s-lampsy

lighting professionals

Snergia LED Division

2023 - EN

E- Lampsy - Lighting professionals
The LED Division of Energia Europa

e-Lampsy is the LED division of **Energia Europa S.p.A**, with plants and offices in Zane (VI) and Borgo Ticino (NO).

Thanks to the experience and skills of our highly qualified staff, **we design and manufacture LED lamps** intended for industry, tertiary sector and public lightning.

Our products are designed to meet the lighting needs of enterprises and public authorities, by offering **custom solutions** based on the assessment of an objective saving while still returning the same Lighting efficiency.

We firmly believe in efficiency policies which, further than lowering consumption, grant an increase in the quality of workplaces in full compliance with the current legislation.

e-lampsy lighting professionals
Energia LED Division

Energy Efficiency

The energy efficiency guaranteed by LEDs depends on several peculiarities of their own technology:

- The light beam can be directed precisely: in this way, light pollution is also reduced;
- The LEDs have very long average life cycle, up to more than 100,000 hours, reducing replacement costs;
- Maintenance is reduced to a minimum, with great benefits for ambients with problematic access;
- LEDs disperse only a small amount of energy in the form of heat therefore they can be positioned very close to other elements.

How to evaluate real leds efficiency

To best evaluate the goodness of our LED solutions, in the catalog we indicate all the useful data, including the two most important measures:

- The useful output flux. It indicates the light actually usable net of losses, shielding elements, decay due to temperature;
- System efficiency, which expresses the lumens produced for each Watt consumed, net of losses.

Control and automation: Best performance and maximum savings

LEDs are better suited than other technologies to take full advantage of intelligent control systems.
Our products can be customized with different automation options:
• Programmable power supplies: a programmable driver sets the right driving current to get the required luminance or illuminance level, optimizing consumption, according to preset time schedule;
• Custom dimming: we set up to 5 daily dimming levels for different time schedule;
• CLO function - constant lumen output: maintains the lumen output of the luminaires during usage;
• Virtual midnight: it is a stand-alone system with automatic lumen reduction, set directly in the factory according customer needs. Thanks to self-learning, the microprocessor optimizes operation in just 3 days.

The remote control systems allow optimal management of the appliances:
• DALI protocol: it is possible with a correct setting of the daylight and presence sensors achieve savings of up to 70%. The remote control features a dedicated bipolar DALI input;
• 1-10V control: allows you to adjust the device to 10% -100% of the power with voltages 1-10V;
• Radio frequency control (wireless): Allows the control and monitoring of the devices avoiding further wiring. It is applicable to any existing system;
• DMX control: ideal for large-scale lighting scenes where control systems with particular capabilities are required. It is increasingly in demand for large sports facilities.

Characterization

Photobiological safety: A number of Photobiological Safety Risk Groups (IEC62471) have been defined for the amount of radiation emitted from all sources in the range of wavelengths from 200 nm to 3000 nm, providing a clear indication of the limits of maximum exposure for each group. e-Lampsy is committed to providing the most technologically advanced luminaires and always chooses the LED sources with the lowest photobiological risk group available on the market for its customers.

Overvoltage: Overvoltage in outdoor applications is the primary cause for failure. e-Lampsy use SPD devices 10kV to 20kV, according final destinations of our products.

Average luminous flux:
The luminous flux is intended at operating temperature.The lighting loss is very low. The IESNA institute has developed two standards used to evaluate the lifespan of LED light sources. LM-80 is a standard for defining the useful life and decay of the single LED chip. TM-21 takes LM-80 data to evaluate the life span of a complete luminaire. For example, the L90B10 data indicates that 10% of the LEDs present have lost 10% of their luminous flux in the indicated time. It is warmly suggested to clean the glass screens at least every 4 years to avoid unwanted leaks.

All the data shown in this catalogue have following tollerances
• Lighting flux: ± 10%
• Power: ± 5%

Information note for street lighting

Safety for the users depends on compliance with requirements and parameters, which must be keep in consideration in the lighting design phase:
• An adequate average level of luminance allows the driver to quickly identify obstacles on the roadway. Values between 0.5 and 2 cd/sqm are typical.
• A good uniformity of luminance allows the driver to detect contrasts with objects at any point on the roadway. There are mainly four values that must be taken into consideration:
L = average luminance;
Uo = ratio between minimum luminance and average luminance of the whole carriageway (Uo = Lmin / Lmedia);
Ul = longitudinal uniformity of luminance, which is given by the ratio between the minimum luminance and maximum luminance along the center line of each of the traffic lanes;
Rei = illumination of contiguity.

• Limitation of discomfort glare. To evaluate the glare of a system, the standards prescribe the determination of the debilitating glare Thresold Increment (TI).

Only a correct lighting design can identify the best solution.

High value lighting design

Implementing a lighting project means seeking for the best conditions of comfort, efficiency and safety in a space where a visual activity takes place that requires an adequate supply of artificial light, in compliance with current regulations.

e-Lampsy is able to provide technical support and reports with lighting calculations and photorealistic images of the illuminated environment.
The R&D division of Energia Europa, jointly managed with the University of Florence, uses state-of-the-art tools in the electronics sector for both technical tests and design.

Our designers and planners continuously work on researching and experimenting with technologically advanced products, with an innovative design and unique features, including maximum visual comfort with solutions for reducing the glare of devices.

One of our innovative solutions concerns smart lighting: through intelligent devices used with the lamps it is possible to schedule automatic scenarios to have the necessary light at any time, independently adjusting the intensity of the light according i.e. the traffic situation and or environmental data.

SECTORS

STREET LIGHTING

URBAN LIGHTING

INDUSTRIAL LIGHTING

OFFICE LIGHTING

OUTDOOR AND SPORTS LIGHTING

STREET LIGHTING

URBAN LIGHTING

e-PATH

- EU regulation 2020/2019 Led Source Class D
- Lifetime (Tq=65°C, 1050mA)
  - >100,000hr L90B10
  - >100,000hr L90,TM21
- Future-Proof with integral LED module which can be separated from the lamp body
- Low exposure compact shape
- Multilayer shape optical system
- 60 - 70% energy saving if compared to gas-discharge lamps
- More than 60% of recyclable materials
- Possibility to remotely monitor and set up the device
- MADE IN ITALY

