

LED

# 870-INSPIRE GRP

High-end dust and waterproof luminaires with LED modules.

**Synergy of art and technology**  
**Inspiring design in professional quality.**

## YOUR MAIN BENEFITS:

**Gear tray integrated into the diffuser**

**Cost-efficient** and user-friendly **installation** even without disassembling the luminaire



IP66



Option:

IP67



1F

3F



## 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, on request IP67) against dust, contamination and water permeation. In accordance with their IP rating they can be widely used to illuminate spaces with dusty and humid environments.

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

## TECHNICAL DESCRIPTION AND BENEFITS:

■ **Housing:** It is made of flame retardant **GRP** - glass fibre reinforced polyester (on request suitable for 850°C glow wire test, too), in light grey (RAL7035) colour. 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 light transmissivity (up to 90%)**
- **Homogenous, well-balanced light dispersing** (no shadows)
- **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) **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 stainless steel clips.

■ **Gear tray (reflector):** The **gear tray is integrated into the diffuser** thus enabling a **cost-efficient and user-friendly installation** even **without disassembling** the luminaire. White powder coated steel sheet, the LED module mounting positions according to Zhaga standards or customized.

■ **Electrical components:** The adequate power supply is ensured with the electronic driver.

## Main technical options

Our new **opalised** diffuser made of UV-stabilized material achieves an **outstanding light transmissivity up to 90%**. This great light permeability offers **high efficacy (up to 160 lm/W)** emitted from the luminaire.

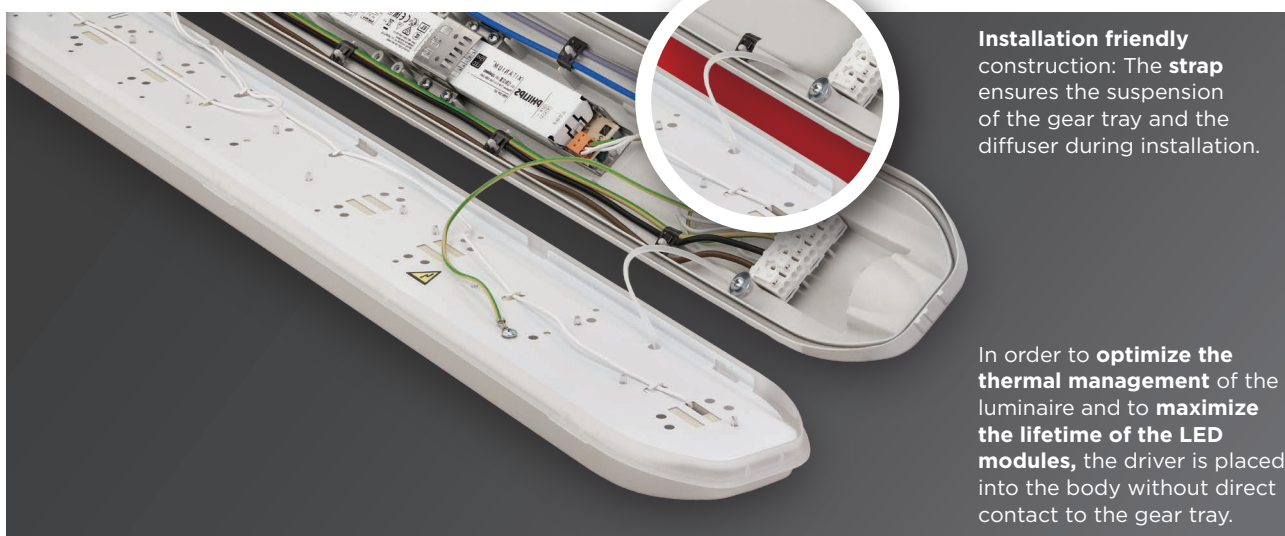


LED

To protect the **LED board**, the **gear tray is integrated into the diffuser** thus enabling a **cost-efficient and user-friendly quick installation** even without disassembling the luminaire.



870-INSPIRE GRP



The **gear tray**, made of white powder coated steel sheet according to **Zhaga** standards, is **integrated into the diffuser**. With 870-Inspire GRP - depending on customer requirements - we can reach different levels of luminous flux from 2700 up to **14000 lumen** with maximum **efficacy of 160 lm/W**. For more details please see technical data.

