický difúzor (PRD)
Elektrická výbava
Elektronický predradník FIX (ECG)
Prívodný napájací kábel
Material
Téleso: vstrekovaný šedý polykarbonát
Difúzor: polykarbonát
Príslušenstvo
Lankový záves
Servisná životnosť
50,000 hodín/L70/B50 (ta 25°C)
Teplota okolia
Od -20 °C do +30 °C

ES

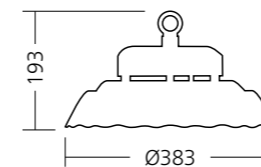
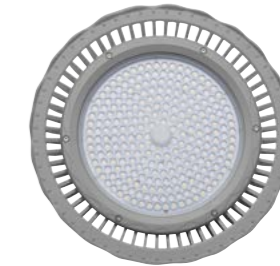
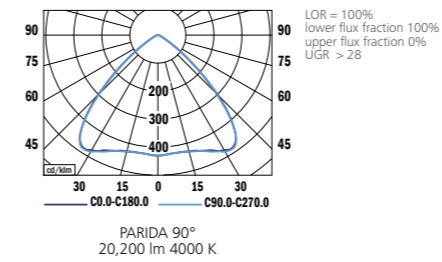
Montaje
Sobrepuestas en el techo/Suspendidas (S/S)
Fuente luminica
LED
Sistema óptico
Difusor microprismático (PRD)
Cableado
Equipo de control electrónico FIX (ECG)
Cable alimentador externo
Material
Cuerpo: polycarbonato gris inyectado
Difusor: polycarbonato
Accesorios
Cable de suspensión
Vida útil
50,000 horas/L70/B50 (ta 25°C)
Temperatura ambiente
Desde -20 °C a +30 °C

IT

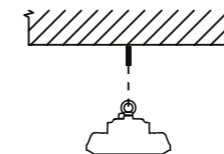
Installazione
A plafone/A sospensione(S/S)
Sorgente luminosa
LED
Sistema ottico
Diffusore prismatico (PRD)
Cablaggio
Ballast elettronico FIX (ECG)
Cavetto di alimentazione esterno
Materiali
Corpo: polycarbonato grigio a iniezione
Diffusore: polycarbonato
Accessori
Cavo di sospensione
Durata di vita
50,000 ore/L70/B50 (ta 25°C)
Temperatura d'ambiente
Da -20 °C a +30 °C

RU

Установка
Потолочная накладная/Подвесная (S/S)
Источник света
LED
Оптическая система
Призматический рассеиватель (PRD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Внешний свинца в гибком кабеле
Материал
Корпус: инжектированный серый поликарбонат
Рассеиватель: поликарбонат
Аксессуары
Тросовый подвес
Срок службы
50,000 часов/L70/B50 (ta 25°C)
Температура окружающей среды
От -20 °C до +30 °C



MOUNTING



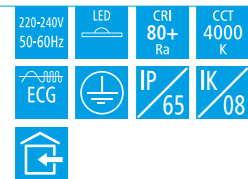
TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)
PARIDA	13,500	100	135	80+	4000	90°/50°	6.5
PARIDA	20,200	150	135	80+	4000	90°/50°	6.5
PARIDA	26,500	200	135	80+	4000	90°/50°	7.2

Luminous flux tolerance +/- 10%

CHAIN SUSPENSION



Parida



EN

Mounting
Suspended (SSD)
Light source
LED
Optical system
Lenses (LNS)
Wiring
Electronic control gear FIX (ECG)
External lead-in flexible cable
Materials
Housing: die cast aluminium
Lenses: polycarbonate
Accessories
Chain suspension
Service lifetime
50,000 hours/L70/B50 (ta 25°C)
Ambient temperature
From -30 °C to +40 °C

DE

Montage
Hängend (SSD)
Lichtquelle
LED
Optisches System
Linsen (LNS)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Externes Anschlusskabel
Material
Körper: Aluminiumdruckguss
Linsen: Polycarbonat
Zubehör
Kettenaufhängung
Lebensdauer
50,000 Stunden/L70/B50 (ta 25°C)
Umgebungstemperatur
Von -30 °C bis +40 °C

FR

Montage
Suspendu (SSD)
Source lumineuse
LED
Système optique
Lentilles (LNS)
Équipement électrique
Ballast électronique FIX (ECG)
Artère externe
Matériels
Corps: aluminium moulé sous pression
Lentilles: polycarbonate
Accessoires
Suspension de chaîne
Durée de vie utile
50,000 heures/L70/B50 (ta 25°C)
Température ambiante
De -30 °C à +40 °C

SK

Montáž
Zavesné (SSD)
Svetelný zdroj
LED
Optický systém
Šošovky (LNS)
Elektrická výbava
Elektronický predradník FIX (ECG)
Prívodný napájací kábel
Material
Teleso: hliníkový odliatok
Šošovky: polykarbonát
Príslušenstvo
Reťazový záves
Servisná životnosť
50,000 hodín/L70/B50 (ta 25°C)
Teplota okolia
Od -30 °C do +40 °C

ES

Montaje
Suspendidas (SSD)
Fuente luminica
LED
Sistema óptico
Lentes (LNS)
Cableado
Equipo de control electrónico FIX (ECG)
Cable alimentador externo
Material
Cuerpo: aluminio moldeado
Lentes: policarbonato
Accesorios
Cadena de suspensión
Vida útil
50,000 horas/L70/B50 (ta 25°C)
Temperatura ambiente
Desde -30 °C a +40 °C

IT

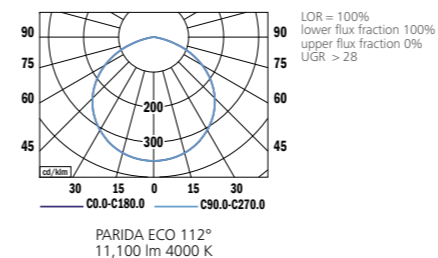
Installazione
A sospensione (SSD)
Sorgente luminosa
LED
Sistema ottico
Lenti (LNS)
Cablaggio
Ballast elettronico FIX (ECG)
Cavetto di alimentazione esterno
Materiali
Corpo: pressofusione di alluminio
Lenti: policarbonato
Accessori
Catena di sospensione
Durata di vita
50,000 ore/L70/B50 (ta 25°C)
Temperatura d'ambiente
Da -30 °C a +40 °C

RU

Установка
Подвесная (SSD)
Источник света
LED
Оптическая система
Линзы (LNS)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Внешний свинца в гибком кабеле
Material
Корпус: литой алюминий
Линзы: поликарбонат
Аксессуары
Цепной подвес
Срок службы
50,000 часов/L70/B50 (ta 25°C)
Температура окружающей среды
От -30 °C до +40 °C

NEW

PARIDA ECO TRANSPARENT LED



LED LUMINAIRES

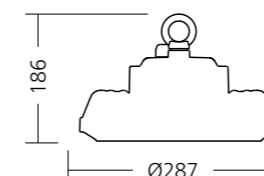
PARIDA ECO 112°



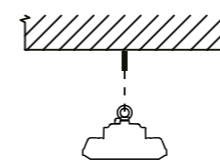
PARIDA ECO 85°



PARIDA ECO 85°



MOUNTING



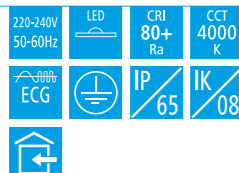
TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WEIGHT (kg)
PARIDA ECO	11,100	100	111	80+	4000	112°/85°/60°	4.1
PARIDA ECO	13,350	120	111	80+	4000	112°/85°/60°	4.1
PARIDA ECO	16,300	150	109	80+	4000	112°/85°/60°	4.1
PARIDA ECO	22,400	200	112	80+	4000	112°/85°/60°	4.5

Luminous flux tolerance +/- 10%

CHAIN SUSPENSION



Parida Eco



EN

Mounting
Suspended (SSD)
Light source
LED
Optical system
Transparent diffuser (TRD)
Wiring
Electronic control gear FIX (ECG)
External lead-in flexible cable
Materials
Housing: die cast aluminium
Cover: hardened glass (112°) or polycarbonate (85°/60°)
Accessories
Chain suspension
Service lifetime
50,000 hours/L80/B50 (ta 25°C)
Ambient temperature
From -30 °C to +35 °C

DE

Montage
Hängend (SSD)
Lichtquelle
LED
Optisches System
Durchsichtiger Diffusor (TRD)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Externes Anschlusskabel
Material
Körper: Aluminiumdruckguss
Abdeckung: gehärteter Glas (112°) oder Polycarbonat (85°/60°)
Zubehör
Kettenaufhängung
Dauerdele
50,000 Stunden/L80/B50 (ta 25°C)
Umgebungstemperatur
Von -30 °C bis +35 °C

FR

Montage
Suspendu (SSD)
Source lumineuse
LED
Système optique
Diffuseur transparente (TRD)
Équipement électrique
Ballast électronique FIX (ECG)
Artère externe
Matériels
Corps: aluminium moulé sous pression
Couvercle: verre trempé (112°) ou polycarbonate (85°/60°)
Accessoires
Suspension de chaîne
Durée de vie utile
50,000 heures/L80/B50 (ta 25°C)
Température ambiante
De -30 °C à +35 °C

SK

Montáž
Zavesné (SSD)
Svetelný zdroj
LED
Optický systém
Transparentný difúzor (TRD)
Elektrická výbava
Elektronický predradník FIX (ECG)
Prívodný napájací kábel
Material
Teleso: hliníkový odliatok
Kryt: tvrdené sklo (112°) alebo polycarbonát (85°/60°)
Príslušenstvo
Reťazový záves
Servisná životnosť
50,000 hodín/L80/B50 (ta 25°C)
Teplota okolia
Od -30 °C do +35 °C

ES

Montaje
Suspendidas (SSD)
Fuente luminica
LED
Sistema óptico
Difusor transparente (TRD)
Cableado
Equipo de control electrónico FIX (ECG)
Cable alimentador externo
Material
Cuerpo: aluminio moldeado
Cubierta: cristal endurecido (112°) o policarbonato (85°/60°)
Accesorios
Cadena de suspensión
Vida útil
50,000 horas/L80/B50 (ta 25°C)
Temperatura ambiente
Desde -30 °C a +35 °C

IT

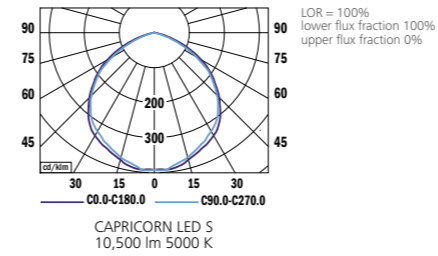
Installazione
A sospensione (SSD)
Sorgente luminosa
LED
Sistema ottico
Diffusore trasparente (TRD)
Cablaggio
Ballast elettronico FIX (ECG)
Cavetto di alimentazione esterno
Materiali
Corpo: pressofusione di alluminio
Copertura: vetro temperato (112°) o policarbonato (85°/60°)
Accessori
Catena di sospensione
Durata di vita
50,000 ore/L80/B50 (ta 25°C)
Temperatura d'ambiente
Da -30 °C a +35 °C

RU

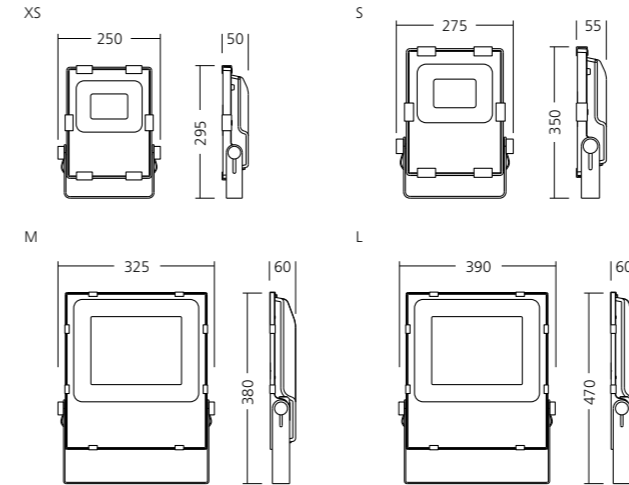
Установка
Подвесная (SSD)
Источник света
LED
Оптическая система
Чистый рассеиватель (TRD)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Внешний свинца в гибком кабеле
Material
Корпус: литой алюминий
Крышка: закаленное стекло (112°) или поликарбонат (85°/60°)
Аксессуары
Цепной подвес
Срок службы
50,000 часов/L80/B50 (ta 25°C)
Температура окружающей среды
От -30 °C до +35 °C

CAPRICORN LED

MATT
LED



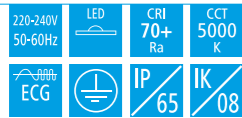
LED LUMINAIRES



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	BEAM ANGLE (C0-180, C90-270)	WINDAGE AREA (m²)	WEIGHT (kg)
CAPRICORN LED XS	6600	50	132	70+	5000	110°	0.054	2.0
CAPRICORN LED S	10,500	80	131	70+	5000	110°	0.069	3.0
CAPRICORN LED M	13,050	100	131	70+	5000	110°	0.091	3.8
CAPRICORN LED L	26,400	200	132	70+	5000	110°	0.139	5.8

Luminous flux tolerance +/- 10%

Capricorn Led



EN

Mounting
Wall mounted/pole-top installation (W/P)
Light source
LED
Optical system
Matt reflector (MRE)
Wiring
Electronic control gear FIX (ECG)
Materials
Housing: die-cast aluminium + sheet steel
Reflector: anodised aluminium
Reflector cover: transparent hardened glass
Surface finish
Housing: black RAL 9005 (B05)
Service lifetime
50,000 hours/L70/B50 (ta 25°C)
Ambient temperature
From -30 °C to +35 °C