Light Source

LED 5050 or 3030

3.000 or 4.000 K

CRI 70

LED efficiency 3030: up to 213 lm/W, Tj=65°C, 4000K

Electric & Power Supply

230 VAC 50-60HZ (-15%/+10%)

Cosφ > 0,95

IEC Classe II Insulation

10kV Overvoltage protection

Lamp body

Powder coated die-cast aluminium

PMMA lenses and 4mm tempered glass shield

Weight:s: e-PATH 1 4 Kg - e-PATH 2 6 Kg

IP66

Wind exposure: side 0,05 m2 Plan 0,11 m2

Installation

Operating Temperature -30 °C ÷ +50 °C

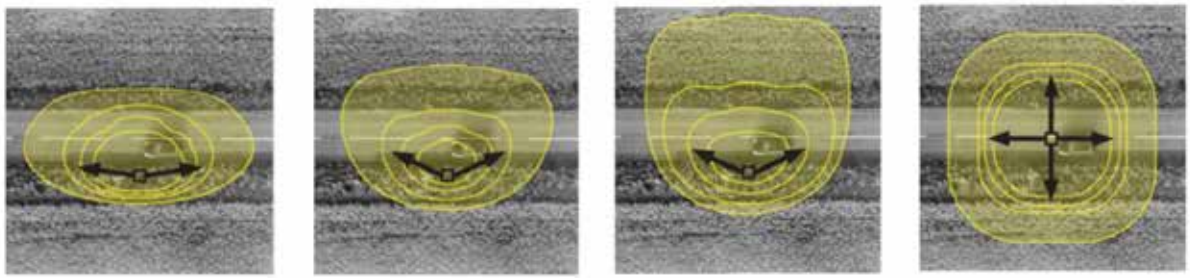
Recommended installation height from 4 to 10 m

Poles or Wall Installation

Adjustment ±15°

Mains connection: H05RN-F 2x1 sq.mm l=1mt

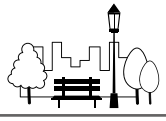
Photometrics



We suggest the best photometric based on the real lighting requirements of the road environment

	No. Modules	Drive Current	Rated Power	Luminous Flux
e-PATH 1	2 x Zhaga 15	125 mA	21 W	4.000 lm
e-PATH 1	2 x Zhaga 15	175 mA	31 W	5.350 lm
e-PATH 2	2 x Zhaga 15	175 mA	46 W	8.000 lm
e-PATH 2	3 x Zhaga 15	175 mA	69 W	12.000 lm

Recommended Applications

Urban Lighting	Pedestrian Areas	Cycle Tracks	Parkings	Parks
				

Standards

EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3

LINE BREAKER

FREE TOOLS OPENING

ADJASTABLE POLE MOUNT

POLE DIAMETER 60 OR 48 mm

FUTURE PROOF

Whole leds plate can be removed without tools

for any future tech update

ADJUSTMENT ± 15°

e-WAY

- EU regulation 2020/2019 Led Source Class D
- Lifetime (Tq=65°C, 1050mA)
  - >100,000hr L90B10
  - >100,000hr L90,TM21
- Opening without tools with electric line breaking
- Direct access to LED housing and power supply unit housing
- Low exposure - compact shape
- Multilayer shape optical system
- 60 - 70% energy saving if compared to gas-discharge lamps
- More than 60% of recyclable materials
- Possibility to remotely monitor and set up the device
- MADE IN ITALY

Light source

LED 5050 or 3030

3.000 or 4.000 K

CRI 70

LED efficiency 5050: 188 lm/W, Tj=65°C, 4000K

Electric & Power Supply

230 VAC 50-60HZ (-15%/+10%)

Cosφ > 0,95

IEC Class II insulation

10kV Overvoltage protection

Lamp body

Powder coated die-cast aluminium

PMMA lenses and 4mm tempered glass shield

Weight: 3,8-6 Kg

IP66 Protection

Maximum wind exposure: Side 0.029 m² Plan 0.22 m²

Installation

Operating temperature -30 °C ÷ +50 °C

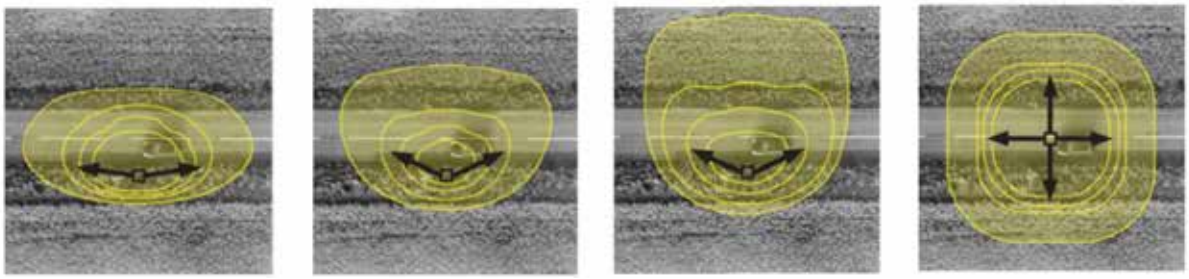
Recommended installation height from 4 to 12 m

Pole or Wall Installation

Adjustment ±15°

Mains connection: Free terminal H05RN-F 2x1m² l=1m cable

Photometrics

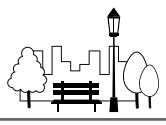


We suggest the best photometric based on the real lighting requirements of the road environment

Performance

	No. Modules	Rated Power	Luminous Flux
e-WAY 1 16 led	2 x (4x2led) Zhaga 15	49 W	6.700 lm
e-WAY 1 24 led	2 x (6x2led) Zhaga 15	74 W	10.000 lm
e-WAY 2 32 led	2 x (8x2led) Zhaga 15	99 W	13.500 lm
e-WAY 2 48 led	3 x (8x2led) Zhaga 15	125 W	17.600 lm

Recommended Applications

Urban Lighting	Main Street	Pedestrian Areas	Parkings	Parks
				

Standards

EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3

ADJUSTABLE POLE MOUNT

OPENING WITHOUT TOOLS

WINDPROOF SAFETY LOCK

REPLACEABLE LED MODULES

SPD 10 Kv (optional)

LINE BREAKER

ADJUSTMENT ± 15°

e-BASIC PLUS

retrofit KIT

- EU regulation 2020/2019 Led Source Class DC
- Overall efficiency 160lm/W
- LED source lifetime (Tq=65°C, 700mA)
  - >100,000hr L95B10
  - >100.000hr L90, TM21
- The module is for "Built-In" use only
- The kit comes with IP65 LED module and pre-wired driver
- Custom made laser cut support plate
- 60 - 70% energy saving if compared to gas-discharge lamps
- More than 60% of recyclable materials
- MADE IN ITALY