The injected **silicone-based gasket** with enhanced resistance ensures a **maximum** chemical and weather **resistance** even under tough conditions. This endless foam sealing ensures the high IP protection up to IP67.



#### OPTIONS FOR CABLE ENTRY:

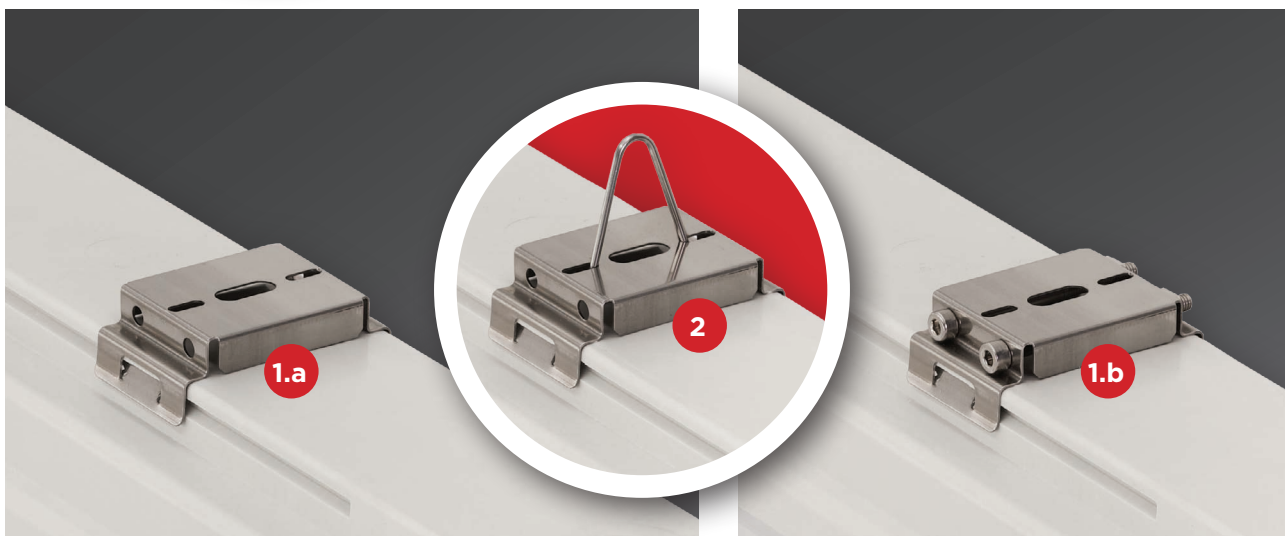
IP66 grommet



Cable gland



The **Rapid Connector** enables the electrical connection **without disassembling** the luminaire.



#### Ways of installing (options):

With **strengthened** (0,6 mm) stainless steel mounting brackets.

1.a They are easy-to-install onto the **ceiling or the wall** (in horizontal position).

1.b In case of vertical positioning, **fixing screws** keep the mounting brackets tight avoiding the luminaire from sliding.

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

**Easy installation:** Adjustable distance of the mounting brackets (they can be positioned laterally on the housing)



## Technical data (extract)

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

Products with a 5-year warranty	Power (W)	Lum. total luminous flux emitted (lm)		Lum. efficacy (lm/W)		CCT (Kelvin)	CRI	Lifetime L80B10 (Ta=45°C)	Lifetime L90B10 (Ta=45°C)	A (mm)	B (mm)	Weight (kg)	EEI	Light source* (reference)
		PMMA	PC	PMMA	PC									

### Lumnium EU 130 with Osram driver

870 4ft (1200mm)	24	3500	3500	145	145	4000	>80	>72 000 h**	>34 000 h**	1174	700±76	2	D	802364
870 5ft (1500mm)	30	4500	4500	149	149	4000	>80	>72 000 h**	>34 000 h**	1454	1000±76	2,2	D	734821
870 4ft (1200mm)	37	5200	5200	140	140	4000	>80	>72 000 h**	>34 000 h**	1174	700±76	2	D	734862
870 5ft (1500mm)	51	7000	7000	137	137	4000	>80	>72 000 h**	>34 000 h**	1454	1000±76	2,2	D	734813