DE

Montage
Wandleuchte/aufsatz-Installation (W/P)
Lichtquelle
LED
Optisches System
Matter Reflektor (MRE)
Vorschaltgerät
Elektronisches Vorschaltgerät FIX (ECG)
Material
Körper: Aluminiumdruckguss + Stahlblech
Reflektor: eloxiertes Aluminium
Reflektorabdeckung: transparentes Hartglas
Oberflächenveredelung
Körper: schwarz RAL 9005 (B05)
Lebensdauer
50,000 Stunden/L70/B50 (ta 25°C)
Umgebungstemperatur
Von -30 °C bis +35 °C

FR

Montage
Applique murale/installation supérieur du pôle (W/P)
Source lumineuse
LED
Système optique
Réflecteur mat (MRE)
Équipement électrique
Ballast électronique FIX (ECG)
Matériels
Corps: aluminium moulé sous pression + tôle d'acier
Reflecteur: aluminium anodisé
Protection du réflecteur: verre clair trempé
Finition de surface
Corps: noir RAL 9005 (B05)
Durée de vie utile
50,000 heures/L70/B50 (ta 25°C)
Température ambiante
De -30 °C à +35 °C

SK

Montáž
Montáž na stenu/na stĺp (W/P)
Svetelný zdroj
LED
Optický systém
Matný reflektor (MRE)
Elektrická výbava
Elektronický predradník FIX (ECG)
Material
Teleso: hliníkový odlitok + oceľový plech
Reflektor: anodizovaný hliník
Kryt reflektora: transparentné kalené sklo
Povrchová úprava
Teleso: čierna RAL 9005 (B05)
Servisná životnosť
50,000 hodín/L70/B50 (ta 25°C)
Teplota okolia
Od -30 °C do +35 °C

ES

Montaje
Montaje en pared/en poste superior (W/P)
Fuente luminosa
LED
Sistema óptico
Reflector mate (MRE)
Cableado
Equipo de control electrónico FIX (ECG)
Material
Cuerpo: aluminio moldeado + lámina de acero
Reflector: aluminio anodizado
Cubierta del reflector: Vidrio templado transparente
Tratamiento de la superficie
Cuerpo: negro RAL 9005 (B05)
Vida útil
50,000 horas/L70/B50 (ta 25°C)
Temperatura ambiente
Desde -30 °C a +35 °C

IT

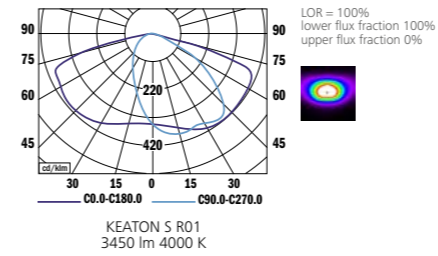
Installazione
A parete/testa palo (W/P)
Sorgente luminosa
LED
Sistema ottico
Riflettore opaco (MRE)
Cablaggio
Ballast elettronico FIX (ECG)
Materiali
Corpo: pressofusione di alluminio + lamina d'acciaio
Riflettore: alluminio anodizzato
Copertura del riflettore: vetro temprato
Finitura
Corpo: nero RAL 9005 (B05)
Durata di vita
50,000 ore/L70/B50 (ta 25°C)
Temperatura d'ambiente
Da -30 °C a +35 °C

RU

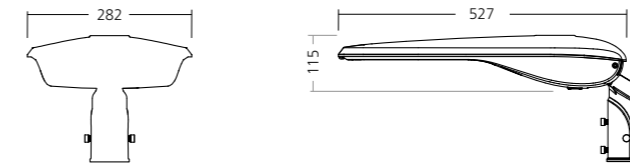
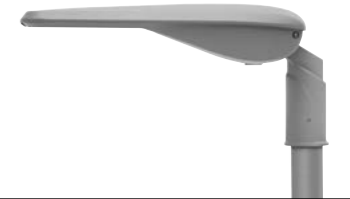
Установка
Настенная/Установка на верхушке мачты (W/P)
Источник света
LED
Оптическая система
Матовый отражатель (MRE)
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX (ECG)
Материал
Корпус: литой алюминий + листовая сталь
Отражатель: анодированный алюминий
Крышка отражателя: Прозрачное закаленное стекло
Отделка поверхности
Корпус: черный RAL 9005 (B05)
Срок службы
50,000 часов/L70/B50 (ta 25°C)
Температура окружающей среды
От -30 °C до +35 °C

KEATON S
LENSES
LED

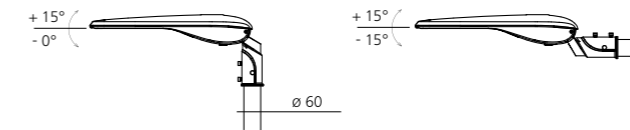
Keaton S



LED LUMINAIRES



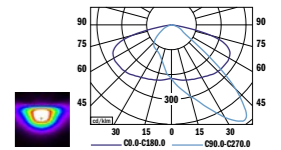
MOUNTING



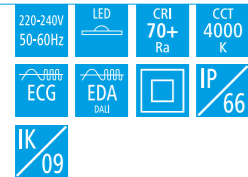
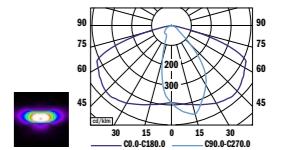
TYPE	NET LUMEN OUTPUT (at Ta = 25°C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	WINDAGE AREA SIDE / TOP (m²)	WEIGHT (kg)	RECOMMENDED MOUNTING HEIGHT (m)	REPLACEMENT OF STANDARD
KEATON S	3450	30	115	70+	4000	0.032/0.141	5.0	5-8	HPS 70 W
KEATON S	4450	35	127	70+	4000	0.032/0.141	5.0	5-8	HPS 70 W
KEATON S	5900	50	118	70+	4000	0.032/0.141	5.5	7-10	HPS 100 W

Luminous flux tolerance +/- 10%

R02



R03



EN

Mounting
Pole-top/side entry installation (PMT)
Light source
LED
Optical system
Lenses (R01)
On request: R02, R03
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
External lead-in flexible cable
Materials
Housing: die-cast aluminium
Cover: transparent hardened glass
Tilttable spigot: die cast aluminium
Surface finish
Housing: grey RAL 9006 (G06)
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -30 °C to +40 °C

DE

Montage
Aufsatz-/Seitenansatz-Installation (PMT)
Lichtquelle
LED
Optisches System
Linsen (R01)
Auf Anfrage: R02, R03
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Externes Anschlusskabel
Material
Körper: Aluminiumdruckguss
Abdeckung: durchsichtig gehärteter Glas
Schwenkbarer Zapfen: Aluminiumdruckguss
Oberflächenveredelung
Körper: grau RAL 9006 (G06)
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -30 °C bis +40 °C

FR

Montage
Installation supérieur du pôle/d'entrée latérale (PMT)
Source lumineuse
LED
Système optique
Lentilles (R01)
Sur demande: R02, R03
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Artère externe
Matériels
Corps: aluminium moulé sous pression
Couvercle: verre trempé transparente
Ergot inclinable: aluminium moulé sous pression
Finition de surface
Corps: gris RAL 9006 (G06)
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -30 °C à +40 °C

SK

Montáž
Montáž na stĺp/zó strany (PMT)
Svetelný zdroj
LED
Optický systém
Šošovky (R01)
Na požiadanie: R02, R03
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Prívodný napájací kábel
Material
Teleso: hliníkový odliatok
Kryt: transparentné tvrdené sklo
Sklopňný nástavec: hliníkový odliatok
Povrchová úprava
Teleso: šedá RAL 9006 (G06)
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -30 °C do +40 °C

ES

Montaje
Instalación en poste superior/de acceso lateral (PMT)
Fuente luminica
LED
Sistema óptico
Lentes (R01)
A petición: R02, R03
Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)
Cable alimentador externo
Material
Cuerpo: aluminio moldeado
Cubierta: cristal endurecido transparente
Espiga inclinable: aluminio moldeado
Tratamiento de la superficie
Cuerpo: gris RAL 9006 (G06)
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -30 °C a +40 °C

IT

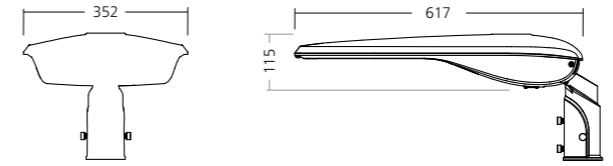
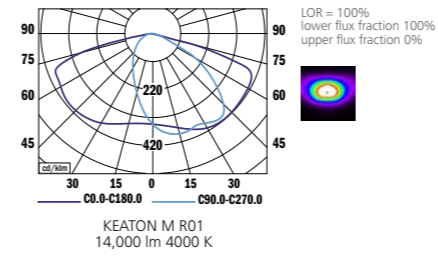
Installazione
Installazione testa palo/ingresso laterale (PMT)
Sorgente luminosa
LED
Sistema ottico
Lenti (R01)
Su richiesta: R02, R03
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Cavetto di alimentazione esterno
Materiali
Corpo: pressofusione di alluminio
Copertura: vetro temperato trasparente
Perno inclinabile: pressofusione di alluminio
Finitura
Corpo: grigio RAL 9006 (G06)
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -30 °C a +40 °C

RU

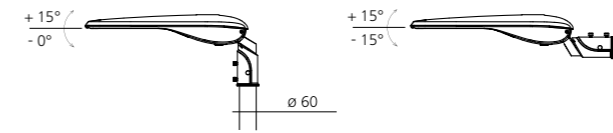
Установка
Установка на верхушке мачты / со стороны входа (PMT)
Источник света
LED
Оптическая система
Линзы (R01)
По запросу: R02, R03
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Внешний свинца в гибком кабеле
Материал
Корпус: литой алюминий
Крышка: чистое закаленное стекло
Поворотный патрубков: литой алюминий
Отделка поверхности
Корпус: серый RAL 9006 (G06)
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -30 °C до +40 °C

KEATON M
LENSES
LED

Keaton M



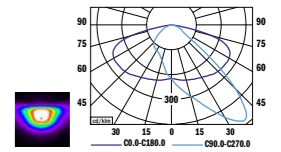
MOUNTING



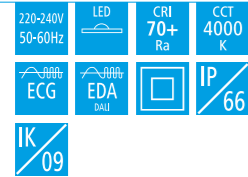
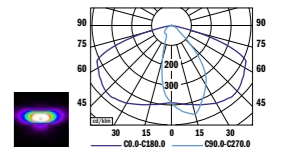
TYPE	NET LUMEN OUTPUT (at Ta = 25°) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	WINDAGE AREA SIDE / TOP (m²)	WEIGHT (kg)	RECOMMENDED MOUNTING HEIGHT (m)	REPLACEMENT OF STANDARD
KEATON M	9300	77	121	70+	4000	0.035/0.179	9.0	7-10	HPS 100 W
KEATON M	10,400	88	118	70+	4000	0.035/0.179	9.2	8-12	HPS 150 W
KEATON M	14,000	125	112	70+	4000	0.035/0.179	9.2	8-12	HPS 250 W

Luminous flux tolerance +/- 10%

R02



R03



EN

Mounting
Pole-top/side entry installation (PMT)
Light source
LED
Optical system
Lenses (R01)
On request: R02, R03
Wiring
Electronic control gear FIX/DALI (ECG/EDA)
External lead-in flexible cable
Materials
Housing: die-cast aluminium
Cover: transparent hardened glass
Tilttable spigot: die cast aluminium
Surface finish
Housing: grey RAL 9006 (G06)
Service lifetime
50,000 hours/L80/B10 (ta 25°C)
Ambient temperature
From -30 °C to +40 °C

DE

Montage
Aufsatz-/Seitenansatz-Installation (PMT)
Lichtquelle
LED
Optisches System
Linsen (R01)
Auf Anfrage: R02, R03
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI (ECG/EDA)
Externes Anschlusskabel
Material
Körper: Aluminiumdruckguss
Abdeckung: durchsichtig gehärteter Glas
Schwenkbarer Zapfen: Aluminiumdruckguss
Oberflächenveredelung
Körper: grau RAL 9006 (G06)
Lebensdauer
50,000 Stunden/L80/B10 (ta 25°C)
Umgebungstemperatur
Von -30 °C bis +40 °C

FR

Montage
Installation supérieur du pôle/d'entrée latérale (PMT)
Source lumineuse
LED
Système optique
Lentilles (R01)
Sur demande: R02, R03
Équipement électrique
Ballast électronique FIX/DALI (ECG/EDA)
Artère externe
Matériels
Corps: Aluminium moulé sous pression
Couvercle: verre trempé transparente
Ergot inclinable: aluminium moulé sous pression
Finition de surface
Corps: gris RAL 9006 (G06)
Durée de vie utile
50,000 heures/L80/B10 (ta 25°C)
Température ambiante
De -30 °C à +40 °C

SK

Montáž
Montáž na stĺp/zo strany (PMT)
Svetelný zdroj
LED
Optický systém
Šošovky (R01)
Na požiadanie: R02, R03
Elektrická výbava
Elektronický predradník FIX/DALI (ECG/EDA)
Prívodný napájací kábel
Material
Teleso: hliníkový odliatok
Kryt: transparentné tvrdené sklo
Sklopný nástavec: hliníkový odliatok
Povrchová úprava
Teleso: šedá RAL 9006 (G06)
Servisná životnosť
50,000 hodín/L80/B10 (ta 25°C)
Teplota okolia
Od -30 °C do +40 °C