Light Source

22 LED 5050

3.000 o 4.000 K

CRI 80

LED SOURCE Efficiency 204 lm/W @ 700mA, Tj=60°C, 4000K

Electric & Power Supply

230 VAC 50-60HZ (-15%/+10%)

Cosφ > 0,95

IEC Insulation Class I or II

Overvoltage protection up to 10kV

Lamp Body

Aluminium with power coating finish

IK08 yellowing-proof PC lenses for glass free use

Weight: 1.0 Kg excluding the plate to be sized

IP65 Protection

Installation

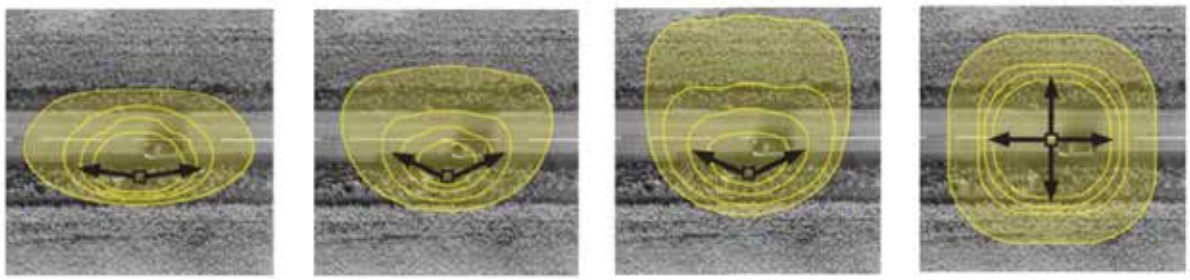
Operating temperature -30 °C -e- +50 °C

Recommended installation height from 4 to 8 m

Custom sized plate needed for usage

Mains connection: Free terminal H05RN-F 2xlm² l=1m cable

Photometrics

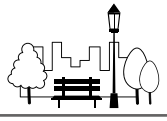


We suggest the best photometric based on the real lighting requirements of the road environment

Performance @ 4000 K

	Drive Current	Rated Power	Luminous Flux
22 led	500 mA	22 W	4.200 lm
22 led	700 mA	32 W	5.500 lm
22 led	1.050 mA	48 W	8.000 lm

Recommended Applications

Urban Lighting	Pedestrian Areas	Cycle Tracks	Parkings	Parks
				

Standards

EN 62031, EN 62778, EN 62717, EN 61347-1, EN 61374-2-13, EN 62384, EN 61547

e-AVE EVO

- EU regulation 2020/2019 Led Source Class C
- LED source lifetime (Tq=65°C, 1050mA)
  - >100,000hr L90B10
  - >100,000hr L90,TM21
- Power supply housing separated from LED modules
- Modern and captivating design
- Multilayer shape optical system
- 60 - 70% energy saving if compared to gas-discharge lamps
- More than 60% of recyclable materials
- Possibility to remotely monitor and set up the device
- MADE IN ITALY

LED Source

LED 2835

3.000 or 4.000 K

CRI 80

LED SOURCE Efficiency 204 lm/W @ 700mA, Tj=60°C, 4000K

Electric & Power Supply

230 VAC 50-60HZ (-15%/+10%)

Cosφ > 0,95

IEC Insulation Class II

10kV Overvoltage protection

Lamp Body

Powder coated die-cast aluminium

PMMA lenses and 4mm tempered glass shield

Weight: 4.5 Kg

IP66 Protection

Maximum wind exposure: Side 0.05 m² Plan 0.15 m²

Installation

Operating temperature -30 °C ÷ +50 °C

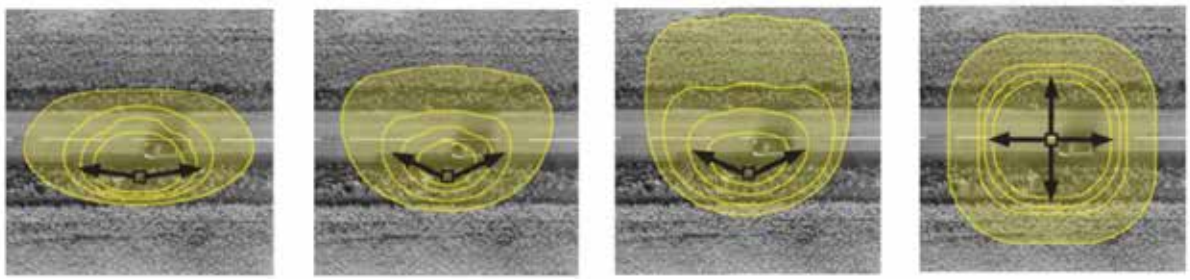
Recommended installation height from 4 to 8 m

Pole head Installation

60-76 mm pole end installation

Mains connection: Free terminal H05RN-F 2x1 m² l=1m cable

Photometrics

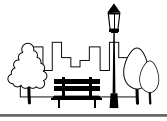


We suggest the best photometric based on the real lighting requirements of the road environment

Performance

CCT	Drive Current	Rated Power	Luminous Flux
3000 K	500 mA	40 W	6.500 lm
3000 K	700 mA	54 W	8.700 lm
4000 K	500 mA	40 W	7.000 lm
4000 K	700 mA	54 W	9.300 lm

Recommended Applications

Urban Lighting	Pedestrian Areas	Cycle Tracks	Parkings	Parks
				

Standards

EN 60598-1, EN 60598-2-3, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3

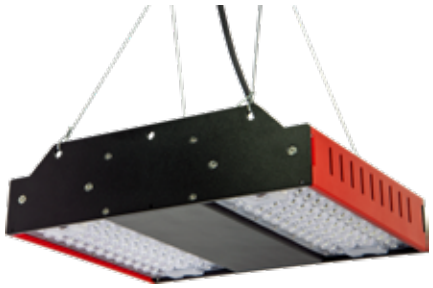
MINIMUM EXPOSED SURFACE

DRIVER SEPARATED

POST TOP INSTALLATION

60 or 76 mm POLE MOUNT

INDUSTRIAL LIGHTING



e-FACTORY

- EU regulation 2020/2019 Led Source Class C
- Overall fficiency 170 lm/W
- LED source lifetime (Ta=25°C)
  - >100,000 hr L70B50
  - >50,000 hr L90B10,TM21
- Modular design
- Ambient temperature up to 40°C
- High heat dissipation capacity
- Multilayer shape optical system
- Steel wire suspension system
- Can be ordered in DALI version
- More than 60% of recyclable materials
- MADE IN ITALY

Light Source

LED LUXEON 5050

4.000 or 5.000 K

CRI 70/80

LED SOURCE Efficiency fino a 235 lm/W @ 60 mA

Electric & Power Supply

100-240 VAC 50-60 Hz (-15%/+10%)

Cosφ > 0,95

Insulation IEC Class I

Overvoltage protection 10kV

Lamp body

Epoxy primer coated finishing steel

Anti yellowing PC secondary lenses

Weights: e-FaCTORY S 4,4 Kg – e-FaCTORY M 6,0 Kg

IP65 - IK08

Installation

Operating temperature -30 °C ÷ +40 °C

Recommended installation height from 7 to 15 m

Stell wire suspension system

Mains connection: Free terminal H05RN-F 2x1 m² l=1m cable

PHOTOMETRICS

20° 40° 60° 90°

We recommend the best photometric based on the real lighting requirements of the workspace

Performance

Product Variants	CCT	Rated Power	Luminous Flux	Flusso Luminoso
e-FACTORY S	4.000 K	100W	17.000 lm	17.000 lm
e-FACTORY M	4.000 K	200W	34.000 lm	34.000 lm

Recommended Applications

Industry	Warehouses	Exposition Halls	Large Covered Areas
			

Standards

EN 60598-1, EN 60598-2-1, EN 60598-2-24, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, EN 62493

Peculiarities

E-Lampsy's light keeps the potatoes green. A new application for horticulture.

