

872-ENTRY GRP

Industrial dust and waterproof luminaires with LED modules

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



872-ENTRY GRP

YOUR MAIN BENEFITS:

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



IP66



Option:

IP67



FIELD OF APPLICATION:

Thanks to the construction principles of the gasket, the closing system and the 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.

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

TECHNICAL DESCRIPTION AND BENEFITS:

■ **Housing:** - Available in flame retardant **glass fibre reinforced polyester**, in light grey (RAL7035) colour (on request suitable for 850°C glow wire test, too). The glass fibre reinforced polyester has a very good temperature resistance and mechanical stability. Furthermore, it is a good electrical insulator resisting the impacts of several chemicals and weather conditions. Its stability of size and shape at changing temperatures is excellent.

■ **Diffuser:** Available in **PC** - injection moulded **opalised Polycarbonate** (high mechanical strength and high heat and shock resistance) or in **Acrylic** - injection moulded **opalised PMMA** (unique non-aging properties, high chemical resistance).

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 housing is available in two versions:

- **Injected silicone foam**
- Non-aging **PU (polyurethane)** 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.

Main technical options

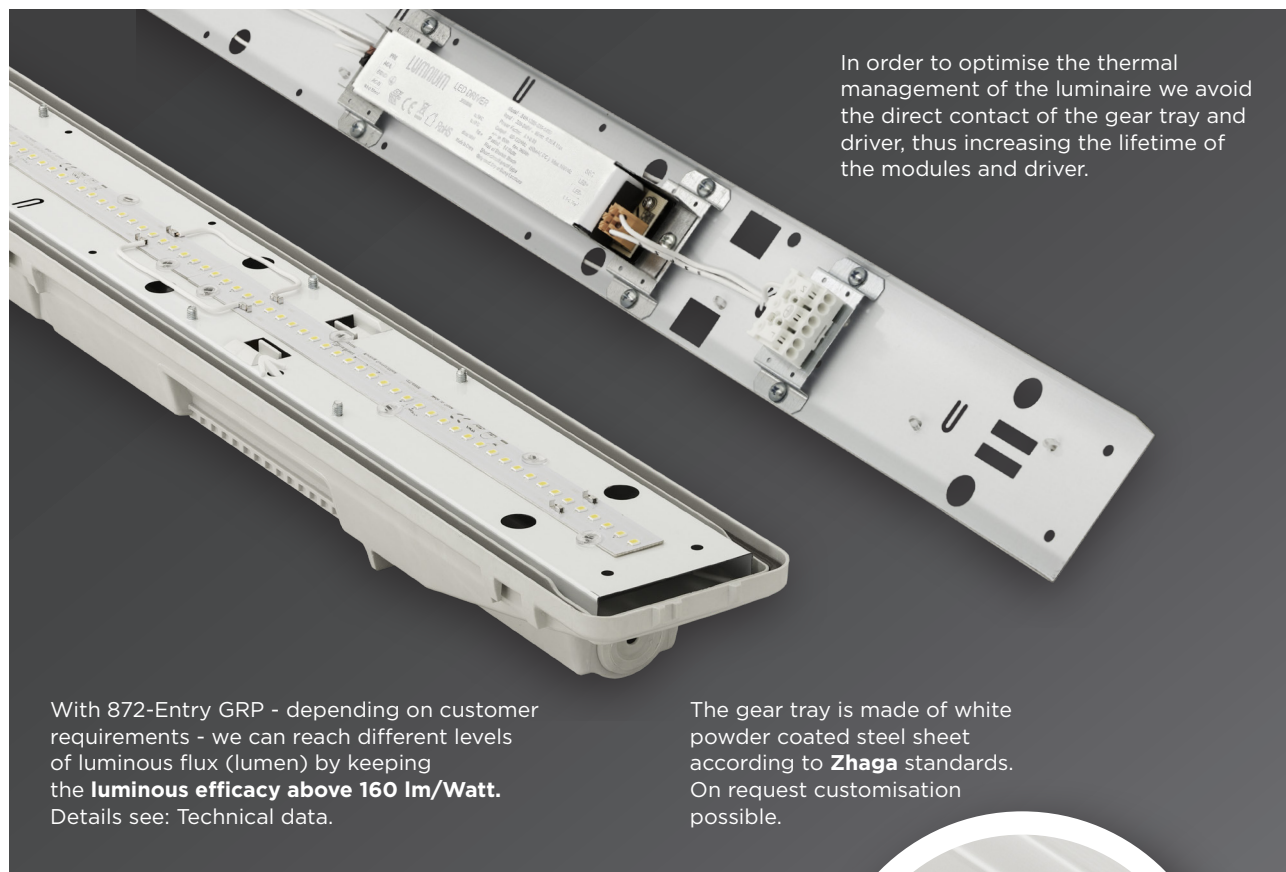
Our **opalised** diffuser achieves an **outstanding light transmissivity of up to 90%**. With this great light permeability, it is **an excellent choice for luminaires equipped with LED-modules**.



