

872-ENTRY PC

Industrial dust and waterproof luminaires with LED modules

**Trend-setting lighting in IP66 (option in IP67), quick installation.
Specially developed for LED applications.**

YOUR MAIN BENEFITS:

Size perfectly **adapted to LED**, easy to install, **slim design**



FIELD OF APPLICATION:

Thanks to the construction principles of gasket, closing system and diffuser our LED fixtures ensure a high grade of protection (IP66) against dust, contamination and water permeation. (Optionally available in IP67). In accordance with their IP rating they can be widely used to illuminate spaces with dusty and humid environment. Thanks to its **enhanced impact resistance**, 872-Entry PC is especially suitable for applications, where a **high IK impact rating** is required.

When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions. Under 0°C the application of venting cable gland is necessary, as well as the silicone gasket is recommended.

TECHNICAL DESCRIPTION AND BENEFITS:

■ **Housing:** It is made of flame retardant **injection moulded Polycarbonate (PC)** in light grey (RAL7035) colour (suitable for 850°C glow wire test too). Polycarbonate has very high mechanical strength and allows us to reach an excellent shock resistance.

■ **Diffuser:** Available in **PC** - injection moulded **opalised Polycarbonate** (high mechanical strength and high heat and shock resistance). As option, injection moulded acrylic (PMMA) diffuser in opal version is available (not IK08).

Further benefits:

- **Extremely high lighting efficiency** through high **light permeability, unique on the market**, up to 90%
 - An **excellent light uniformity** through **well-balanced light dispersing** (no shadows)
 - **Elimination of the dazzling effect** (no glare)
 - **Keeping the usual, well known features of the diffuser** such as chemical and heat resistance, mechanical features, **UV stabilization** etc.
 - **Universal width** (no single and twin) and slim **shape simplifies the light calculation**.
- The **gasket** between the diffuser and the housing is available in two versions:
- **Injected silicone-based endless foam**
 - **Non-aging PU** (polyurethane) **endless foam**
- **Fixing the diffuser to the body:** With tamper-proof (vandal-proof) stainless steel clips.
- **Gear tray** (reflector): White powder coated steel sheet according to Zhaga standards or customised.
- **Electrical components:** The adequate power supply is ensured through electronic driver, that is built into the luminaire.

LED

CE

EN 11

872-ENTRY PC

IP66



Option:

IP67



1F

3F



PC
850°C



Main technical options

Our **opalised** diffuser achieves an **outstanding light transmissivity** of **up to 90%**. With this great light permeability, it is **an excellent choice for luminaires equipped with LED-modules**.



Compact design for LED



In order to optimise the thermal management of the luminaire we avoid the direct contact of the gear tray and driver, thus increasing the lifetime of the modules and driver.

With 872-Entry PC - depending on customer requirements - we can reach different levels of luminous flux (lumen) by keeping the **luminous efficacy above 153 lm/Watt**. Details see: Technical data.

The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.



The special **tamper-proof stainless steel clips** cannot be released with bare hands.

The **opal diffusers** are made of UV-stabilized material, specially **developed for LED** applications. This ensures among others a well-balanced light distribution and the **elimination of glare**.

The injected **silicon-based gasket** with enhanced resistance ensures **maximum** chemical and weather **resistance** even under tough conditions. Non-aging polyurethane foam is optionally available.