ES

Montaje
Instalación en poste superior/de acceso lateral (PMT)
Fuente luminica
LED
Sistema óptico
Lentes (R01)
A petición: R02, R03
Cableado
Equipo de control electrónico FIX/DALI (ECG/EDA)
Cable alimentador externo
Material
Cuerpo: aluminio moldeado
Cubierta: cristal endurecido transparente
Espiga inclinable: aluminio moldeado
Tratamiento de la superficie
Cuerpo: gris RAL 9006 (G06)
Vida útil
50,000 horas/L80/B10 (ta 25°C)
Temperatura ambiente
Desde -30 °C a +40 °C

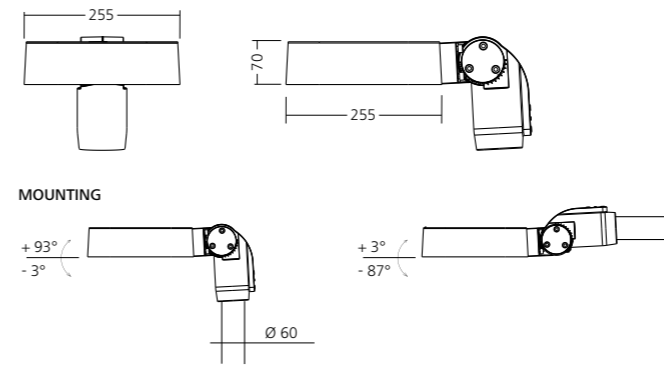
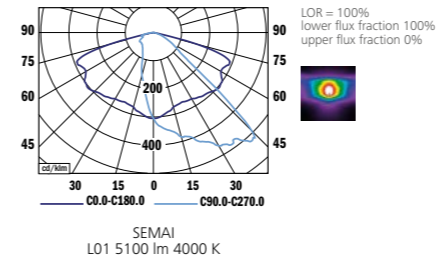
IT

Installazione
Installazione testa palo/ingresso laterale (PMT)
Sorgente luminosa
LED
Sistema ottico
Lenti (R01)
Su richiesta: R02, R03
Cablaggio
Ballast elettronico FIX/DALI (ECG/EDA)
Cavetto di alimentazione esterno
Materiali
Corpo: pressofusione di alluminio
Copertura: vetro temperato trasparente
Perno inclinabile: pressofusione di alluminio
Finitura
Corpo: grigio RAL 9006 (G06)
Durata di vita
50,000 ore/L80/B10 (ta 25°C)
Temperatura d'ambiente
Da -30 °C a +40 °C

RU

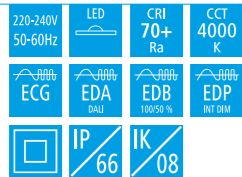
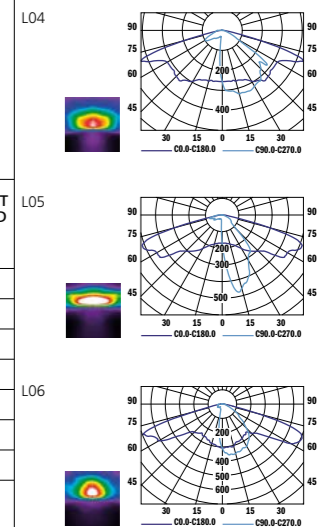
Установка
Установка на верхушке мачты / со стороны входа (PMT)
Источник света
LED
Оптическая система
Линзы (R01)
По запросу: R02, R03
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI (ECG/EDA)
Внешний свинца в гибком кабеле
Material
Корпус: литой алюминий
Крышка: чистое закаленное стекло
Поворотный патрубков: литой алюминий
Отделка поверхности
Корпус: серый RAL 9006 (G06)
Срок службы
50,000 часов/L80/B10 (ta 25°C)
Температура окружающей среды
От -30 °C до +40 °C

Semai



TYPE	NET LUMEN OUTPUT (at Ta = 25 °C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	WINDAGE AREA SIDE / TOP (m²)	WEIGHT (kg)	RECOMENDED MOUNTING HEIGHT (m)	REPLACEMENT OF STANDARD
SEMAI	3050	27	113	70+	4000	0.018/0.062	7.4	5-8	HPS 70 W
SEMAI	4100	36	114	70+	4000	0.018/0.062	7.4	5-8	HPS 70 W
SEMAI	5100	45	113	70+	4000	0.018/0.062	7.4	5-8	HPS 70 W
SEMAI	6150	54	114	70+	4000	0.018/0.062	7.9	7-10	HPS 70 W
SEMAI	7150	63	113	70+	4000	0.018/0.062	7.9	7-10	HPS 100 W
SEMAI	9200	80	115	70+	4000	0.018/0.062	7.9	7-10	HPS 100 W
SEMAI	11,100	105	106	70+	4000	0.018/0.062	7.9	8-12	HPS 150 W

Luminous flux tolerance +/- 10%



EN

Mounting
Pole-top/side entry installation (PMT)
Light source
LED
Optical system
Lenses (L01)
On request:
L04, L05, L06, L08, L09, L10, L12
Wiring
Electronic control gear FIX/DALI/STEP DIM/INT DIM (ECG/EDA/EDB/EDP)
External lead-in flexible cable
Materials
Housing: die-cast aluminium
Cover: transparent hardened glass
Frame: sheet steel
Tilttable spigot: die cast aluminium
Surface finish
Housing: grey RAL 9006 (G06)
Service lifetime
100,000 hours/L90/B10 (ta 25°C) - other versions
100,000 hours/L90/B20 (ta 25°C) - 80W
100,000 hours/L80/B20 (ta 25°C) - 105W
Ambient temperature
From -40 °C to +40 °C

DE

Montage
Aufsatz-/Seitenansatz-Installation (PMT)
Lichtquelle
LED
Optisches System
Linsen (L01)
Auf Anfrage:
L04, L05, L06, L08, L09, L10, L12
Vorschaltgerät
Elektronisches Vorschaltgerät FIX/DALI/STEP DIM/INT DIM (ECG/EDA/EDB/EDP)
Externes Anschlusskabel
Material
Körper: Aluminiumdruckguss
Abdeckung: durchsichtiger gehärteter Glas
Rahmen: Stahlblech
Schwenkbarer Zapfen: Aluminiumdruckguss
Oberflächenveredelung
Körper: grau RAL 9006 (G06)
Lebensdauer
100,000 Stunden/L90/B10 (ta 25°C) - Andere Versionen
100,000 Stunden/L90/B20 (ta 25°C) - 80W
100,000 Stunden/L80/B20 (ta 25°C) - 105W
Umgebungstemperatur
Von -40 °C bis +40 °C

FR

Montage
Installation supérieure du pôle/d'entrée latérale (PMT)
Source lumineuse
LED
Système optique
Lentilles (L01)
Sur demande:
L04, L05, L06, L08, L09, L10, L12
Équipement électrique
Ballast électronique FIX/DALI/STEP DIM/INT DIM (ECG/EDA/EDB/EDP)
Privodný napájací kábel
Matériels
Corps: aluminium moulé sous pression
Couvercle: verre trempé transparente
Cadre: tôle d'acier
Ergot inclinable: aluminium moulé sous pression
Finition de surface
Corps: gris RAL 9006 (G06)
Durée de vie utile
100,000 heures/L90/B10 (ta 25°C) - autres versions
100,000 heures/L90/B20 (ta 25°C) - 80W
100,000 heures/L80/B20 (ta 25°C) - 105W
Température ambiante
De -40 °C à +40 °C

SK

Montáž
Montáž na stĺp/zo strany (PMT)
Svetelný zdroj
LED
Optický systém
Šošovky (L01)
Na požiadanie:
L04, L05, L06, L08, L09, L10, L12
Elektrická výbava
Elektronický predradník FIX/DALI/STEP DIM/INT DIM (ECG/EDA/EDB/EDP)
Prívodný napájací kábel
Material
Teleso: hliníkový odliatok
Kryt: transparentné tvrdené sklo
Rám: oceľový plech
Sklonný nástavec: hliníkový odliatok
Povrchová úprava
Teleso: šedá RAL 9006 (G06)
Servisná životnosť
100,000 hodín/L90/B10 (ta 25°C) - iné verzie
100,000 hodín/L90/B20 (ta 25°C) - 80W
100,000 hodín/L80/B20 (ta 25°C) - 105W
Teplota okolia
Od -40 °C do +40 °C

ES

Montaje
Instalación en poste superior/de acceso lateral (PMT)
Fuente luminica
LED
Sistema óptico
Lentes (L01)
A petición:
L04, L05, L06, L08, L09, L10, L12
Cableado
Equipo de control electrónico FIX/DALI/STEP DIM/INT DIM (ECG/EDA/EDB/EDP)
Cable alimentador externo
Material
Cuerpo: aluminio moldeado
Cubierta: cristal endurecido transparente
Marco: lámina de acero
Espiga inclinable: aluminio moldeado
Tratamiento de la superficie
Cuerpo: gris RAL 9006 (G06)
Vida útil
100,000 horas/L90/B10 (ta 25°C) - otras versiones
100,000 horas/L90/B20 (ta 25°C) - 80W
100,000 horas/L80/B20 (ta 25°C) - 105W
Temperatura ambiente
Desde -40 °C a +40 °C

IT

Installazione
Installazione testa palo/ingresso laterale (PMT)
Sorgente luminosa
LED
Sistema ottico
Lenti (L01)
Su richiesta:
L04, L05, L06, L08, L09, L10, L12
Cablaggio
Ballast elettronico FIX/DALI/STEP DIM/INT DIM (ECG/EDA/EDB/EDP)
Cavetto di alimentazione esterno
Materiali
Corpo: pressofusione di alluminio
Copertura: vetro temperato trasparente
Cornice: lamina d'acciaio
Perno inclinabile: pressofusione di alluminio
Finitura
Corpo: grigio RAL 9006 (G06)
Durata di vita
100,000 ore/L90/B10 (ta 25°C) - altre versioni
100,000 ore/L90/B20 (ta 25°C) - 80W
100,000 ore/L80/B20 (ta 25°C) - 105W
Temperatura d'ambiente
Da -40 °C a +40 °C

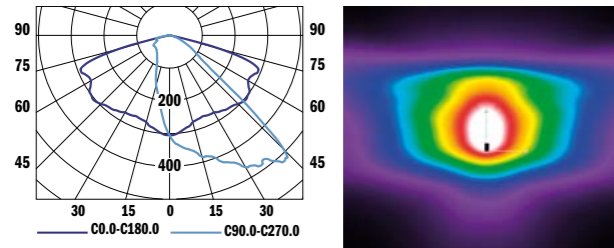
RU

Установка
Установка на верхушке мачты / со стороны входа (PMT)
Источник света
LED
Оптическая система
Линзы (L01)
По запросу:
L04, L05, L06, L08, L09, L10, L12
Электрическое оснащение
Электронный пускорегулирующий аппарат FIX/DALI/STEP DIM/INT DIM (ECG/EDA/EDB/EDP)
Внешний свинца в гибком кабеле
Материал
Корпус: литой алюминий
Крышка: чистое закаленное стекло
Каркас: листовая сталь
Поворотный патрубков: литой алюминий
Отделка поверхности
Корпус: серый RAL 9006 (G06)
Срок службы
100,000 часов/L90/B10 (ta 25°C) - другие версии
100,000 часов/L90/B20 (ta 25°C) - 80W
100,000 часов/L80/B20 (ta 25°C) - 105W
Температура окружающей среды
От -40 °C до +40 °C

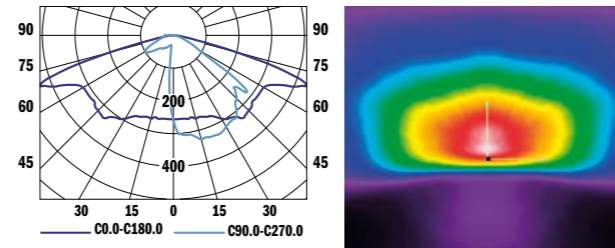
Low-glare lens optics that deliver any of 8 different LIDCs means there is a SEMAI for any application – from roads and pavements through squares and paths to junctions.



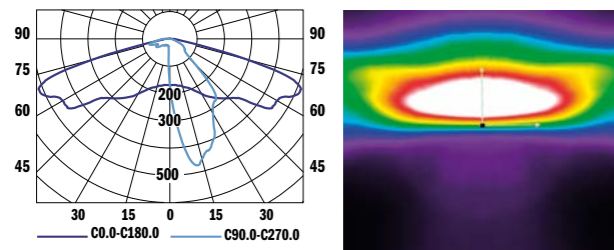
LO1
Determined for the illumination of streets with or without pavements. Light is distributed in front and to the sides of the luminaire, but not behind so as to minimise light pollution.



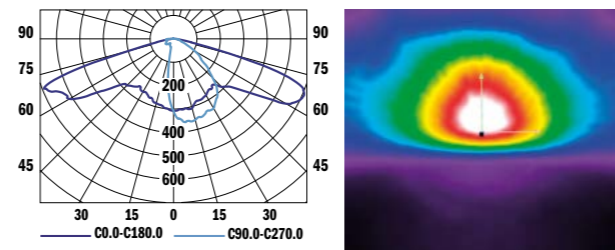
LO4
Determined for the illumination of streets with or without pavements. Light is distributed in front and to the sides of the luminaire, but not behind so as to minimise light pollution.