Exposure to light is the main factor that influences the greening of potatoes since the red and blue spectral components, present in natural light, are photoactive, stimulate the production of solanine and chlorophyll and promote the sprouting of the potatoes.

The light created with the LEDs of the E-Lampsy lamps selected in the green spectral band prevents the greening process and the formation of toxins inside the potatoes.

Product Variants	Lenght	Width	Height	Weight
e-FACTORY S	250	296	97	4,4 Kg
e-FACTORY M	374	296	97	6,0 Kg

Controls

F: Fixed (Standard)

1-10V

DA: DALI

e-CLOUD

• EU regulation 2020/2019 Led Source Class D

LED Service Life (Ta 35°C)

>100,000hr L70B50

>50,000hr L90B10,TM21

• UGR<19 anti-glare technology

• Ambient temperature up to 70°C

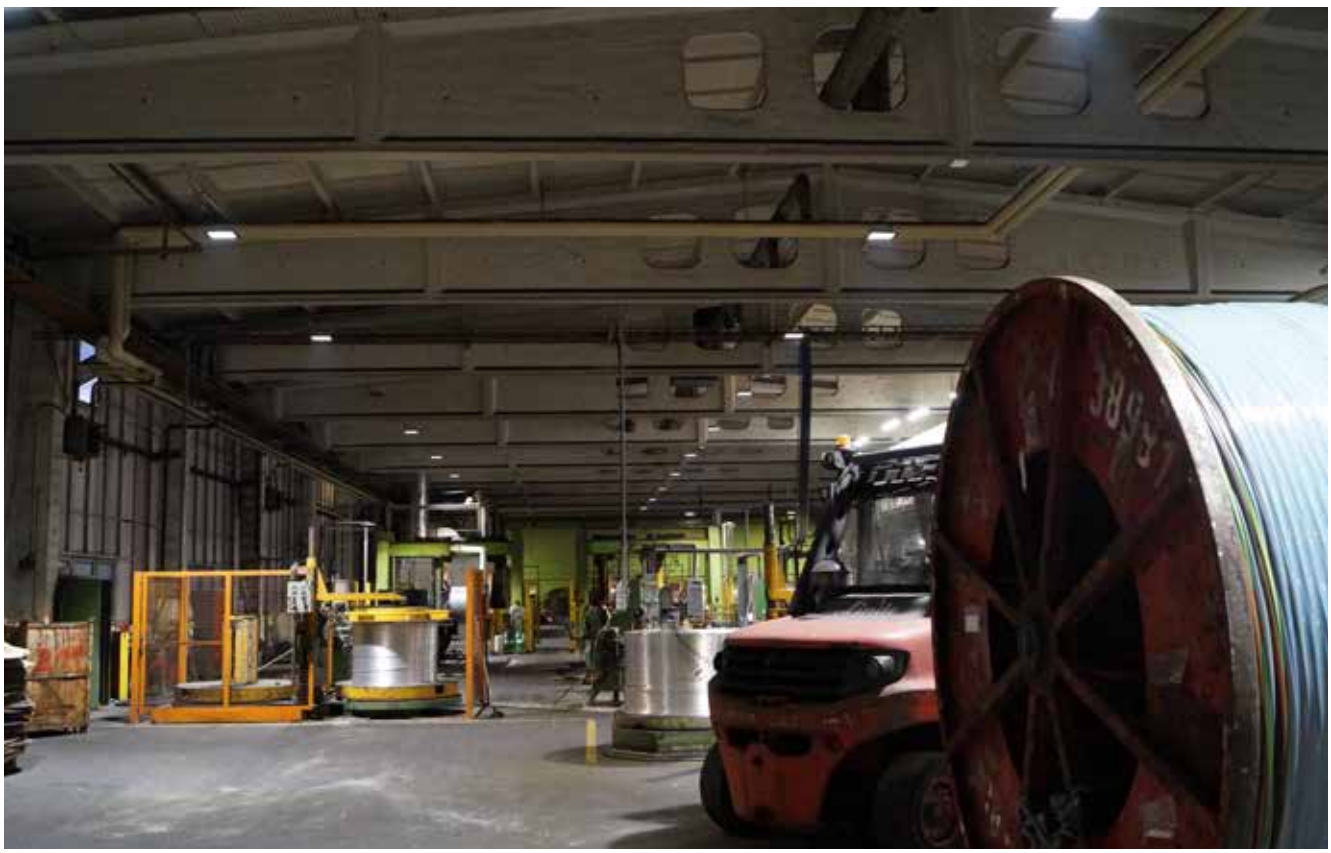
• Multilayer shape optical system

• Can be ordered in DALI version or with independent Backup group

• Suspended installation with steel cables

• 60 - 70% energy saving if compared to gas-discharge lamps

• More than 60% of recyclable materials



Light Source

LED CREE JB-3030

4.000 or 5.000 K

CRI 80

LED SOURCE Efficiency fino a 218 lm/W @ 65mA

Electric & Power Supply

230-240 VAC 50-60HZ (-15%/+10%)

Cosφ > 0,95

IEC Class I Insulation

6 kV Overvoltage protection

Lamp body

Powder coated die-cast aluminium

Lenses and black anti-glare mask made of PC

Weight: 3.8 Kg (100W) - 4.2 Kg (150W) - 5.5 Kg (200W)

IP65 Protection

Driver housing separated from LED housing

Installation

Operating temperature -30 °C ÷ +70 °C

Recommended installation height from 4 to 8 m

Suspended installation with steel cables

Optional wall installation bracket

Mains connection: Free terminal H05RN-F 3x1 m² l=1m cable

Photometrics

Diffusive

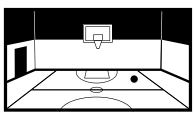
Concentrating

We recommend the best photometric based on the real lighting requirements of the workspace

Performance

Rated Power	CCT	CRI	Luminous Flux
100 W	4.000 K	80	16.000 lm
120 W	4.000 K	80	19.200 lm
150 W	4.000 K	80	24.000 lm
200 W	4.000 K	80	32.000 lm

Recommended applications (any context which requires a high visual comfort)

Sports Hall	Exhibition centres	Industrie con soffitto basso
		

Standards

EN 60598-1, EN 60598-2-1, EN 60598-2-24, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, EN 62493

Peculiarities

The problem caused by reflector glaring is an issue every time which the installation height is below 7 m. Under such conditions, visual comfort must be a prevailing feature for the selection of the product. E-cloud combines lighting performance and sheer visual comfort.