Compact design for LED



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 GRP - depending on customer requirements - we can reach different levels of luminous flux (lumen) by keeping the **luminous efficacy above 160 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.

872-ENTRY GRP



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



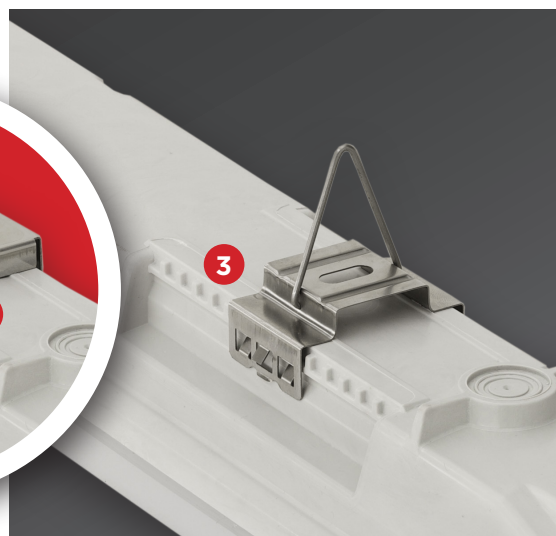
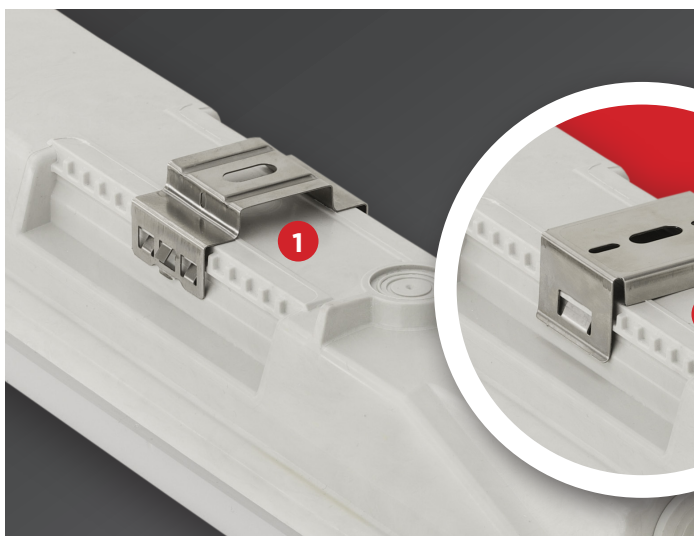
OPTIONS FOR CABLE ENTRY:

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)