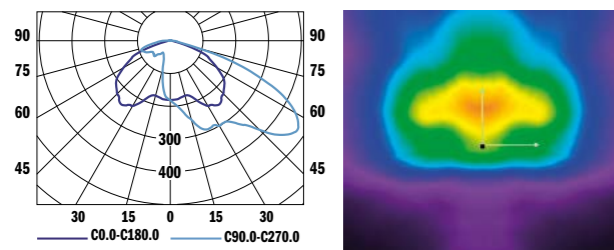
LO5
Determined for the illumination of streets with or without pavements. Light is distributed in front and to the sides of the luminaire, but not behind so as to minimise light pollution.



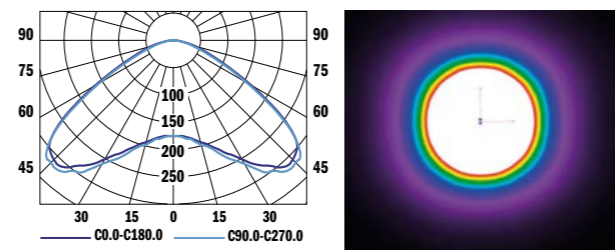
LO6
Determined for the illumination of streets with or without pavements. Light is distributed in front and to the sides of the luminaire, but not behind so as to minimise light pollution.



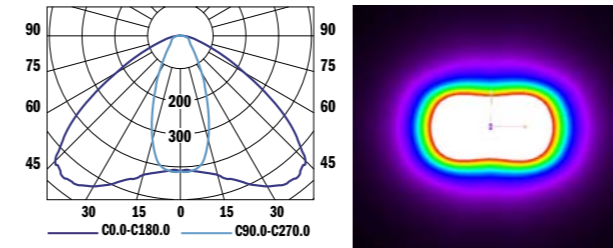
LO8
Determined for the illumination of streets with or without pavements. Light is distributed in front and to the sides of the luminaire, but not behind so as to minimise light pollution.



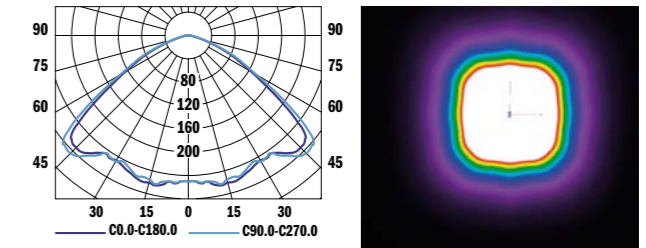
LO9
Determined for the illumination of streets with or without pavements. Light is distributed in front. Determined for the illumination of open spaces such as squares and parks. Light is distributed in all directions.



L10
Determined for the illumination of open spaces such as squares and parks. Light is distributed in all directions.



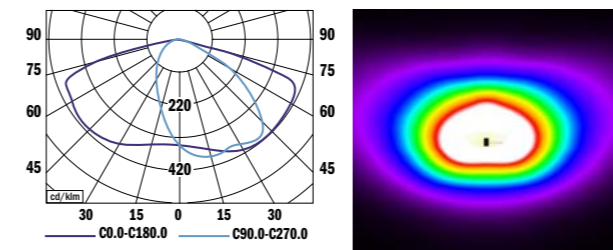
L12
Determined for the illumination of open spaces such as squares and parks. Light is distributed in all directions.



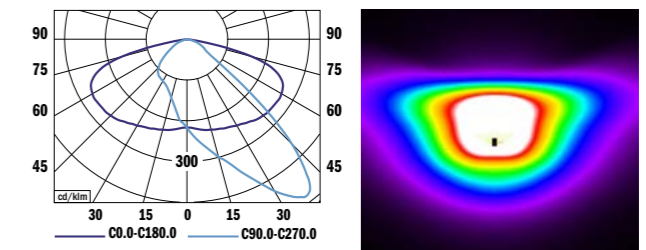
Low-glare lens optics that deliver any of 3 different LIDCs means there is a KEATON for any roads application.



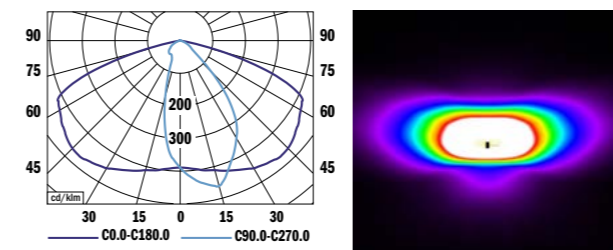
R01
Determined for the illumination of streets with or without pavements. Light is distributed in front and to the sides of the luminaire, but not behind so as to minimise light pollution.



R02
Determined for the illumination of streets with or without pavements. Light is distributed in front and to the sides of the luminaire, but not behind so as to minimise light pollution.



R03
Determined for the illumination of streets with or without pavements. Light is distributed in front and to the sides of the luminaire, but not behind so as to minimise light pollution.



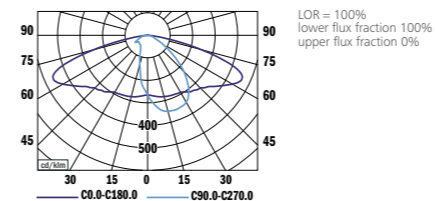
Optical system has been carefully designed by experienced optical engineers to ensure its suitability for areas where glare control is important according to Luminous Intensity Classification EN 13201-1 Appendix A1.

NEW

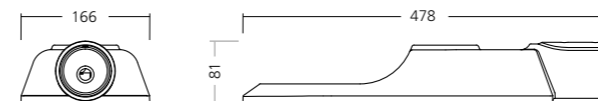
SAGAR

LENSES

LED



SAGAR
6200 lm 4000 K



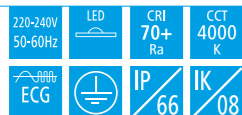
MOUNTING



TYPE	NET LUMEN OUTPUT (at Ta = 25°C) (lm)	POWER CONSUMPTION (W)	SYSTEM EFFICACY (lm/W)	COLOUR RENDERING INDEX CRI (Ra)	CORRELATED COLOUR TEMPERATURE CCT (K)	WINDAGE AREA SIDE / TOP (m²)	WEIGHT (kg)	RECOMENDED MOUNTING HEIGHT (m)	REPLACEMENT OF STANDARD
SAGAR	3700	30	123	70+	4000	0.036/0.012	2.3	5-8	HPS 70 W
SAGAR	6200	50	124	70+	4000	0.036/0.012	2.5	7-10	HPS 100 W

Luminous flux tolerance +/- 10%

Sagar



EN

Mounting

Pole-side entry installation (PMT)

Light source

LED

Optical system

Lenses

Wiring

Electronic control gear FIX (ECG)

External lead-in flexible cable

Materials

Housing: die-cast aluminium

Cover: polycarbonate

Surface finish

Housing: grey RAL 9006 (G06)

Service lifetime

50,000 hours/L70/B50 (ta 25°C)

Ambient temperature

From -30 °C to +45 °C

DE

Montage

Seitenansatz-Installation (PMT)

Lichtquelle

LED

Optisches System

Linsen

Vorschaltgerät

Elektronisches Vorschaltgerät FIX (ECG)

Externes Anschlusskabel

Material

Körper: Aluminiumdruckguss

Abdeckung: Polycarbonat

Oberflächenveredelung

Körper: grau RAL 9006 (G06)

Lebensdauer

50,000 Stunden/L70/B50 (ta 25°C)

Umgebungstemperatur

Von -30 °C bis +45 °C

FR

Montage

Installation d'entrée latérale (PMT)

Source lumineuse

LED

Système optique

Lentilles

Équipement électrique

Ballast électronique FIX (ECG)

Artère externe

Matériels

Corps: aluminium moulé sous pression

Couvercle: polycarbonate

Finition de surface

Corps: gris RAL 9006 (G06)

Durée de vie utile

50,000 heures/L70/B50 (ta 25°C)

Température ambiante

De -30 °C à +45 °C

SK

Montáž

Montáž zo strany (PMT)

Svetelný zdroj

LED

Optický systém

Šošovky

Elektrická výbava

Elektronický predradník FIX (ECG)

Prívodný napájací kábel

Material

Teleso: hliníkový odliatok

Kryt: polykarbonát

Povrchová úprava

Teleso: šedá RAL 9006 (G06)

Servisná životnosť

50,000 hodín/L70/B50 (ta 25°C)

Teplota okolia

Od -30 °C do +45 °C

ES

Montaje

Instalación de acceso lateral (PMT)

Fuente luminica

LED

Sistema óptico

Lentes

Cableado

Equipo de control electrónico FIX (ECG)

Cable alimentador externo

Material

Cuerpo: aluminio moldeado

Cubierta: policarbonato

Tratamiento de la superficie

Cuerpo: gris RAL 9006 (G06)

Vida útil

50,000 horas/L70/B50 (ta 25°C)

Temperatura ambiente

Desde -30 °C a +45 °C

IT

Installazione

Installazione ingresso laterale (PMT)

Sorgente luminosa

LED

Sistema ottico

Lenti

Cablaggio

Ballast elettronico FIX (ECG)

Cavetto di alimentazione esterno

Materiali

Corpo: pressofusione di alluminio

Copertura: policarbonato

Finitura

Corpo: grigio RAL 9006 (G06)

Durata di vita

50,000 ore/L70/B50 (ta 25°C)

Temperatura d'ambiente

Da -30 °C a +45 °C

RU

Установка

Установка со стороны входа (PMT)

Источник света

LED

Оптическая система

Линзы

Электрическое оснащение

Электронный пускорегулирующий аппарат FIX (ECG)

Внешний свинца в гибком кабеле

Материал

Корпус: литой алюминий

Крышка: поликарбонат

Отделка поверхности

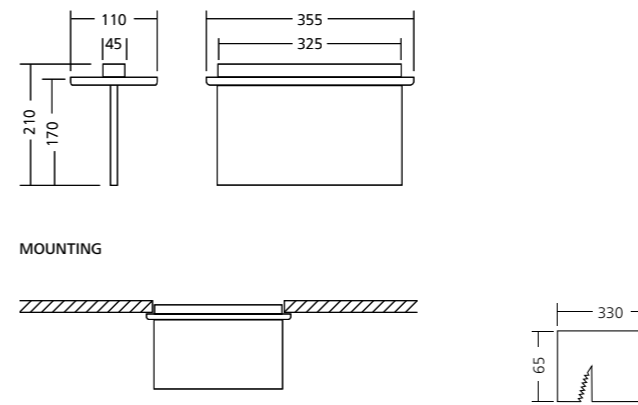
Корпус: серый RAL 9006 (G06)

Срок службы

50,000 часов/L70/B50 (ta 25°C)

Температура окружающей среды

От -30 °C до +45 °C

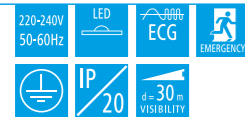


Emergency 2900

TYPE	NR. OF LED'S	POWER CONSUMPTION (W)	BATTERY Ni-Cd (V/Ah)	DURATION (h)	LIGHT OUTPUT (lm)	MAINTENANCE		EEC	WEIGHT (kg)
						D/M	UD/NM		
EMERGENCY 2901	15	1.2	3.6 / 1	1	20	-	•	A++ / A+ / A	2.0
EMERGENCY 2902	15	1.2	3.6 / 1.5	3	20	-	•	A++ / A+ / A	2.0
EMERGENCY 2904	15	1.2	3.6 / 1	1	20 / 20	•	-	A++ / A+ / A	2.0
EMERGENCY 2906	15	1.2	3.6 / 1.5	3	20 / 20	•	-	A++ / A+ / A	2.1

D/M-Maintained
UD/NM-Nonmaintained

LABELS



EN

Mounting
Ceiling recessed
Light source
LED
Optical system
Diffuser
Wiring
Ni-Cd battery (protection of battery against overload and discharge)
LED charging indicator
Test pushbutton
Materials
Housing: sheet steel
Diffuser: plexiglass
Accessories
Emergency labels are standardly included in the package

DE

Montage
Einbauleuchte
Lichtquelle
LED
Optisches System
Diffusor
Vorschaltgerät
Ni - Cd Akku (Akkuschutz vor der Überlastung und Entladung)
LED Indikator der Aufladung
Test-Taster
Material
Körper: Stahlblech
Diffusor: Plexiglas
Zubehör
Notlicht-Labels sind standardmässig in Verpackung inbegriffen

FR

Montage
Plafonnier encastrable
Source lumineuse
LED
Système optique
Diffuseur
Équipement électrique
Batterie Ni-Cd (Protection de la batterie contre la surcharge et le déchargement)
LED indicateur de rechargement
Bouton de contrôle
Matériels
Corps: tôle d'acier
Diffusor: plexiglas
Accessoires
Étiquettes de secours sont inclus dans l'emballage

SK

Montáž
Vsadené
Svetelný zdroj
LED
Optický systém
Difúzor
Elektrická výbava
Ni-Cd batéria (Ochrana batérie pred preťažením a vybitím)
LED indikátor nabíjania
Testovacie tlačidlo
Material
Teleso: oceľový plech
Difúzor: plexisklo
Príslušenstvo
Núdzové etikety sú štandardne zahrnuté v baliku