LED STANDARD DEVICE
LED UGR>22

Disconfort glare

e-CLOUD
UGR<19

Sheer Comfort - No visual fatigue

e-STAR²

- EU regulation 2020/2019 Led Source Class D
- Overall efficiency 160lm/W
- LED Service Life (Ta 35°C)
  - >100,000 hr L70B50
  - > 50,000 hr L90B10, TM21
- Ambient temperature up to 50°C
- Compact and light shape
- Multilayer shape optical system
- Excellent quality/price ratio
- Quick suspended installation with free terminal cables
- More than 60% of recyclable materials

GROUP 0
EN62471

5 WARRANTY YEAR

+ 55°C
-20°C

Led Source

LED 3030

4.000 K

CRI 80

ED SOURCE Efficiency up to 180 lm/W

Electric & Power Supply

230-240 VAC 50-60HZ (-15%/+10%)

Cosφ > 0,95

IEC Class I Insulation

4 kV Overvoltage protection

Lamp Body

Powder coated die-cast aluminium

Anti-yellowing PC lenses

Weight: 3.0 Kg

IP65 Protection

Driver housing separated from LED housing

Installation

Operating temperature -20 °C ÷ +50 °C

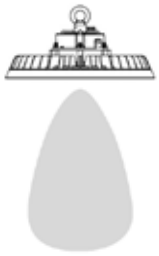
Recommended installation height from 6 to 12 m

Suspended Installation

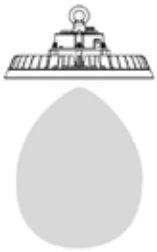
Optional wall installation bracket

Mains connection: Free terminal H05RN-F 3x1 m² l=1m cable

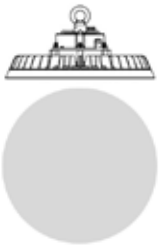
Photometrics



60°



90°



120°

We recommend the best photometric based on the real lighting requirements of the workspace

Performance

Rated Power	CCT	CRI	Luminous Flux
100 W	4.000 K	80	16.000 lm
150 W	4.000 K	80	24.000 lm
200 W	4.000 K	80	32.000 lm

Recommended Applications

Industry	Warehouses	Exhibition centres	Large Covered Areas
			

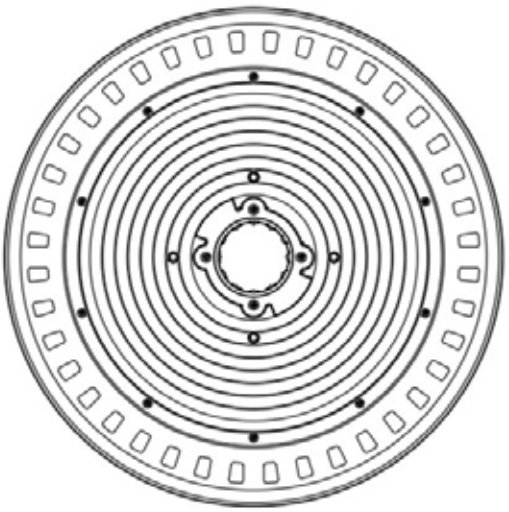
Standards

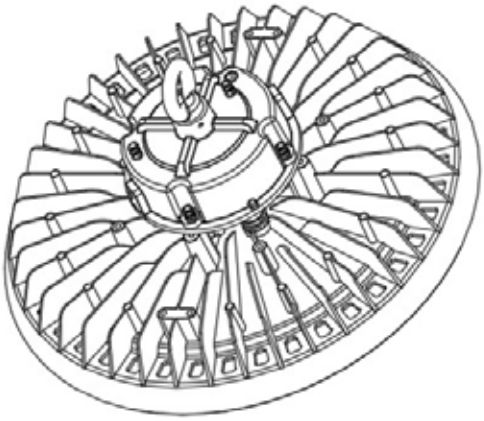
EN 60598-1, EN 60598-2-1, EN 60598-2-22, EN 60598-2-24, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, EN 62493

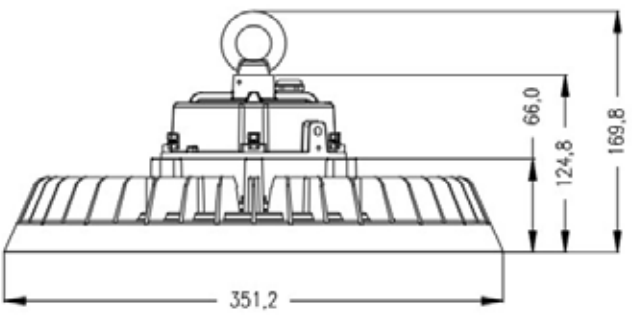
Installation

Wire Suspension

Technical Drawings







e-LINE HOL

- EU regulation 2020/2019 Led Source Class C
- LED Service Life (Ta 35°C)
  >100,000hr L70B50 @50°C TM21
- System efficiency 165 lm/W
- Ambient temperature up to 55°C
- High thermal dissipation thanks to the aluminium body
- PC lenses with optics developed for logistics corridors
- IP65 - IK10
- Suspended installation with cables or brackets
- Available in DALI or Emergency version with buffer battery
- Optional Wi-Fi System for managing the luminous environment
- Up to 80% energy saving if compared to discharge lamps
- High reduction in consumption for logistics warehouses
- More than 60% of recyclable materials

Light Source

LED 3030

4.000 or 5.000 K

CRI 80

LED SOURCE Efficiency fino a 190 lm/W @ 60 mA

Electric & Power Supply

230-240 VAC 50-60HZ (-15%/+10%)

Cosφ > 0,95

IEC Class I Insulation

4 kV Overvoltage protection

Lamp body

Powder Coated Aluminium Body

Anti-yellowing PC lenses

Weight: 1.9 Kg (50W) - 3.4 Kg (100W)