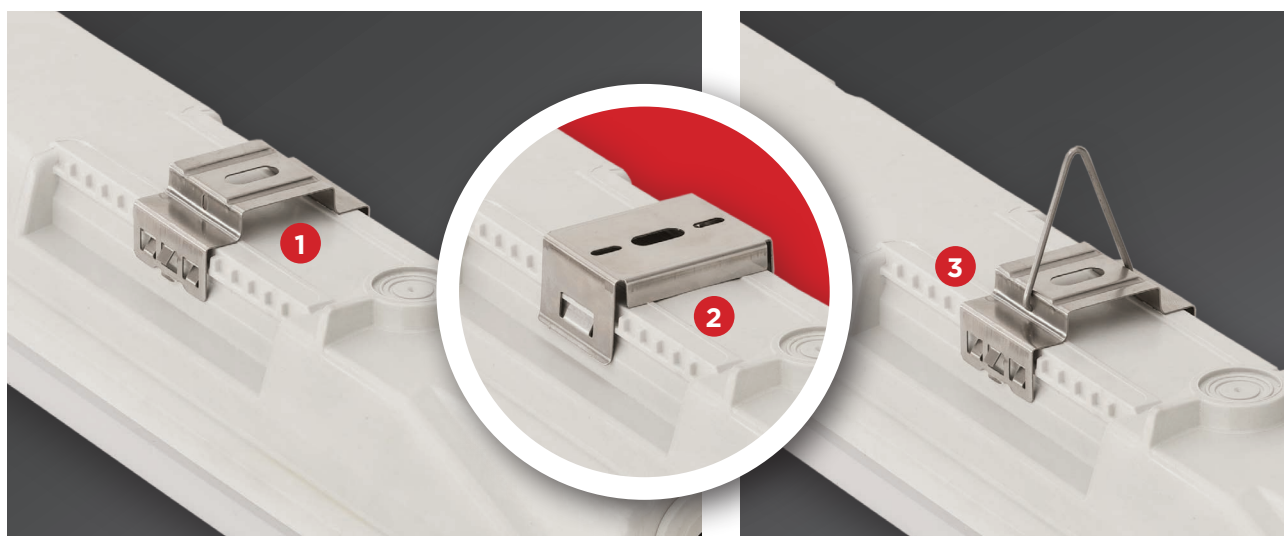
OPTIONS FOR CABLE ENTRY:

IP66 grommet

Cable gland



The **Rapid Connector** enables the electrical connection **without disassembling** the luminaire, thus **avoiding** a potential damage of the LED's inside the luminaire through **electrostatic discharge (ESD)**.



Ways of installing (options):

1. With **standard** (0,4 mm) stainless steel mounting brackets (easy-to-install) onto the **ceiling**.
2. With **strengthened** (0,6 mm) stainless steel mounting brackets. They are easy-to-install onto the **ceiling or the wall** (in horizontal position).

3. **Suspension** on chains, wire ropes etc. with stainless steel mounting brackets and **with hooks**.

The mounting brackets can be positioned with **lateral flexibility** for easy installation.

Technical data (extract)

* EPREL data base is available at <https://eprel.ec.europa.eu/screen/product/lightsources/xxxxxxx>
(where the xxxxxx have to be substituted by the reference number given in the last column)

| Products with 5 years or optionally with 3 years warranty | Power (W) | Lum. total luminous flux emitted (lm) | | Lum. efficacy (lm/W) | | CCT (Kelvin) | CRI | Lifetime L70B50 (Ta=35°C) | Lifetime L80B10 (Ta=35°C) | A (mm) | B (mm) | Weight (kg) | EEI | Light source* (reference) |
|---|-----------|---------------------------------------|------|----------------------|-----|--------------|-----|---------------------------|---------------------------|--------|---------|-------------|-----|---------------------------|
| | | PMMA | PC | PMMA | PC | | | | | | | | | |
| Lumnium EU 130 with Osram driver | | | | | | | | | | | | | | |
| 872 4ft (1200mm) | 25 | 3500 | 3300 | 136 | 126 | 4000 | >80 | >72 000 h | >50 000 h | 1185 | 700±78 | 1,5 | D | 802364 |
| 872 5ft (1500mm) | 30 | 4500 | 4200 | 137 | 127 | 4000 | >80 | >72 000 h | >50 000 h | 1477 | 1000±78 | 1,8 | D | 734821 |
| 872 4ft (1200mm) | 36 | 5300 | 4900 | 136 | 126 | 4000 | >80 | >72 000 h | >50 000 h | 1185 | 700±78 | 1,5 | D | 734862 |
| 872 5ft (1500mm) | 50 | 7000 | 6600 | 137 | 127 | 4000 | >80 | >72 000 h | >50 000 h | 1477 | 1000±78 | 1,8 | D | 734813 |
| Lumnium EU PRO 160 with Osram driver | | | | | | | | | | | | | | |
| 872 4ft (1200mm) | 22 | 3500 | 3200 | 159 | 145 | 4000 | >80 | >72 000 h | >50 000 h | 1185 | 700±78 | 1,5 | C | 803878 |
| 872 5ft (1500mm) | 27 | 4400 | 4100 | 163 | 152 | 4000 | >80 | >72 000 h | >50 000 h | 1477 | 1000±78 | 1,8 | C | 734800 |
| 872 4ft (1200mm) | 31 | 5000 | 4600 | 161 | 148 | 4000 | >80 | >72 000 h | >50 000 h | 1185 | 700±78 | 1,5 | C | 803933 |
| 872 5ft (1500mm) | 41 | 6800 | 6300 | 165 | 153 | 4000 | >80 | >72 000 h | >50 000 h | 1477 | 1000±78 | 1,8 | C | 734760 |
| Osram Basic Linear G3 | | | | | | | | | | | | | | |
| 872 4ft (1200mm) | 23 | 3000 | 2700 | 130 | 120 | 4000 | >80 | 50 000 h | 46 000 h | 1185 | 700±78 | 1,5 | D | 892186 |
| 872 5ft (1500mm) | 28 | 3900 | 3600 | 140 | 130 | 4000 | >80 | 50 000 h | 50 000 h | 1477 | 1000±78 | 1,8 | D | 892176 892186 |
| 872 4ft (1200mm) | 39 | 5400 | 5000 | 140 | 130 | 4000 | >80 | 50 000 h | 41 000 h | 1185 | 700±78 | 1,5 | D | 892188 |
| 872 5ft (1500mm) | 47 | 6900 | 6400 | 145 | 136 | 4000 | >80 | 50 000 h | 41 000 h | 1477 | 1000±78 | 1,8 | D | 892178 892188 |
| Lumnium EU 130 HO with Osram DIP Switch driver | | | | | | | | | | | | | | |
| 872 4ft (1200mm) | 23 | 3400 | 3100 | 136 | 126 | 4000 | >80 | >72 000 h | >50 000 h | 1185 | 700±78 | 1,5 | D | 734862 |
| | 28 | 4100 | 3800 | | | | | | | | | | | |
| | 34 | 4800 | 4400 | | | | | | | | | | | |
| | 39 | 5300 | 4900 | | | | | | | | | | | |
| 872 5ft (1500mm) | 30 | 4500 | 4200 | 137 | 127 | 4000 | >80 | >72 000 h | >50 000 h | 1477 | 1000±78 | 1,8 | D | 734813 |
| | 37 | 5500 | 5100 | | | | | | | | | | | |
| | 44 | 6400 | 5900 | | | | | | | | | | | |
| | 51 | 7000 | 6600 | | | | | | | | | | | |