ES

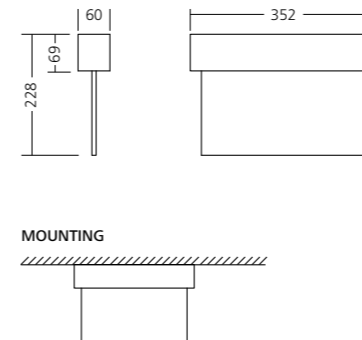
Montaje
Empotradas en el techo
Fuente luminica
LED
Sistema óptico
Difusor
Cableado
Batería Ni-Cd (Protección de la batería contra sobrecarga y descarga)
Indicador LED de carga
Pulsador de prueba
Material
Cuerpo: lámina de acero
Difusor: plexiglas
Accesorios
Rótulos de emergencia están incluidos de forma estándar en el embalaje

IT

Installazione
Ad incasso a soffitto
Sorgente luminosa
LED
Sistema ottico
Diffusore
Cablaggio
Batteria Ni-Cd (Protezione della batteria contro sovraccarico e scaricamento)
Indicatore LED di carica
Pulsante di test
Materiali
Corpo: lamina d'acciaio
Diffusore: plexiglass
Accessori
Etichette per apparecchi d'emergenza sono già compresi nella confezione

RU

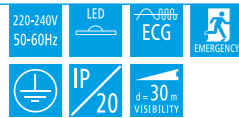
Установка
Потолочная встроенная
Источник света
LED
Оптическая система
Рассеиватель
Электрическое оснащение
Ni-Cd батарея (Защита батарейки от перегрузки и разрядки)
LED индикатор зарядки
Тестирующая кнопка
Материал
Корпус: листовая сталь
Рассеиватель: Плексиглас
Аксессуары
Наклейки аварийных выходов включены в стандартный комплект



Emergency 2910

TYPE	NR. OF LED'S	POWER CONSUMPTION	BATTERY Ni-Cd	DURATION	LIGHT OUTPUT	MAINTENANCE	EEC	WEIGHT (kg)
		(W)	(V/Ah)	(h)	(lm)	D/M UD/NM		
EMERGENCY 2911	15	1.2	3.6 / 1	1	30	-	A++ / A+ / A	1.2
EMERGENCY 2912	15	1.2	3.6 / 1.5	3	30	-	A++ / A+ / A	1.2
EMERGENCY 2914	15	1.2	3.6 / 1	1	30 / 30	•	A++ / A+ / A	1.2
EMERGENCY 2916	15	1.2	3.6 / 1.5	3	30 / 30	•	A++ / A+ / A	1.2

D/M-Maintained
UD/NM-Nonmaintained



EN

Mounting
Ceiling surfaced
Light source
LED
Optical system
Diffuser
Wiring
Ni-Cd battery (protection of battery against overload and discharge)
LED charging indicator
Test pushbutton
Materials
Housing: sheet steel
Diffuser: plexiglass
Accessories
Emergency labels are standardly included in the package

DE

Montage
Deckenleuchte
Lichtquelle
LED
Optisches System
Diffusor
Vorschaltgerät
Ni - Cd Akku (Akkuschutz vor der Überlastung und Entladung)
LED Indikator der Aufladung
Test-Taster
Material
Körper: Stahlblech
Diffusor: Plexiglas
Zubehör
Notlicht-Labels sind standardmäßig in Verpackung inbegriffen

FR

Montage
Plafonnier apparent
Source lumineuse
LED
Système optique
Diffuseur
Équipement électrique
Batterie Ni-Cd (Protection de la batterie contre la surcharge et le déchargement)
LED indicateur de rechargement
Bouton de contrôle
Matériels
Corps: tôle d'acier
Diffusor: plexiglas
Accessoires
Étiquettes de secours sont inclus dans l'emballage

SK

Montáž
Prisadené
Svetelný zdroj
LED
Optický systém
Difúzor
Elektrická výbava
Ni-Cd batéria (Ochrana batérie pred preťažením a vybitím)
LED indikátor nabíjania
Testovacie tlačidlo
Materiál
Teleso: ocelový plech
Difúzor: plexisklo
Príslušenstvo
Núdzové etikety sú štandardne zahrnuté v baliku

ES

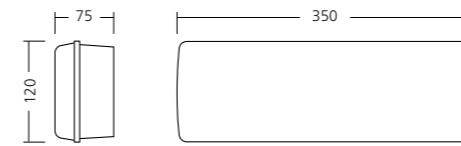
Montaje
Sobrepuestas en el techo
Fuente luminica
LED
Sistema óptico
Difusor
Cableado
Batería Ni-Cd (Protección de la batería contra sobrecarga y descarga)
Indicador LED de carga
Pulsador de prueba
Material
Cuerpo: lámina de acero
Difusor: plexiglas
Accesorios
Rótulos de emergencia están incluidos de forma estándar en el embalaje

IT

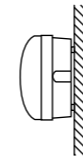
Installazione
A plafone
Sorgente luminosa
LED
Sistema ottico
Diffusore
Cablaggio
Batteria Ni-Cd (Protezione della batteria contro sovraccarico e scaricamento)
Indicatore LED di carica
Pulsante di test
Materiali
Corpo: lamina d'acciaio
Diffusore: plexiglass
Accessori
Etichette per apparecchi d'emergenza sono già compresi nella confezione

RU

Установка
Потолочная накладная
Источник света
LED
Оптическая система
Рассеиватель
Электрическое оснащение
Ni-Cd батарея (Защита батарейки от перегрузки и разрядки)
LED индикатор зарядки
Тестирующая кнопка
Материал
Корпус: листовая сталь
Рассеиватель: Плексиглас
Аксессуары
Наклейки аварийных выходов включены в стандартный комплект



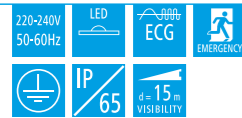
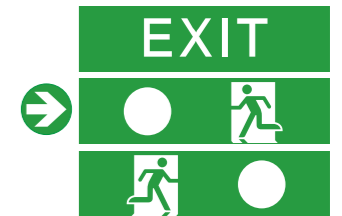
MOUNTING



Emergency 2921

TYPE	NR. OF LED'S	POWER CONSUMPTION	BATTERY Ni-Cd	DURATION	LIGHT OUTPUT	MAINTENANCE		EEC	WEIGHT (kg)
		(W)	(V/Ah)	(h)	(lm)	D/M	UD/NM		
EMERGENCY 2921	28	1.3	3.6 / 1.5	3	150	-	•	A++ / A+ / A	0.8
D/M-Maintained UD/NM-Nonmaintained									

LABELS



EN

Mounting
Wall mounted
Light source
LED
Optical system
Diffuser
Wiring
Ni-Cd battery (protection of battery against overload and discharge)
LED charging indicator
Materials
Housing: polycarbonate
Diffuser: polycarbonate
Accessories
Emergency labels are standardly included in the package

DE

Montage
Wandleuchte
Lichtquelle
LED
Optisches System
Diffusor
Vorschaltgerät
Ni-Cd Akku (Akkuschutz vor der Überlastung und Entladung)
LED Indikator der Aufladung
Material
Körper: Polycarbonat
Diffusor: Polycarbonat
Zubehör
Notlicht-Labels sind standardmässig in Verpackung inbegriffen

FR

Montage
Applique murale
Source lumineuse
LED
Système optique
Diffuseur
Équipement électrique
Batterie Ni-Cd (Protection de la batterie contre la surcharge et le déchargement)
LED indicateur de rechargement
Matériels
Corps: polycarbonate
Diffuseur: polycarbonate
Accessoires
Étiquettes de secours sont inclus dans l'emballage

SK

Montáž
Montáž na stenu
Svetelný zdroj
LED
Optický systém
Difúzor
Elektrická výbava
Ni-Cd batéria (Ochrana batérie pred preťažením a vybitím)
LED indikátor nabíjania
Material
Teleso: polykarbonát
Difúzor: polykarbonát
Príslušenstvo
Núdzové etikety sú štandardne zahrnuté v baliku

ES

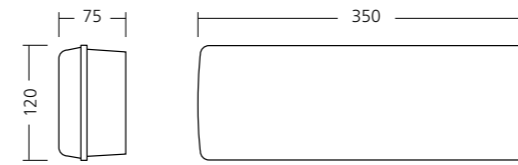
Montaje
Montaje en pared
Fuente luminica
LED
Sistema óptico
Difusor
Cableado
Batería Ni-Cd (Protección de la batería contra sobrecarga y descarga)
Indicador LED de carga
Material
Cuerpo: policarbonato
Difusor: policarbonato
Accesorios
Rótulos de emergencia están incluidos de forma estándar en el embalaje

IT

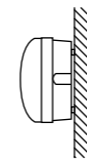
Installazione
A parete
Sorgente luminosa
LED
Sistema ottico
Diffusore
Cablaggio
Batteria Ni-Cd (Protezione della batteria contro sovraccarico e scaricamento)
Indicatore LED di carica
Materiali
Corpo: policarbonato
Diffusore: policarbonato
Accessori
Etichette per apparecchi d'emergenza sono già compresi nella confezione

RU

Установка
Настенная
Источник света
LED
Оптическая система
Рассеиватель
Электрическое оснащение
Ni-Cd батарея (Защита батарейки от перегрузки и разрядки)
LED индикатор зарядки
Материал
Корпус: поликарбонат
Рассеиватель: поликарбонат
Аксессуары
Наклейки аварийных выходов включены в стандартный комплект



MOUNTING

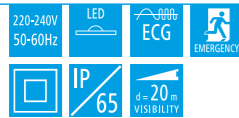


Emergency 2930

TYPE	NR. OF LED'S	POWER CONSUMPTION	BATTERY Ni-Cd	DURATION	LIGHT OUTPUT	MAINTENANCE	EEC	WEIGHT (kg)
		(W)	(V/Ah)	(h)	(lm)	D/M UD/NM		
EMERGENCY 2931	8	1	3.6 / 1.5	3	110	- •	A++ / A+ / A	0.7
EMERGENCY 2932	8	1	3.6 / 1.5	3	110 / 110	• -	A++ / A+ / A	0.7
EMERGENCY 2933	8	1	3.6 / 1	1	110	- •	A++ / A+ / A	0.7
EMERGENCY 2934	8	1	3.6 / 1	1	110 / 110	• -	A++ / A+ / A	0.7

D/M-Maintained
UD/NM-Nonmaintained

LABELS



EN

Mounting
Wall mounted
Light source
LED
Optical system
Diffuser
Wiring
Ni-Cd battery (protection of battery against overload and discharge)
LED charging indicator
Materials
Housing: polycarbonate
Diffuser: polycarbonate
Accessories
Emergency labels are standardly included in the package

DE

Montage
Wandleuchte
Lichtquelle
LED
Optisches System
Diffusor
Vorschaltgerät
Ni-Cd Akku (Akkuschutz vor der Überlastung und Entladung)
LED Indikator der Aufladung
Material
Körper: Polycarbonat
Diffusor: Polycarbonat
Zubehör
Notlicht-Labels sind standardmässig in Verpackung inbegriffen

FR

Montage
Applique murale
Source lumineuse
LED
Système optique
Diffuseur
Équipement électrique
Batterie Ni-Cd (Protection de la batterie contre la surcharge et le déchargement)
LED indicateur de rechargement
Matériels
Corps: polycarbonate
Diffuseur: polycarbonate
Accessoires
Étiquettes de secours sont inclus dans l'emballage inbegriffen

SK

Montáž
Montáž na stenu
Svetelný zdroj
LED
Optický systém
Difúzor
Elektrická výbava
Ni-Cd batéria (Ochrana batérie pred preťažením a vybitím)
LED indikátor nabíjania
Material
Teleso: polykarbonát
Difúzor: polykarbonát
Príslušenstvo
Núdzové etikety sú štandardne zahrnuté v baliku

ES

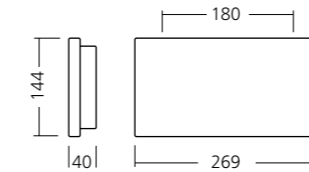
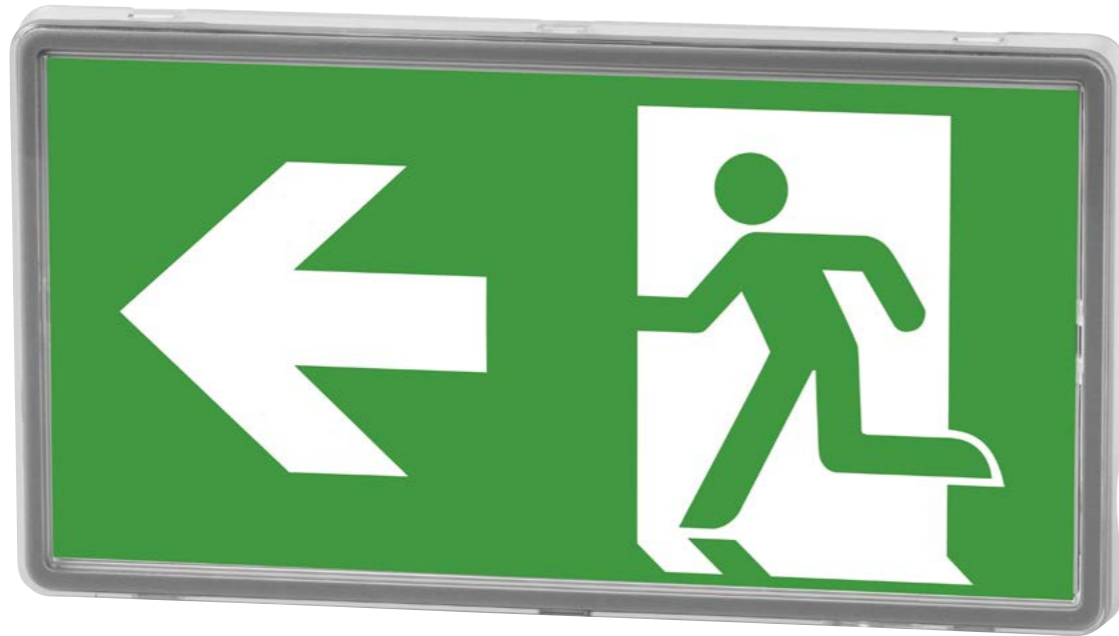
Montaje
Montaje en pared
Fuente luminica
LED
Sistema óptico
Difusor
Cableado
Batería Ni-Cd (Protección de la batería contra sobrecarga y descarga)
Indicador LED de carga
Material
Cuerpo: polycarbonato
Difusor: polycarbonato
Accesorios
Rótulos de emergencia están incluidos de forma estándar en el embalaje