IP65 - IK10

Installation

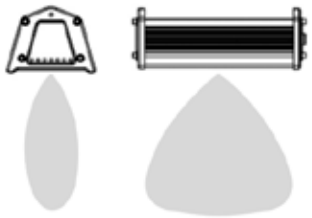
Operating Temperature -20 °C ÷ +55 °C

Recommended installation height from 7 to 15 m

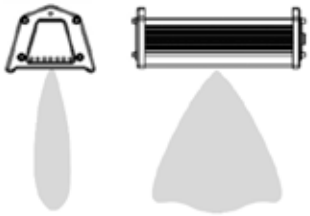
Suspended or bracket installation

Mains connection: Free terminal H05RN-F 2x1 m² l=1m cable

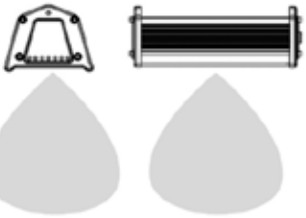
Photometrics



50x90°



30x70°



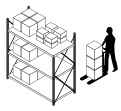
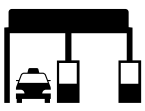
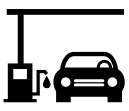
90°

We recommend the best photometric based on the real lighting requirements of the workspace

Performance

Rated Power	CCT	CRI	Luminous Flux
50 W	4.000 K	80	8.250 lm
100 W	4.000 K	80	16.500 lm

Recommended Applications

Warehouses with shelving	Ground Warehouses	Tollgates	Petrol stations
			

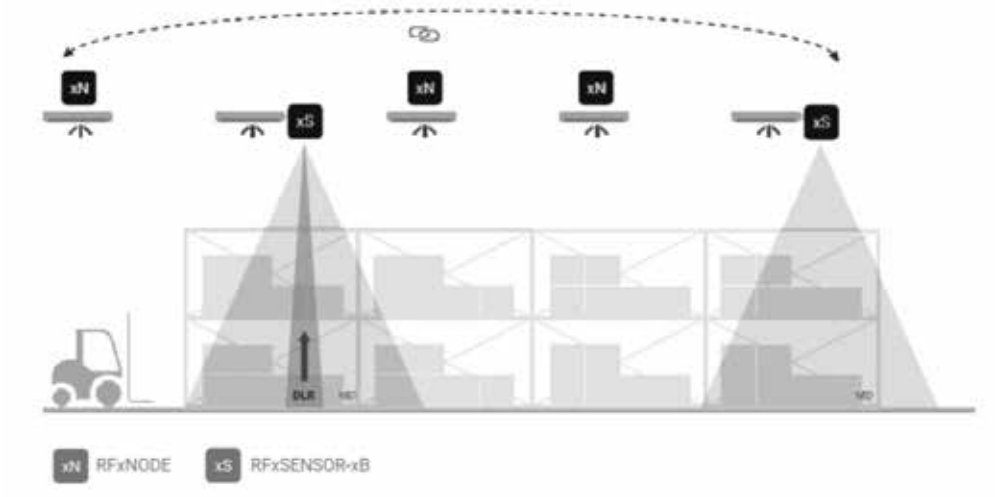
Standards

EN 60598-1, EN 60598-2-1, EN 60598-2-24, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, EN 62493

Accessories

Remote lighting system control and management devices, through proprietary Wireless Mesh Network protocol based on 868MHz frequency, resistant to interference and capable to reach long distances in "noisy" environments such as industrial premises.

Network example



Use of RFxNODE and RFxSENSOR for managing each DALI device.

Thanks to wireless synchronisation, each group can be independently managed.

Within a group only a RFxSENSOR module may be enabled for the DLR management (master).

Advantages of the WIRELESS solutions:

- No modification to the existent electrical systems thanks to the wireless technology
- Combined wired-wireless solutions form new and/or busbar systems
- Wide range and high noise immunity 868 MHz wireless technology
- The sensors can be installed at significant heights (up to 17 m)
- Consumption metering for each light source and/or supply line (also MID)
- Simple configuration by App for stand-alone systems
- On-premise/cloud professional software management for centralised systems
- Integration with Building Automation, SCADA, BMS and cloud systems

e-LINE

- EU regulation 2020/2019 Led Source Class C
- LED Service Life(Ta 35°C)
  >100,000hr L70B50 @50°C TM21
- System efficiency 140 lm/W
- Ambient temperature up to 55°C
- High thermal dissipation thanks to the aluminium body
- Opal diffuser for maximum visual comfort
- IP65 - IK10 - glow wire 850°C
- Electric connection with quick connectors, without any tools
- Installation with adjustable brackets along the device body
- Available in DALI or Emergency version with buffer battery
- 60% energy saving if compared to discharge lamps
- More than 60% of recyclable materials

Light Source

LED 2835

4.000 or 6.000 K

CRI 80

LED SOURCE Efficiency up to 208 lm/W @ 60 mA

Electric & Power Supply

230-240 VAC 50-60HZ (-15%/+10%)

Cosφ > 0,95

IEC Class I Insulation

2 kV Overvoltage protection

Lamp body

Extruded Aluminium Body

Opal anti-yellowing PC-1100 diffuser

Weight: 1.0 Kg (20 - 40W) - 1.5 Kg (60W)

IP65 - IK10

Glow Wire 850 °C

Installation

Operating temperature -20 °C ÷ +55 °C

Recommended installation height from 2 to 8 m

Direct or suspended Installation

Mains connection: IP68 quick connector

Photometrics

Diffusive

Performance

Rated Power	CCT	CRI	Luminous Flux
20 W	4.000 K	80	2.800 lm
40 W	4.000 K	80	5.600 lm
60 W	4.000 K	80	8.400 lm