Products with a 3-year or optionally with a 5-year warranty	Power (W)	Luminare total luminous flux - emitted (lm) PC or PMMA	Lum. efficacy (lm/W) PC or PMMA	CRI	Lifetime L70B50 (Ta=35°C)	Lifetime L80B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)	EEI
Lumnium EU with a DIP switch driver (CCT: 4000K, on request other CCTs are available)										
872 2ft (600mm)	19/24	2800/3400	142	>80	> 72 000 h	> 72 000 h	605	238±23	0,9	D
872 4ft (1200mm)	21/25/29/35	3200/3900/4400/5100	145	>80	> 72 000 h	> 72 000 h	1185	700±78	1,5	D
872 5ft (1500mm)	24/31/37/44	3900/4800/5600/6400	145	>80	> 72 000 h	> 72 000 h	1477	1000±78	1,8	D
872 4ft (1200mm)	21/27/32/38	3400/4200/4900/5500	145	>80	> 72 000 h	> 72 000 h	1185	700±78	1,5	D
872 5ft (1500mm)	28/36/43/51	4600/5600/6400/7400	145	>80	> 72 000 h	> 72 000 h	1477	1000±78	1,8	D
Lumnium EU PRO with a DIP switch driver (CCT: 4000K, on request other CCTs are available)										
872 4ft (1200mm)	20/25/31/36	3500/4200/5100/5800	160	>80	> 102 000 h	> 102 000 h	1185	700±78	1,5	C
872 5ft (1500mm)	21/26/32/37	3600/4500/5300/6100	165	>80	> 102 000 h	> 102 000 h	1477	1000±78	1,8	C
872 4ft (1200mm)	18/23/27/32	3200/3900/4600/5400	170	>80	> 102 000 h	> 102 000 h	1185	700±78	1,5	C
872 5ft (1500mm)	25/30/36/43	4300/5400/6400/7400	170	>80	> 102 000 h	> 102 000 h	1477	1000±78	1,8	C

LED

872-ENTRY GRP

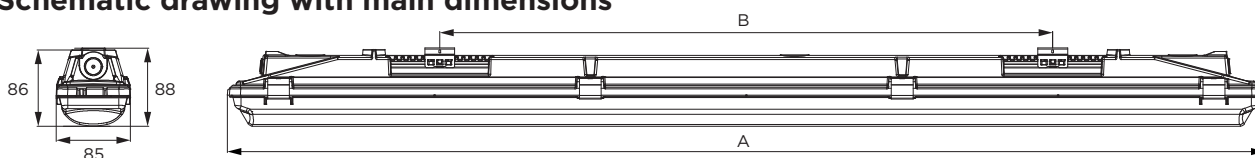
Further options:



On request:

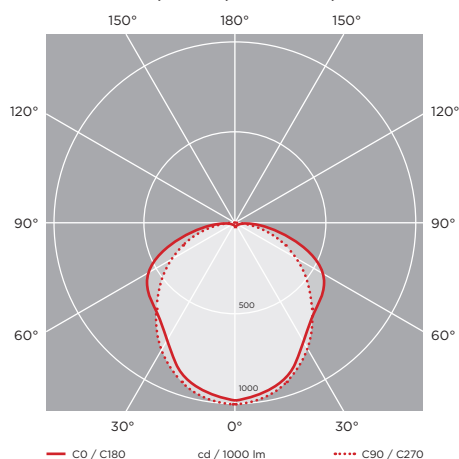


Schematic drawing with main dimensions

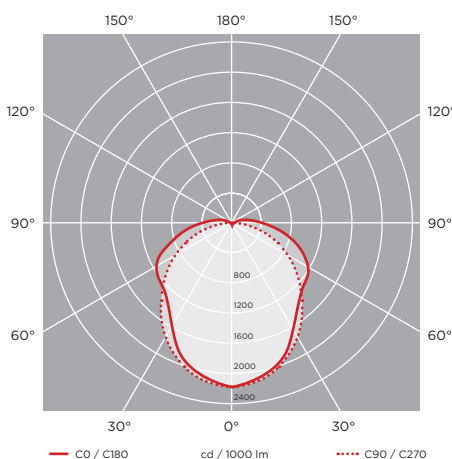


Photometric curves:

872-Entry GRP, 4ft (1200mm),
Lumnium EU, 36W, 5300lm, PMMA



872-Entry GRP, 5ft (1500mm),
Lumnium EU PRO, 41W, 6800lm, PMMA



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