IT

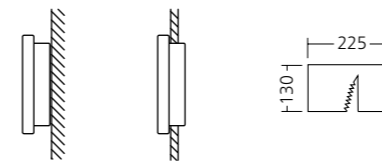
Installazione
A parete
Sorgente luminosa
LED
Sistema ottico
Diffusore
Cablaggio
Batteria Ni-Cd (Protezione della batteria contro sovraccarico e scaricamento)
Indicatore LED di carica
Materiali
Corpo: polycarbonato
Diffusore: polycarbonato
Accessori
Etichette per apparecchi d'emergenza sono già compresi nella confezione

RU

Установка
Настенная
Источник света
LED
Оптическая система
Рассеиватель
Электрическое оснащение
Ni-Cd батарея (Защита батареи от перегрузки и разрядки)
LED индикатор зарядки
Материал
Корпус: поликарбонат
Рассеиватель: поликарбонат
Аксессуары
Наклейки аварийных выходов включены в стандартный комплект



MOUNTING



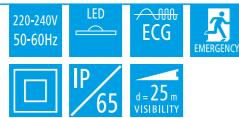
TYPE	NR. OF LED'S	POWER CONSUMPTION (W)	BATTERY Ni-Cd (V/Ah)	DURATION (h)	LIGHT OUTPUT (lm)	MAINTENANCE		EEC	WEIGHT (kg)
						D/M	UD/NM		
EMERGENCY 2981	7	1	3.6 / 1.5	3	193 / 128	•	•	A++ / A+ / A	0.6
EMERGENCY 2982	14	2	3.6 / 2.5	1	235 / 128	•	•	A++ / A+ / A	0.6
EMERGENCY 2983	14	2	3.6 / 2.5	3	235 / 128	•	•	A++ / A+ / A	0.6
EMERGENCY 2984 AT	7	1	3.6 / 1.5	3	193 / 128	•	•	A++ / A+ / A	0.6
EMERGENCY 2985 AT	14	2	3.6 / 2.5	1	235 / 128	•	•	A++ / A+ / A	0.6
EMERGENCY 2986 AT	14	2	3.6 / 2.5	3	235 / 128	•	•	A++ / A+ / A	0.6

D/M-Maintained
UD/NM-Nonmaintained
AT-Autotest

LABELS



Emergency 2980



EN

Mounting
Wall mounted
Light source
LED
Optical system
Diffuser
Wiring
Ni-Cd battery (protection of battery against overload and discharge)
LED charging indicator
Materials
Housing: polycarbonate + ABS
Diffuser: PMMA
Accessories
Emergency labels are standardly included in the package
Set for recessed installation

DE

Montage
Wandleuchte
Lichtquelle
LED
Optisches System
Diffusor
Vorschaltgerät
Ni-Cd Akku (Akkuschutz vor der Überlastung und Entladung)
LED Indikator der Aufladung
Material
Körper: Polycarbonat + ABS
Diffusor: PMMA
Zubehör
Notlicht-Labels sind standardmässig in Verpackung inbegriffen
Set für die Einbaumontage

FR

Montage
Applique murale
Source lumineuse
LED
Système optique
Diffuseur
Équipement électrique
Batterie Ni-Cd (Protection de la batterie contre la surcharge et le déchargement)
LED indicateur de rechargement
Matériels
Corps: polycarbonate + ABS
Diffusor: PMMA
Accessoires
Étiquettes de secours sont inclus dans l'emballage
Ensemble pour l'installation encastrée

SK

Montáž
Montáž na stenu
Svetelný zdroj
LED
Optický systém
Difúzor
Elektrická výbava
Ni-Cd batéria (Ochrana batérie pred preťažením a vybitím)
LED indikátor nabíjania
Material
Teleso: polykarbonát + ABS
Difúzor: PMMA
Príslušenstvo
Núdzové etikety sú štandardne zahrnuté v baliku
Sada pre vsadenú inštaláciu

ES

Montaje
Montaje en pared
Fuente luminica
LED
Sistema óptico
Difusor
Cableado
Batería Ni-Cd (Protección de la batería contra sobrecarga y descarga)
Indicador LED de carga
Material
Cuerpo: polycarbonato + ABS
Difusor: PMMA
Accesorios
Rótulos de emergencia están incluidos de forma estándar en el embalaje
Conjunto para la instalación empotrada

IT

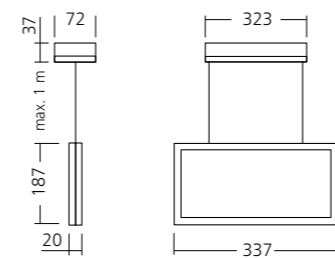
Installazione
A parete
Sorgente luminosa
LED
Sistema ottico
Diffusore
Cablaggio
Batteria Ni-Cd (Protezione della batteria contro sovraccarico e scaricamento)
Indicatore LED di carica
Materiali
Corpo: polycarbonato + ABS
Diffusore: PMMA
Accessori
Etichette per apparecchi d'emergenza sono già compresi nella confezione
Set per l'installazione ad incasso

RU

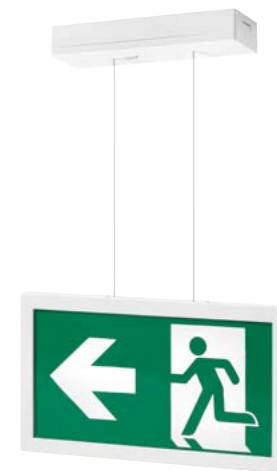
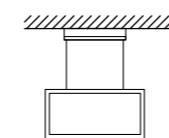
Установка
Настенная
Источник света
LED
Оптическая система
Рассеиватель
Электрическое оснащение
Ni-Cd батарея (Защита батарейки от перегрузки и разрядки)
LED индикатор зарядки
Материал
Корпус: поликарбонат + ABS
Рассеиватель: PMMA
Аксессуары
Наклейки аварийных выходов включены в стандартный комплект
Набор для скрытой установки



Emergency 2990



MOUNTING



TYPE	NR. OF LED'S	POWER CONSUMPTION (W)	BATTERY Ni-Cd* / LiFePO ₄ (V/Ah)	DURATION (h)	LIGHT OUTPUT (lm)	MAINTENANCE		EEC	WEIGHT (kg)
						D/M	UD/NM		
EMERGENCY 2991	15	1	3.6 / 1.5*	3	35 / 40	•	•	A++ / A+ / A	1.2
EMERGENCY 2992	15	2	3.6 / 1.5*	3	38 / 43	•	•	A++ / A+ / A	1.2
EMERGENCY 2993 AT	15	1	6.4 / 1.5	3	35 / 40	•	•	A++ / A+ / A	1.2
EMERGENCY 2994 AT	15	2	6.4 / 1.5	3	38 / 43	•	•	A++ / A+ / A	1.2

D/M-Maintained
UD/NM-Nonmaintained
AT - Autotest

LABELS



EN

Mounting
Suspended

Light source
LED

Optical system
Diffuser

Wiring

NiCd / LiFePO₄ battery (protection of battery against overload and discharge)
LED charging indicator

Materials

Housing: polycarbonate
Diffuser: Plexiglass

Accessories

Emergency labels are standardly included in the package

DE

Montage

Hängend

Lichtquelle
LED

Optisches System
Diffusor

Vorschaltgerät

NiCd / LiFePO₄ Akku (Akkuschutz vor der Überlastung und Entladung)
LED Indikator der Aufladung

Material

Körper: Polycarbonat
Diffusor: Plexiglas

Zubehör

Notlicht-Labels sind standardmäßig in Verpackung inbegriffen

FR

Montage

Plafonnier Suspensu

Source lumineuse
LED

Système optique
Diffuseur

Équipement électrique

Batterie NiCd / LiFePO₄ (Protection de la batterie contre la surcharge et le déchargement)
LED indicateur de rechargement

Matériels

Corps: polycarbonate
Diffusor: plexiglas

Accessoires

Étiquettes de secours sont inclus dans l'emballage

SK

Montáž

Závesné

Svetelný zdroj
LED

Optický systém
Difúzor

Elektrická výbava

NiCd / LiFePO₄ batéria (Ochrana batérie pred preťažením a vybitím)
LED indikátor nabíjania

Material

Teleso: polykarbonát
Difúzor: plexisklo

Príslušenstvo

Núdzové etikety sú štandardne zahrnuté v baliku

ES

Montaje

Suspendidas

Fuente luminica
LED

Sistema óptico
Difusor

Cableado

Batería NiCd / LiFePO₄ (Protección de la batería contra sobrecarga y descarga)
Indicador LED de carga

Material

Cuerpo: polycarbonato
Difusor: plexiglas

Accesorios

Rótulos de emergencia están incluidos de forma estándar en el embalaje

IT

Installazione

A sospensione

Sorgente luminosa
LED

Sistema ottico
Diffusore

Cablaggio

Batteria NiCd / LiFePO₄ (Protezione della batteria contro sovraccarico e scaricamento)
Indicatore LED di carica

Materiali

Corpo: polycarbonato
Diffusore: plexiglass

Accessori

Etichette per apparecchi d'emergenza sono già compresi nella confezione

RU

Установка

Подвесная

Источник света
LED

Оптическая система
Рассеиватель

Электрическое оснащение

NiCd / LiFePO₄ батарея (Защита батареи от перегрузки и разрядки)
LED индикатор зарядки

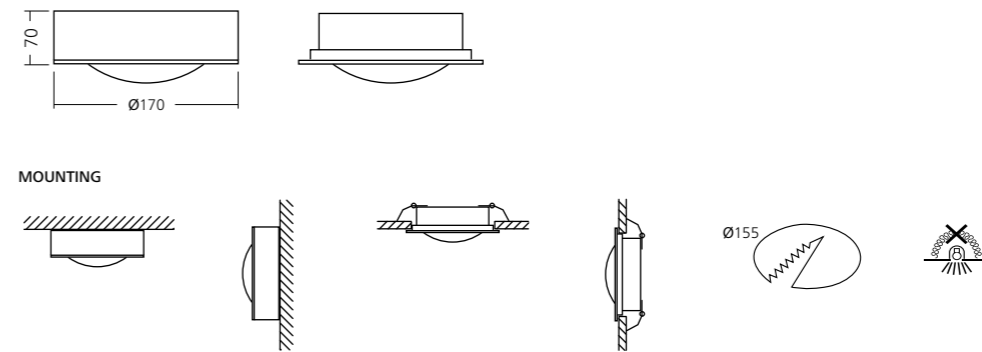
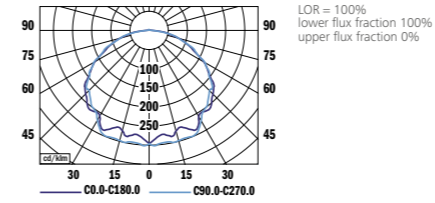
Материал

Корпус: поликарбона
Рассеиватель: Плексиглас

Аксессуары

Наклейки аварийных выходов включены в стандартный комплект

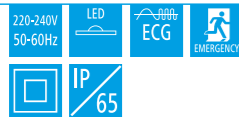
EMERGENCY 3100
LED



TYPE	NR. OF LED'S	POWER CONSUMPTION (W)	BATTERY Ni-Cd (V/Ah)	DURATION (h)	LIGHT OUTPUT (lm)	MAINTENANCE		EEC	WEIGHT (kg)
						D/M	UD/NM		
EMERGENCY 3101	1	2	6.4 / 1.5	1	115 / 245	•	•	A++ / A+ / A	0.5
EMERGENCY 3102	1	2	6.4 / 3.0	3	115 / 245	•	•	A++ / A+ / A	0.5
EMERGENCY 3103	2	5	6.4 / 1.5	1	223 / 475	•	•	A++ / A+ / A	0.5
EMERGENCY 3104	2	5	6.4 / 3.0	3	223 / 475	•	•	A++ / A+ / A	0.5
EMERGENCY 3105 AT	1	2	6.4 / 1.5	1	115 / 245	•	•	A++ / A+ / A	0.5
EMERGENCY 3106 AT	1	2	6.4 / 3.0	3	115 / 245	•	•	A++ / A+ / A	0.5
EMERGENCY 3107 AT	2	5	6.4 / 1.5	1	223 / 475	•	•	A++ / A+ / A	0.5
EMERGENCY 3108 AT	2	5	6.4 / 3.0	3	223 / 475	•	•	A++ / A+ / A	0.5

D/M-Maintained
UD/NM-Nonmaintained
AT-Autotest

Emergency 3100



EN

Mounting

Surfaced
Recessed

Light source

LED

Optical system

Diffuser

Wiring

Ni-Cd battery (protection of battery against overload and discharge)
LED charging indicator