Recommended Applications

Industry	Warehouses	Indoor parkings	Workspaces
			

Standards

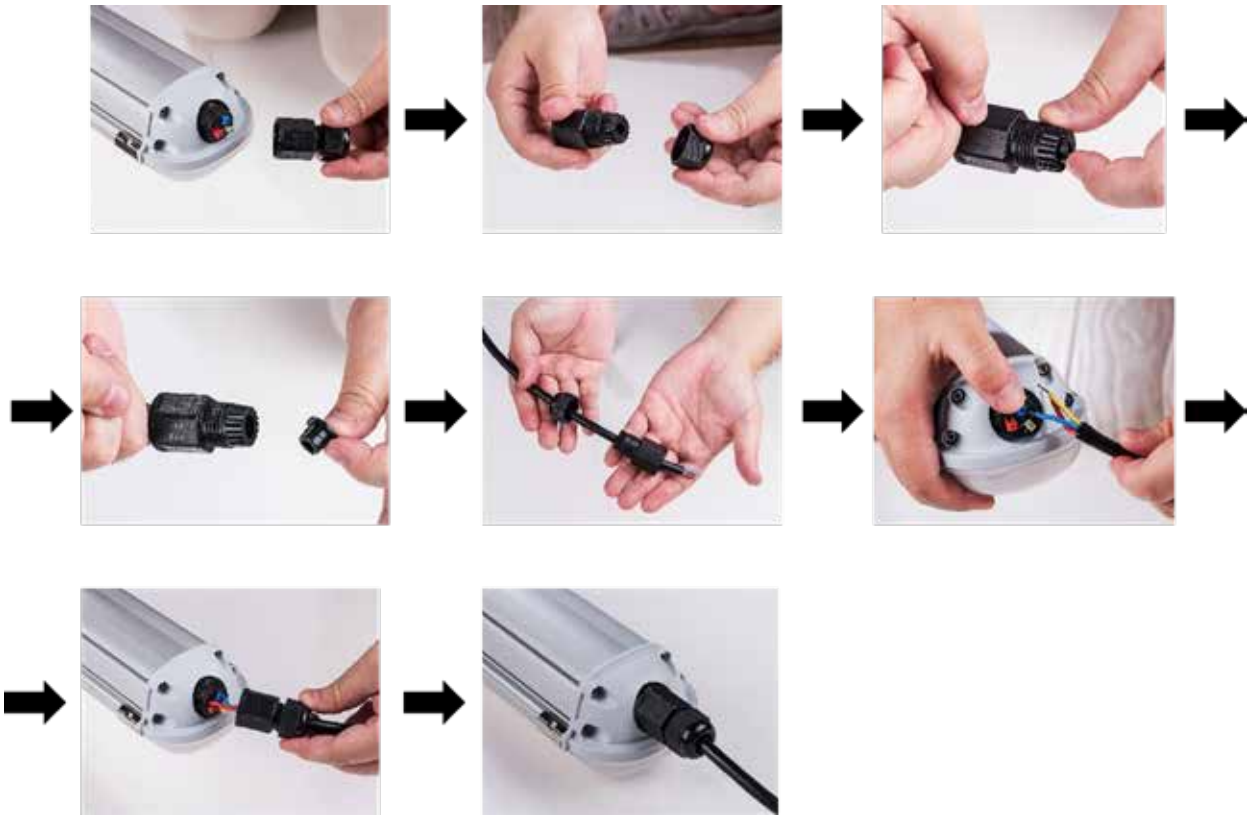
EN 60598-1, EN 60598-2-1, EN 60598-2-24, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, EN 62493

Installation

Installation by brackets to be arranged on the heatsink and to be adjusted lengthwise for the best positioning.

Quick wiring with three-pin plug in a IP68 joint

This solution allows an easy replacement of fluorescent devices also on older bus-bar systems whose spare parts are no longer available. Just cut the connection cable to the fluorescent lamp and reconnect it to the e-Line together with its plug. There is no longer any need to add branching boxes or to extend the supply cable in case of suspended devices.



OFFICE LIGHTING

e-PANEL

- EU regulation 2020/2019 Led Source Class D
- LED Service Life (Ta 35°C)
  >100,000hr L70B50 @25°C TM21
- System efficiency 120 lm/W
- UGR<19 High transmittance anti-glare microprismatic technopolymer diffuser
- SDCM = 3
- Dimensions 595x595 mm or 1195x295 mm
- Flush - ceiling - suspended with steel cables installation
- Available in DALI or Emergency version with battery backup
- 60% energy saving if compared to discharge lamps with equal flux
- More than 60% of recyclable materials

Light Source

LED 4014

3.000 - 4.000 K

CRI 80

Net device efficiency: 120 lm/W

Electric & Power Supply

230-240 VAC 50-60HZ (-15%/+10%)

Cosφ > 0,95

IEC Class I Insulation

Lamp body

Powder coated aluminium frame, white colour

UGR<19 anti-glare microprismatic technopolymer diffuser

Weight: 3.3 Kg (595x595 mm or 1195x295 mm)

IP20/40

Optional accessories for different installation

Installation

Operating Temperature 0 °C ÷ +40 °C

Recommended installation height from 2.7 to 5 m

Recessed installation

Ceiling installation with optional aluminium frame kit

Optional suspended installation with steel cables

Photometrics

Diffusive UGR<19

Performance

Rated Power	CCT	CRI	Luminous Flux
31 W	4.000 K	80	3.800 lm

Recommended Applications

Offices	Showroom	Gyms	Hospitals
			

Standards

EN 60598-1, EN 60598-2-22, EN62471

OUTDOOR AND SPORTS LIGHTING

e-MAX

- EU regulation 2020/2019 Led Source Class C
- Overall fficiency 170 lm/W
- LED source lifetime (Ta=25°C)
  - >100,000 hr L70B50
  - >50,000 hr L90B10,TM21
- Modular design
- 10kV Surge protection
- Ambient temperature up to 40°C
- High heat dissipation capacity
- Multilayer shape optical system
- Symmetric and asymmetric beam
- Adjustable bracket for easy aiming
- Can be ordered in 1-10V or DALI version
- More than 60% of recyclable materials
- MADE IN ITALY

Light Source

LED LUXEON 5050

4.000 or 5.000 K

CRI 70/80

LED SOURCE Efficiency up to 235 lm/W @ 60 mA

Electric & Power Supply

100-240 VAC 50-60 Hz (-15%/+10%)

Cosφ > 0,95

Insulation IEC Class I

Overvoltage protection 10kV

Lamp body

Epoxy primer coated finishing steel

Anti yellowing PC secondary lenses

Weights: 3,6 Kg (e-MAX S) – 5,1 Kg (e-MAX M) – 7,1 Kg (e-MAX L) - 16 Kg (e-MAX XL) – 25 Kg (e-MAX XXL)

IP65 - IK08

Installation

Operating temperature -30 °C ÷ +40 °C

Recommended installation height from 5 to 25 m

Adjastable bracket for easy aiming

Mains connection: Free terminal H05RN-F 2x1 m² l=1m cable

Photometrics

ASYMMETTRIC BEAM

LARGE AREA BEAM

20°

40°

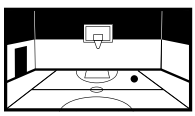
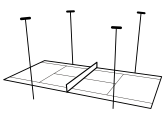
We recommend the best photometric based on the real lighting requirements of your application.

Performance

Model	Rated Power	CCT	CRI	Luminous Flux*
e-MAX S	120 W	5.000 K	70	20.000 lm
e-MAX M	240 W	5.000 K	70	40.000 lm
e-MAX L	320 W	5.000 K	70	54.000 lm
e-MAX XL	480 W	5.000 K	70	80.000 lm
e-MAX XXL	960 W	5.000 K	70	160.000 lm

* Rated Luminous Flux depends by used secondary lens.