### Lumnium EU PRO 160 with Osram driver

870 4ft (1200mm)	22	3450	3450	157	157	4000	>80	>102 000 h	>72 000 h	1174	700±76	2	C	803878
870 5ft (1500mm)	27	4200	4200	157	157	4000	>80	>102 000 h	>72 000 h	1454	1000±76	2,2	C	734800
870 4ft (1200mm)	32	5000	5000	158	158	4000	>80	>102 000 h	>72 000 h	1174	700±76	2	C	803933
870 5ft (1500mm)	44	7000	7000	160	160	4000	>80	>102 000 h	>72 000 h	1454	1000±76	2,2	C	734760

### Lumnium EU PRO 160 with Osram DIP Switch driver

870 4ft (1200mm)	19	3000	3000	162	162	4000	>80	>102 000 h	>74 000 h	1185	700±78	2	C	803933
	23	3700	3700											
	27	4500	4500											
	32	5200	5200											
870 5ft (1500mm)	25	4100	4100	163	163	4000	>80	>102 000 h	>74 000 h	1477	1000±78	2,2	C	734760
	32	5200	5200											
	38	6200	6200											
	44	7200	7200											

\*\* The application of through-wiring may influence the Ta. Max.

Products with a 5-year warranty	Power (W)	Lum. total luminous flux emitted (lm)		Lum. efficacy (lm/W)		CCT (Kelvin)	CRI	Lifetime L80B10 (Ta=35°C)	Lifetime L90B10 (Ta=35°C)	A (mm)	B (mm)	Weight (kg)	EEI	Light source* (reference)
		PMMA	PC	PMMA	PC									

### Lumnium EU PRO 140 HF with Philips driver

870 4ft (1200mm)	61	8300	8300	136	136	4000	>80	>72 000 h	>34 000 h	1174	700±76	2	D	734708
870 5ft (1500mm)	77	10400	10400	135	135	4000	>80	>72 000 h	>34 000 h	1454	1000±76	2,2	D	734742

### Philips Fortimo HV6

870 4ft (1200mm)	60	8800	8800	146	146	4000	>80	>64 000 h	>50 000 h	1174	700±76	2	C	893529
870 5ft (1500mm)	75	11000	11000	146	146	4000	>80	>64 000 h	>50 000 h	1454	1000±76	2,2	C	893525 893529

### Philips Fortimo HV6 HF 3klm/ft

870 4ft (1200mm)	74	11300	11300	152	152	4000	>80	>64 000 h	>50 000 h	1174	700±76	2	C	893537
870 5ft (1500mm)	92	14000	14000	152	152	4000	>80	>64 000 h	>50 000 h	1454	1000±76	2,2	C	893533 893537

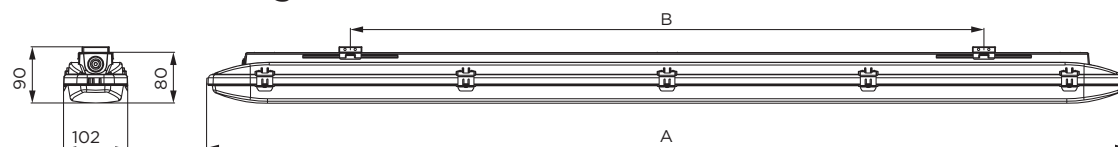
Further options:



On request:

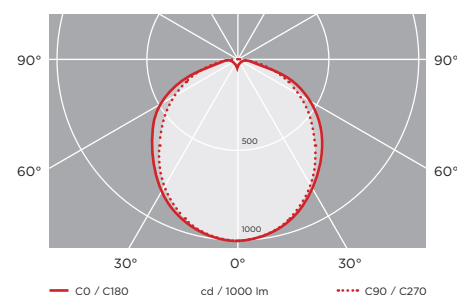


## Schematic drawing with main dimensions

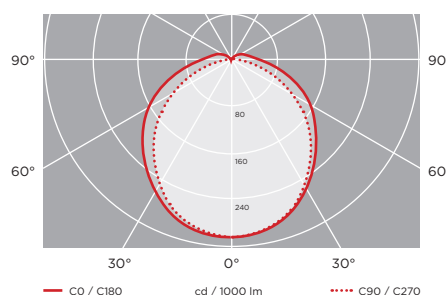


## Photometric curves:

870-Inspire GRP, 4ft, Lumnium EU 130, 24W, 3500lm, PMMA



870-Inspire GRP, 5ft, Lumnium EU PRO 140 HF 77W, 10400lm, PMMA



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