Materials

Housing: polycarbonate + ABS
Diffuser: polycarbonate

Accessories

Set for recessed installation

Ambient temperature

From +10 °C to +40 °C

DE

Montage

Deckenleuchte
Einbauleuchte

Lichtquelle

LED

Optisches System

Diffuser

Vorschaltgerät

Ni-Cd Akku (Akkuschutz vor der Überlastung und Entladung)
LED Indikator der Aufladung

Material

Körper: Polycarbonat + ABS
Diffusor: Polycarbonat

Zubehör

Set für die Einbaumontage

Umgebungstemperatur

Von +10 °C bis +40 °C

FR

Montage

Apparent
Encastrable

Source lumineuse

LED

Système optique

Diffuseur

Équipement électrique

Batterie Ni-Cd (Protection de la batterie contre la surcharge et le déchargement)
LED indicateur de rechargement

Matériels

Corps: polycarbonate + ABS
Diffuseur: polycarbonate

Accessoires

Ensemble pour l'installation encastrée

Température ambiante

De +10 °C à +40 °C

SK

Montáž

Prisadená
Vsadená

Svetelný zdroj

LED

Optický systém

Difúzor

Elektrická výbava

Ni-Cd batéria (Ochrana batérie pred preťažením a vybitím)
LED indikátor nabíjania

Material

Teleso: polykarbonát + ABS
Difúzor: polykarbonát

Príslušenstvo

Sada pre vsadenú inštaláciu

Teplota okolia

Od +10 °C do +40 °C

ES

Montaje

Sobrepuestas
Empotradas

Fuente luminica

LED

Sistema óptico

Difusor

Cableado

Batería Ni-Cd (Protección de la batería contra sobrecarga y descarga)
Indicador LED de carga

Material

Cuerpo: polycarbonato + ABS
Difusor: polycarbonato

Accesorios

Conjunto para la instalación empotrada

Temperatura ambiente

Desde +10 °C a +40 °C

IT

Installazione

A Plafone
Ad incasso

Sorgente luminosa

LED

Sistema ottico

Diffusore

Cablaggio

Batteria Ni-Cd (Protezione della batteria contro sovraccarico e scaricamento)
Indicatore LED di carica

Materiali

Corpo: polycarbonato + ABS
Diffusore: polycarbonato

Accessori

Set per l'installazione ad incasso

Temperatura d'ambiente

Da +10 °C a +40 °C

RU

Установка

Потолочная накладная
Потолочная встроенная

Источник света

LED

Оптическая система

Рассеиватель

Электрическое оснащение

Ni-Cd батарейка (Защита батарейки от перегрузки и разрядки)
LED индикатор зарядки

Материал

Корпус: поликарбонат + ABS
Рассеиватель: поликарбонат

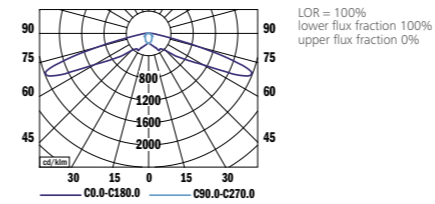
Аксессуары

Набор для скрытой установки

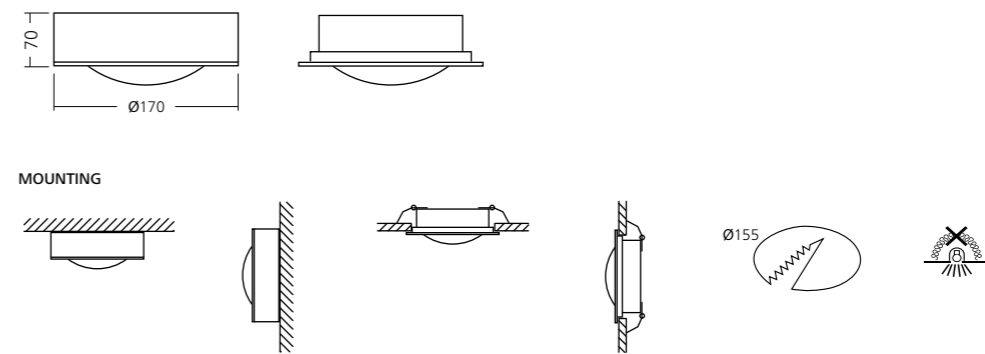
Температура окружающей среды

От +10 °C до +40 °C

EMERGENCY 3110
LED



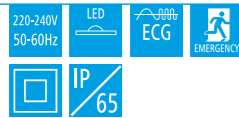
LED LUMINAIRES



TYPE	NR. OF LED'S	POWER CONSUMPTION (W)	BATTERY Ni-Cd (V/Ah)	DURATION (h)	LIGHT OUTPUT (lm)	MAINTENANCE		EEC	WEIGHT (kg)
						D/M	UD/NM		
EMERGENCY 3111	1	2	6.4 / 1.5	1	104 / 222	•	•	A++ / A+ / A	0.5
EMERGENCY 3112	1	2	6.4 / 3.0	3	104 / 222	•	•	A++ / A+ / A	0.5
EMERGENCY 3113	2	5	6.4 / 1.5	1	196 / 418	•	•	A++ / A+ / A	0.5
EMERGENCY 3114	2	5	6.4 / 3.0	3	196 / 418	•	•	A++ / A+ / A	0.5
EMERGENCY 3115 AT	1	2	6.4 / 1.5	1	104 / 222	•	•	A++ / A+ / A	0.5
EMERGENCY 3116 AT	1	2	6.4 / 3.0	3	104 / 222	•	•	A++ / A+ / A	0.5
EMERGENCY 3117 AT	2	5	6.4 / 1.5	1	196 / 418	•	•	A++ / A+ / A	0.5
EMERGENCY 3118 AT	2	5	6.4 / 3.0	3	196 / 418	•	•	A++ / A+ / A	0.5

D/M-Maintained
UD/NM-Nonmaintained
AT-Autotest

Emergency 3110



EN

Mounting
Surfaced
Recessed
Light source
LED
Optical system
Diffuser
Wiring
Ni-Cd battery (protection of battery against overload and discharge)
LED charging indicator
Materials
Housing: polycarbonate + ABS
Diffuser: polycarbonate
Accessories
Set for recessed installation
Ambient temperature
From +10 °C to +40 °C

DE

Montage
Deckenleuchte
Einbauleuchte
Lichtquelle
LED
Optisches System
Diffusor
Vorschaltgerät
Ni-Cd Akku (Akkuschutz vor der Überlastung und Entladung)
LED Indikator der Aufladung
Material
Körper: Polycarbonat + ABS
Diffusor: Polycarbonat
Zubehör
Set für die Einbaumontage
Umgebungstemperatur
Von +10 °C bis +40 °C

FR

Montage
Apparent
Encastrable
Source lumineuse
LED
Système optique
Diffuseur
Équipement électrique
Batterie Ni-Cd (Protection de la batterie contre la surcharge et le déchargement)
LED indicateur de rechargement
Matériels
Corps: polycarbonate + ABS
Diffuseur: polycarbonate
Accessoires
Ensemble pour l'installation encastrée
Température ambiante
De +10 °C à +40 °C

SK

Montáž
Prisadená
Vsadená
Svetelný zdroj
LED
Optický systém
Difúzor
Elektrická výbava
Ni-Cd batéria (Ochrana batérie pred preťažením a vybitím)
LED indikátor nabíjania
Material
Teleso: polykarbonát + ABS
Difúzor: polykarbonát
Príslušenstvo
Sada pre vsadenú inštaláciu
Teplota okolia
Od +10 °C do +40 °C

ES

Montaje
Sobrepuestas
Empotradas
Fuente luminica
LED
Sistema óptico
Difusor
Cableado
Batería Ni-Cd (Protección de la batería contra sobrecarga y descarga)
Indicador LED de carga
Material
Cuerpo: polycarbonato + ABS
Difusor: polycarbonato
Accesorios
Conjunto para la instalación empotrada
Temperatura ambiente
Desde +10 °C a +40 °C

IT

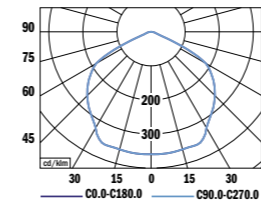
Installazione
A Plafone
Ad incasso
Sorgente luminosa
LED
Sistema ottico
Diffusore
Cablaggio
Batteria Ni-Cd (Protezione della batteria contro sovraccarico e scaricamento)
Indicatore LED di carica
Materiali
Corpo: polycarbonato + ABS
Diffusore: polycarbonato
Accessori
Set per l'installazione ad incasso
Temperatura d'ambiente
Da +10 °C a +40 °C

RU

Установка
Потолочная накладная
Потолочная встроенная
Источник света
LED
Оптическая система
Рассеиватель
Электрическое оснащение
Ni-Cd батарея (Защита батареи от перегрузки и разрядки)
LED индикатор зарядки
Материал
Корпус: поликарбонат + ABS
Рассеиватель: поликарбонат
Аксессуары
Набор для скрытой установки
Температура окружающей среды
От +10 °C до +40 °C

NEW

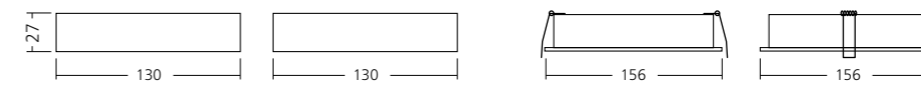
EMERGENCY 3200 LED



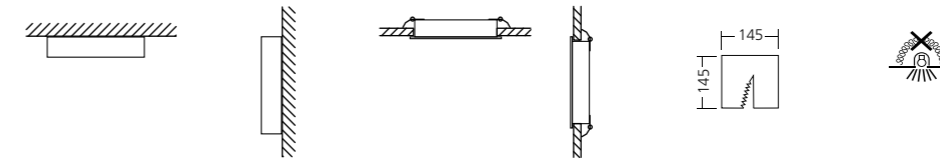
LOR = 100%
lower flux fraction 100%
upper flux fraction 0%



LED LUMINAIRES



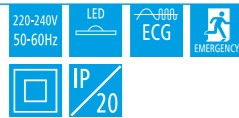
MOUNTING



TYPE	NR. OF LED'S	POWER CONSUMPTION (W)	BATTERY LiFePO ₄ (V/Ah)	DURATION (h)	LIGHT OUTPUT (lm)	MAINTENANCE		EEC	WEIGHT (kg)
						D/M	UD/NM		
EMERGENCY 3201	1	2,5	6.4 / 1.0	1	242	•	-	A++ / A+ / A	0.3
EMERGENCY 3202	1	2,5	6.4 / 1.5	3	242	•	-	A++ / A+ / A	0.3
EMERGENCY 3203	2	5	6.4 / 1.5	3	466	•	-	A++ / A+ / A	0.3
EMERGENCY 3204 AT	1	2,5	6.4 / 1.0	1	242	•	-	A++ / A+ / A	0.3
EMERGENCY 3205 AT	1	2,5	6.4 / 1.5	3	242	•	-	A++ / A+ / A	0.3
EMERGENCY 3206 AT	2	5	6.4 / 1.5	3	466	•	-	A++ / A+ / A	0.3

D/M-Maintained
UD/NM-Nonmaintained
AT-Autotest

Emergency 3200



EN

MountingSurfaced
Recessed**Light source**

LED

Optical system

Lens

WiringLiFePO₄ battery (protection of battery against overload and discharge)
LED charging indicator**Materials**

Housing: polycarbonate

Accessories

Set for recessed installation

Ambient temperature

From +10 °C to +35 °C

DE

MontageDeckenleuchte
Einbauleuchte**Lichtquelle**

LED

Optisches System

Linse

VorschaltgerätLiFePO₄ Akku (Akkuschutz vor der Überlastung und Entladung)
LED Indikator der Aufladung**Material**

Körper: Polycarbonat

Zubehör

Set für die Einbaumontage

Umgebungstemperatur

Von +10 °C bis +35 °C

FR

MontageApparent
Encastrable**Source lumineuse**

LED

Système optique

Lentille

Équipement électriqueBatterie LiFePO₄ (Protection de la batterie contre la surcharge et le déchargement)
LED indicateur de rechargement**Matériels**

Corps: polycarbonate

Accessoires

Ensemble pour l'installation encastrée

Température ambiante

De +10 °C à +35 °C

SK

MontážPrisadená
Vsadená**Svetelný zdroj**

LED

Optický systém

Šošovka

Elektrická výbavaLiFePO₄ batéria (Ochrana batérie pred preťažením a vybitím)
LED indikátor nabíjania**Material**

Teleso: polykarbonát

Príslušenstvo

Sada pre vsadenú inštaláciu

Teplota okolia

Od +10 °C do +35 °C

ES

MontajeSobrepuestas
Empotradas**Fuente luminica**

LED

Sistema óptico

Lente

CableadoBatería LiFePO₄ (Protección de la batería contra sobrecarga y descarga)
Indicador LED de carga**Material**

Cuerpo: polycarbonato

Accesorios

Conjunto para la instalación empotrada

Temperatura ambiente

Desde +10 °C a +35 °C

IT

InstallazioneA Plafone
Ad incasso**Sorgente luminosa**

LED

Sistema ottico

Lente

CablaggioBatteria LiFePO₄ (Protezione della batteria contro sovraccarico e scaricamento)
Indicatore LED di carica**Materiali**

Corpo: polycarbonato

Accessori

Set per l'installazione ad incasso

Temperatura d'ambiente

Da +10 °C a +35 °C

RU

УстановкаПотолочная накладная
Потолочная встроенная**Источник света**

LED

Оптическая система

Линза

Электрическое оснащениеLiFePO₄ батарея (Защита батареи от перегрузки и разрядки)
LED индикатор зарядки**Материал**