Recommended Applications

Sports halls	Outdoor sports fields	Parkings
		

Standards

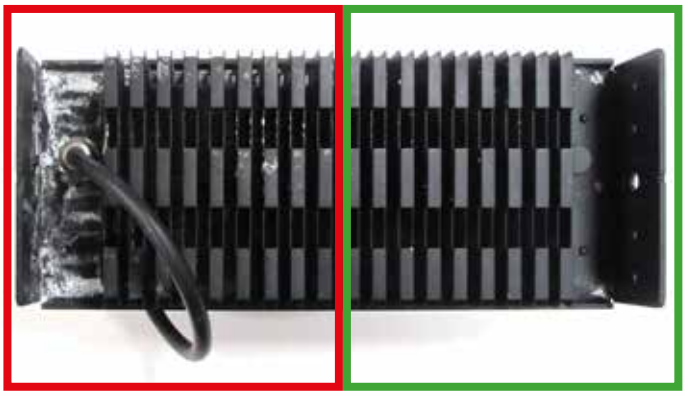
EN 60598-1, EN 60598-2-3, EN 60598-2-5, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, DIN 18032-3

Peculiarities

The new technology in the protection of materials: the nanotechnological treatment by E-Lampsy.

This treatment gives to materials a very high repellency and protection from degradation, corrosion, oxidation, chemical, physical, atmospheric, contaminants and pollutants, which lasts for a long time. Thanks to nanotechnology, no surface film is generated because the bond with the materials occurs at a molecular level and the protection becomes an integral part of the treated surfaces, without adding thickness and weight, without affecting the breathability of the material and being completely invisible.

Samples after corrosion test at 500h



Untreated Treated

Model	Lenght	Width	Height	Weight
e-MAX S	243 mm	295 mm	85 mm	3,6 Kg
e-MAX M	366 mm	295 mm	105 mm	5,1 Kg
e-MAX L	489 mm	295 mm	105 mm	7,1 Kg
e-MAX XL	421 mm	625 mm	192 mm	16 Kg
e-MAX XXL	664 mm	670 mm	197 mm	25 Kg

Controls (Optional)

F: Fixed Non Dimmable (Standard)

1-10V

DA: DALI

WiFi (see following)

Accessories

Remote lighting system control and management devices, through proprietary Wireless Mesh Network protocol based on 868MHz frequency, resistant to interference and capable to reach long distances such as in sports applications.

Sport application example (soccer field with four poles)

Use of No. 4 RFxLT4 / 8/16/32 modules: they can be installed in an electrical cabinet at the base of each pole, they manage up to 4/8/16/32 LED drivers (depending on the version). Each single module requires a 24Vdc power supply which must be protected from mains overvoltages.

Field management is possible through 2 different solutions:

- Solution A - Wireless BASIC with remote control
- Solution B - Wireless GRAPHIC Touch Panel

Solution A - Wireless BASIC with remote control

This solution makes it possible to call up four different light levels using the keys of the RFxGATE LT module; for example 100%, 70%; 40% and OFF, which can be used depending on the use of the field itself (first team match, youth match and training or OFF).

The RFxGATE module is also the connection interface between the 868MHZ wireless network and the programming Mobile App that allows to configure the wireless system e then customizing the operating receipt.

Solution B - Wireless GRAPHIC Touch Panel

In addition to the possibilities of Solution A it adds controls via Touch Panel from suitable PC with graphic screen.

e-SPORT MAX

- EU regulation 2020/2019 Led Source Class D
- Overall fficiency 140 lm/W
- LED source lifetime (Ta=25°C)
  >100,000 hr L70B50
  >50,000 hr L90B10,TM21
- 10kV Surge protection
- Ambient temperature up to 40°C
- Optical system Multilayer shape
- Asymmetrical Lenses comply with Italian Regional laws Against Sky Pollution
- Can be ordered in 1-10V dimmable version
- More than 60% of recyclable materials
- Driver internal or in separated box
- 230 or 380 VAC

Light Source

LED 5050

4.000 or 5.000 K

CRI 70, 80

LED SOURCE Efficiency up to 200 lm/W

Electric & Power Supply

100-240 VAC 50-60 Hz (-15%/+10%)

Cosφ > 0,95

Insulation IEC Class I

Overvoltage protection 10kV

Lamp Body

Epoxy primer coated finishing Aluminium body

PC secondary lenses

4mm tempered glass

Weight: 5÷600 W 18 Kg - 10÷1200 W 31 Kg - Driver Box 11 Kg

IP66 - IK08

Installation

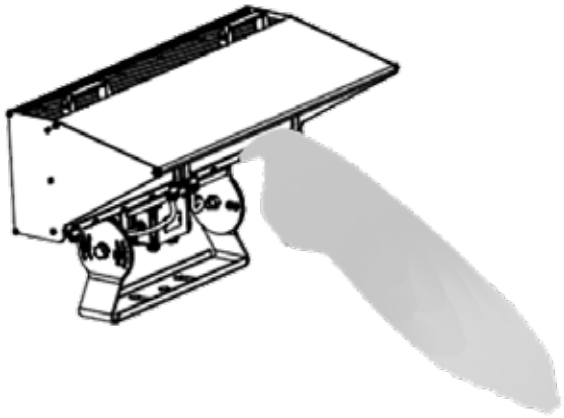
Operating temperature -30 °C ÷ +40 °C

Recommended installation height from 18 to 30 m

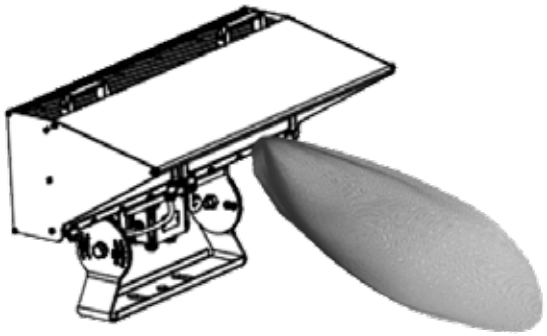
Adjastable bracket for easy aiming

Mains connection: Free terminal H05RN-F 2x1 m²

Photometrics



Asymmetrical



Strongly Asymmetrical

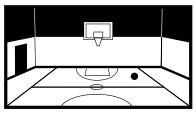
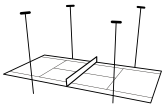
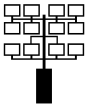
We recommend the best photometric based on the real lighting requirements of your application.

Performance

Rated Power	CCT	CRI	Luminous Flux*
500 W	5.000 K	70	85.000 lm
600 W	5.000 K	70	99.000 lm
1000 W	5.000 K	70	170.000 lm
1200 W	5.000 K	70	198.000 lm

* Rated Luminous Flux depends by used secondary lens.

Recommended Applications

Sports halls	Outdoor sports fields	High Mast Towers
		

Standards

EN 60598-1, EN 60598-2-3, EN 60598-2-5, EN 62471, EN 55015, EN 61547, EN 61000-3-2, EN 61000-3-3, DIN 18032-3

Accessories

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Solution B - Wireless GRAPHIC Touch Panel

In addition to the possibilities of Solution A it adds controls via Touch Panel from suitable PC with graphic screen.

e-lampsy lighting professionals
Energia LED Division

Energia power quality maximum saving

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