

CE

# **870-INSPIRE +/-**

High-end dust and waterproof luminaires with LED modules.

Professional quality suitable for wide application 2-in-1: Error-free functioning at extreme ambient temperature

#### **YOUR MAIN BENEFITS:**

A professional luminaire adapted for **extremely high and extremely low** ambient temperatures. **(Ta: -30 to +60 °C)** for wide usage, that fulfils the strongest quality requirements.



# IP66 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. In accordance with their IP rating they can be widely used to illuminate spaces with dusty and humid environments. Thanks to its **enhanced temperature resistance**, 870-Inspire +/- is especially suitable for applications, where **error-free functioning at high and low ambient temperature** is desired (industrial plants, cold stores, in countries with subtropic climate...etc.) 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.

### **TECHNICAL DESCRIPTION AND BENEFITS:**

- Housing: Available with PC or GRP body, in light grey (RAL7035) colour.

  In case of PC: It is made of flame retardant injection moulded polycarbonate (PC) suitable for 850°C glow wire test, too. Polycarbonate has very high mechanical strength and allows us to reach an excellent shock resistance. In case of GRP: It is made of flame retardant GRP glass fibre reinforced polyester 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). Thanks to its **enhanced impact resistance**, 870-Inspire +/- is especially suitable for applications, where **a high IK impact rating** at extreme ambient temperature is required.

#### **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 housing is injected silicone-based 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.



Option:

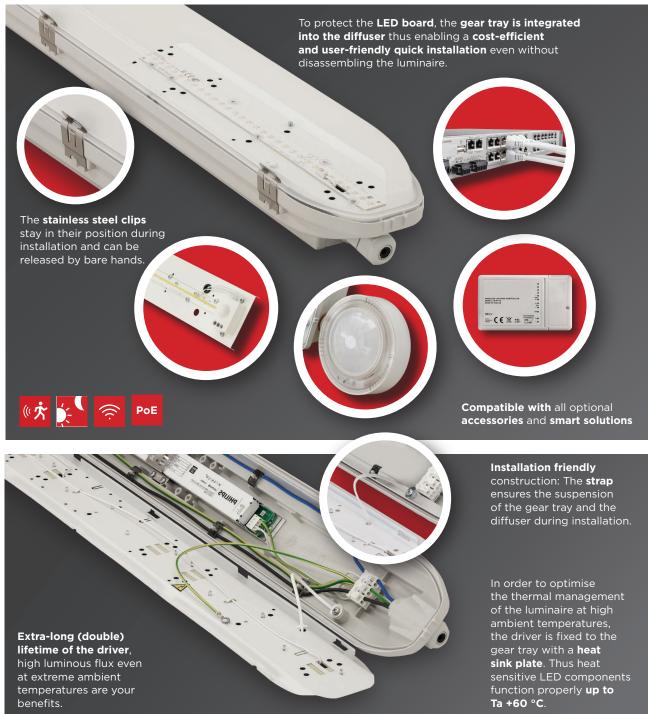


## Main technical options



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 141 lm/W) emitted from the luminaire.





The gear tray, made of white powder coated steel sheet according to Zhaga standards, is integrated into the diffuser. With 870-Inspire +/- - depending on customer requirements - we can reach different levels of luminous flux up to 9800 lumen with maximum efficacy of 141 lm/W. For more details please see technical data.

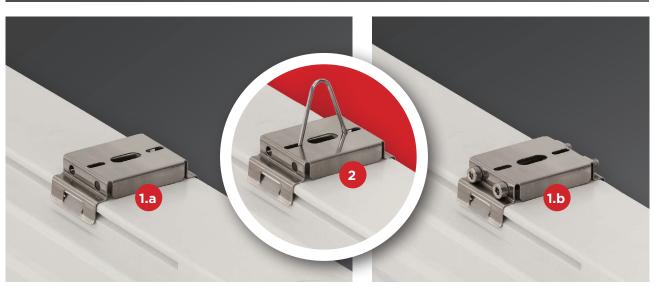




The injected silicone-based gasket with enhanced resistance ensures a **maximum** chemical and weather **resistance** even under tough conditions. This endless foam sealing ensures the high IP protection up to IP67.







### 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 xxxxxxx has to be substituted by the reference number given in the last coloumn)

Products with a 5-year warranty	Power (W)	Lum. total luminous flux emitted (Im)		Lum. efficacy (lm/W)		CCT (Kelvin)	CRI	Lifetime L80B10 (Ta=50°C)	Lifetime L90B10 (Ta=50°C)	A (mm)	B (mm)	Weight (kg)	EEI	Light source* (reference)
		PMMA	PC	PMMA	PC			(1a=50°C)	(1a=50°C)					(reference)
870 Philips Fortimo HV6 HF with Philips driver														
870 4ft (1200mm)	59	n.a.	8700	n.a.	147	4000	>80	>64.000 h	>50.000 h	1174	700±76	2	С	893529
870 5ft (1500mm)	70	n.a.	10400	n.a.	148	4000	>80	>64.000 h	>50.000 h	1454	1000±76	2,2	С	893525 893529
Products with a 5-year warranty	Power (W)	Lum. total luminous flux emitted (Im)		Lum. efficacy (lm/W)		CCT (Kelvin)	CRI	Lifetime L80B10 (Ta=60°C)	Lifetime L90B10 (Ta=60°C)	A (mm)	B (mm)	Weight (kg)	EEI	Light source* (reference)

## Further options:

870 4ft (1200mm)

870 5ft (1500mm)







870 Philips Fortimo HV6 HF with Philips driver

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n.a. 7400 n.a.

9500





153





145 4000 >80 >64.000 h >50.000 h 1174 700±76

4000 >80 >64.000 h >50.000 h 1454 1000±76







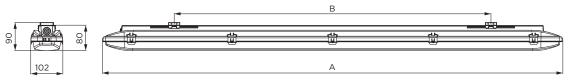


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893529 893525

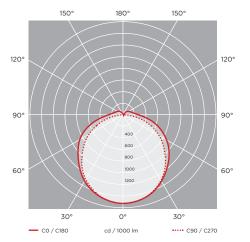
893529

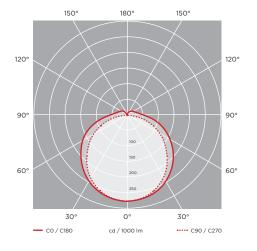
## Schematic drawing with main dimensions



### **Photometric curves:**

870-Inspire +/- 4ft 1200mm Philips Fortimo HV6 HF, 59W, 8700lm, PC 870-Inspire +/- 5ft 1500mm Philips Fortimo HV6 HF, 56W, 9500lm, PC





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