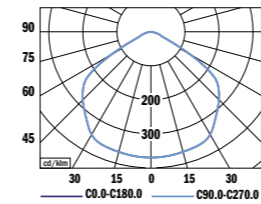
Корпус: поликарбонат

Аксессуары

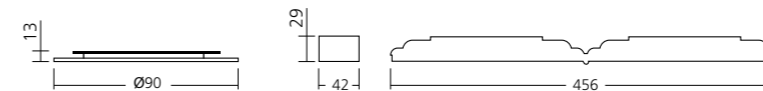
Набор для скрытой установки

Температура окружающей среды

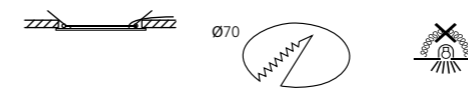
От +10 °C до +35 °C



LOR = 100%
lower flux fraction 100%
upper flux fraction 0%



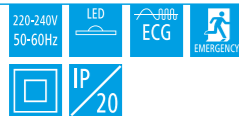
MOUNTING



TYPE	NR. OF LED'S	POWER CONSUMPTION (W)	BATTERY Ni-Cd* / LiFePO ₄ (V/Ah)	DURATION (h)	LIGHT OUTPUT (lm)	MAINTENANCE		EEC	WEIGHT (kg)
						D/M	UD/NM		
EMERGENCY 3221	1	2,5	3.6 / 0.8*	1	242	-	•	A++ / A+ / A	0.5
EMERGENCY 3222	1	2,5	3.6 / 1.5*	3	242	-	•	A++ / A+ / A	0.5
EMERGENCY 3223	1	4,5	6.4 / 3.0	3	330	•	-	A++ / A+ / A	0.5
EMERGENCY 3224 AT	1	2,5	6.4 / 0.6	1	242	•	-	A++ / A+ / A	0.5
EMERGENCY 3225 AT	1	2,5	6.4 / 1.5	3	242	•	-	A++ / A+ / A	0.5
EMERGENCY 3226 AT	1	4,5	6.4 / 3.0	3	330	•	-	A++ / A+ / A	0.5

D/M-Maintained
UD/NM-Nonmaintained
AT-Autotest

Emergency 3220



EN

Mounting

Recessed

Light source

LED

Optical system

Lens

WiringNiCd (3221-2) / LiFePO₄ (3223-6) battery (protection of battery against overload and discharge)

LED charging indicator

Materials

Housing: polycarbonate

Ambient temperature

From +10 °C to +35 °C

DE

Montage

Einbauleuchte

Lichtquelle

LED

Optisches System

Linse

VorschaltgerätNiCd (3221-2) / LiFePO₄ (3223-6) Akku (Akkschutz vor der Überlastung und Entladung)

LED Indikator der Aufladung

Material

Körper: Polycarbonat

Umgebungstemperatur

Von +10 °C bis +35 °C

FR

Montage

Encastrable

Source lumineuse

LED

Système optique

Lentille

Équipement électriqueBatterie NiCd (3221-2) / LiFePO₄ (3223-6) (Protection de la batterie contre la surcharge et le déchargement)

LED indicateur de rechargement

Matériels

Corps: polycarbonate

Température ambiante

De +10 °C à +35 °C

SK

Montáž

Vsadená

Svetelný zdroj

LED

Optický systém

Šošovka

Elektrická výbavaNiCd (3221-2) / LiFePO₄ (3223-6) batéria (Ochrana batérie pred preťažením a vybitím)

LED indikátor nabíjania

Material

Teleso: polykarbonát

Teplota okolia

Od +10 °C do +35 °C

ES

Montaje

Empotradas

Fuente luminica

LED

Sistema óptico

Lente

CableadoBatería NiCd (3221-2) / LiFePO₄ (3223-6) (Protección de la batería contra sobrecarga y descarga)

Indicador LED de carga

Material

Cuerpo: polycarbonato

Temperatura ambiente

Desde +10 °C a +35 °C

IT

Installazione

Ad incasso

Sorgente luminosa

LED

Sistema ottico

Lente

CablaggioBatteria NiCd (3221-2) / LiFePO₄ (3223-6) (Protezione della batteria contro sovraccarico e scaricamento)

Indicatore LED di carica

Materiali

Corpo: polycarbonato

Temperatura d'ambiente

Da +10 °C a +35 °C

RU

Установка

Потолочная встроенная

Источник света

LED

Оптическая система

Линза

Электрическое оснащениеNiCd (3221-2) / LiFePO₄ (3223-6) батарейка (Защита батарейки от перегрузки и разрядки)

LED индикатор зарядки

Материал

Корпус: поликарбонат

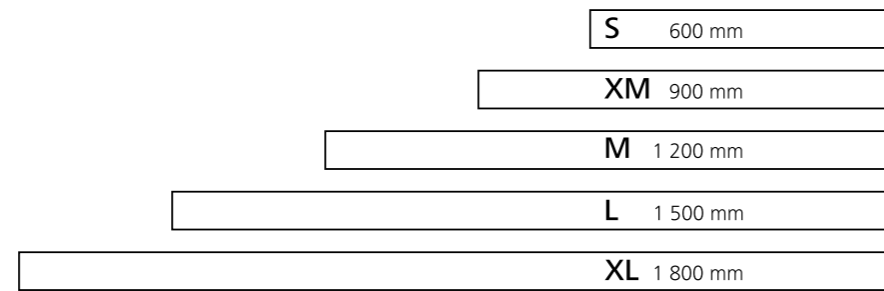
Температура окружающей среды

От +10 °C до +35 °C



PRODUCT CODING

A. BY LENGHT

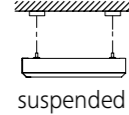


B. BY MOUNTING TYPE

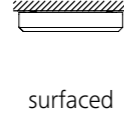
S/S

surfaced or
suspended

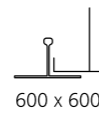
SD



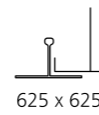
SF



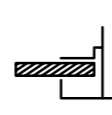
PV



PR

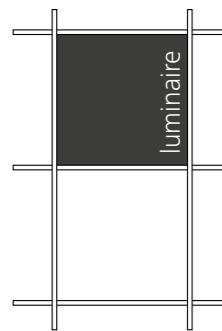


PB

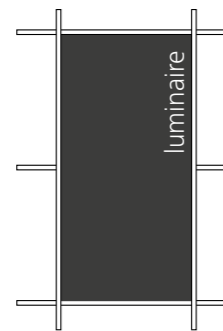


C. BY SHAPE

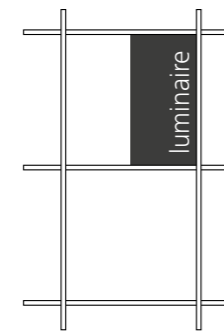
SS / PV
SF / PR - 1
SD / PB



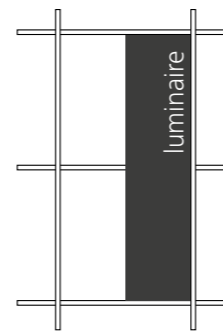
SS / PV
SF / PR - 2
SD / PB



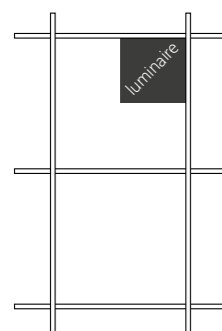
SS / PV
SF / PR - 3
SD / PB



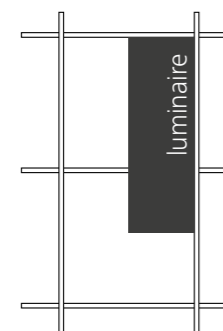
SS / PV
SF / PR - 4
SD / PB



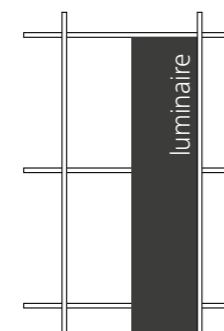
SS / PV
SF / PR - 5
SD / PB



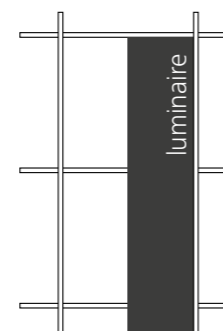
SS / PV
SF / PR - 6
SD / PB



SS / PV
SF / PR - 7
SD / PB



SS / PV
SF / PR - 8
SD / PB



DIMENSIONS ARE APPROXIMATE

INSTALLATION TYPES AND DIMENSIONS OVERVIEW

MARK	RCS	PB	PV, PR	RCD	RCB
description	RECESSED as part of product name	determined for plasterboard ceiling	determined for T-ceiling	determined for special type of T-ceiling	determined for plasterboard ceiling
holders	yes	yes	no	no / yes	yes
dimensions	-	within tolerance	within tolerance	out of tolerance	out of tolerance
installation type	RCB	RCB	RCD	RCD	RCB
ceiling type	plasterboard	plasterboard	certain type	defined or undefined type	plasterboard

PB	plasterboard	tolerance comparing to basic dimensions +/- 2 mm (luminaire frame)				
mark	standard (mm)	X min.	X max.	Y min.	Y max.	dimension range
PB1	622 x 622	620	624	620	624	(620-624) x (620-624)
PB2	1222 x 622	1220	1224	620	624	(1220-1224) x (620-624)
PB3	622 x 322	620	624	320	324	(620-624) x (320-324)
PB4	1222 x 322	1220	1224	320	324	(1220-1224) x (320-324)
PB5	322 x 322	320	324	320	324	(320-324) x (320-324)
PB6	922 x 322	920	924	320	324	(920-924) x (320-324)
PB7	1522 x 322	1520	1524	320	324	(1520-1524) x (320-324)
PB8	1822 x 322	1820	1824	320	324	(1820-1824) x (320-324)

PV	600	tolerance comparing to basic dimensions from -2 to -5 mm (T-ceiling frame)				
mark	standard (mm)	X min.	X max.	Y min.	Y max.	dimension range
PV1	595 x 595	595	598	595	598	(595-598) x (595-598)
PV2	1195 x 595	1195	1198	595	598	(1195-1198) x (595-598)
PV3	595 x 295	595	598	295	298	(595-598) x (295-298)
PV4	1195 x 295	1195	1198	295	298	(1195-1198) x (295-298)
PV5	295 x 295	295	298	295	298	(295-298) x (295-298)
PV6	895 x 295	895	898	295	298	(895-898) x (295-298)
PV7	1495 x 295	1495	1498	295	298	(1495-1498) x (295-298)
PV8	1795 x 295	1795	1798	295	298	(1795-1798) x (295-298)

PR	625	tolerance comparing to basic dimensions from -2 to -5 mm (T-ceiling frame)				
mark	standard (mm)	X min.	X max.	Y min.	Y max.	dimension range
PR1	622 x 622	620	623	620	623	(620-623) x (620-623)
PR2	1245 x 622	1245	1248	620	623	(1245-1248) x (620-623)
PR3	622 x 310	620	623	307,5	310,5	(620-623) x (307,5-310,5)
PR4	1245 x 310	1245	1248	307,5	310,5	(1245-1248) x (307,5-310,5)
PR5	310 x 310	307,5	310,5	307,5	310,5	(307,5-310,5) x (307,5-310,5)
PR6	933 x 310	932,5	935,5	307,5	310,5	(932,5-935,5) x (307,5-310,5)
PR7	1558 x 310	1557,5	1560,5	307,5	310,5	(1557,5-1560,5) x (307,5-310,5)
PR8	1870 x 310	1870	1873	307,5	310,5	(1870-1873) x (307,5-310,5)

APPLICATIONS

- RETAIL AND PRESENTATION
- INDUSTRY AND ENGINEERING
- OFFICE
- EDUCATION
- HEALTH AND CARE
- ARCHITECTURE AND MEDIA
- STREET AND URBAN
- HOME AND INTERIOR
- HOSPITALITY
- SPORT AND LEISURE

SPECIFICATION

- MAINS VOLTAGE AND FREQUENCY
- COLOUR RENDERING INDEX
- CORRELATED COLOUR TEMPERATURE
- LIGHT SOURCE LED
- ELECTRONIC CONTROL GEAR FIX
- ELECTRONIC CONTROL GEAR DALI
- ELECTRONIC CONTROL GEAR STEP DIM
- ELECTRONIC CONTROL GEAR INT DIM (PROGRAMMABLE)
- EMERGENCY UNIT
- IEC PROTECTION CLASS I
- IEC PROTECTION CLASS II
- IP PROTECTION DEGREE COMPLETE LUMINAIRE
- IP PROTECTION DEGREE OPTICAL PART
- IMPACT RESISTANCE DEGREE
- THE LUMINAIRE IS NOT SUITABLE FOR USE IN OUTDOOR APPLICATIONS

THE MANUFACTURER CONTINUES TO DEVELOP PRODUCTS THROUGHOUT THEIR LIFETIME. THEREFORE, THE COMPANY RESERVES THE RIGHT TO MODIFY MATERIALS, COMPONENTS, AND TECHNICAL PARAMETERS WITHOUT NOTICE. LUMINOUS OUTPUT AND ELECTRICAL LOAD HAVE AN INITIAL TOLERANCE OF +/- 10 % FROM NOMINAL. FAILURE OF ONE LED LIGHT POINT WITHIN A LUMINAIRE DOES NOT IMPAIR FUNCTIONAL PERFORMANCE AND SO IS NOT CLASSIFIED AS REASON FOR COMPLAINT.



PRODUCTS
E-CATALOGUE
3/2018

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