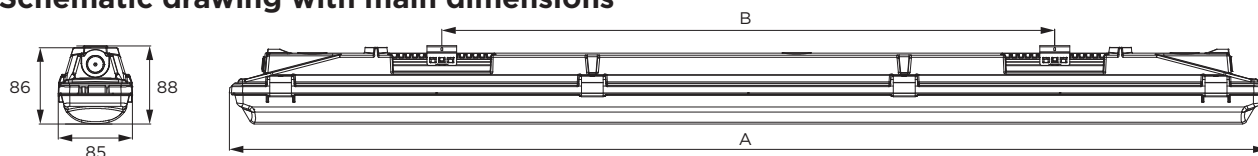
Further options:



On request:

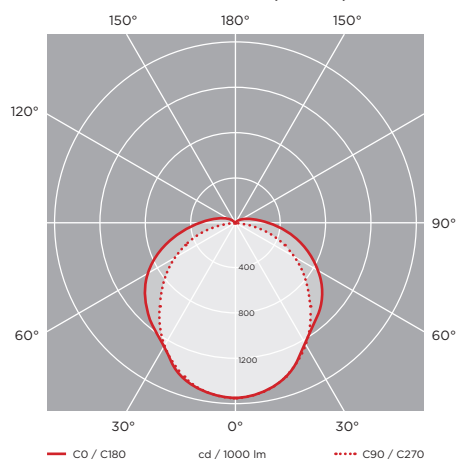


Schematic drawing with main dimensions

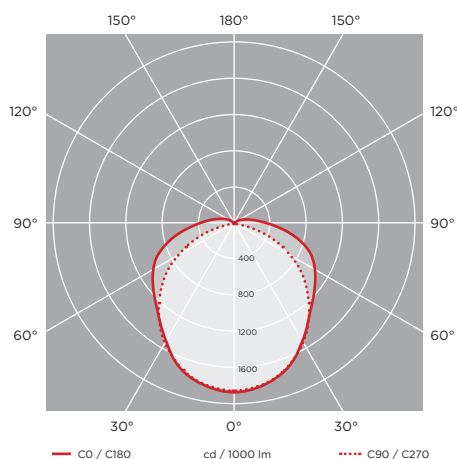


Photometric curves:

872-Entry PC 4ft (1200mm) PC,
Osram Basic Linear G3, 39W, 5000lm



872-Entry PC 5ft (1500mm) PC,
Lumium EU PRO 160 41W, 6300lm



Luminaire customisation and the options of advanced controls are presented on page 5