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.



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-, the 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 endless silicone 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 userfriendly installation even without disassembling the luminaire. White powder coated steel sheet, the LED modul mounting positions according to **Zhaga** standards or customized.
- **Electrical components:** The adequate power supply is ensured through electronic driver.



CE

IP66

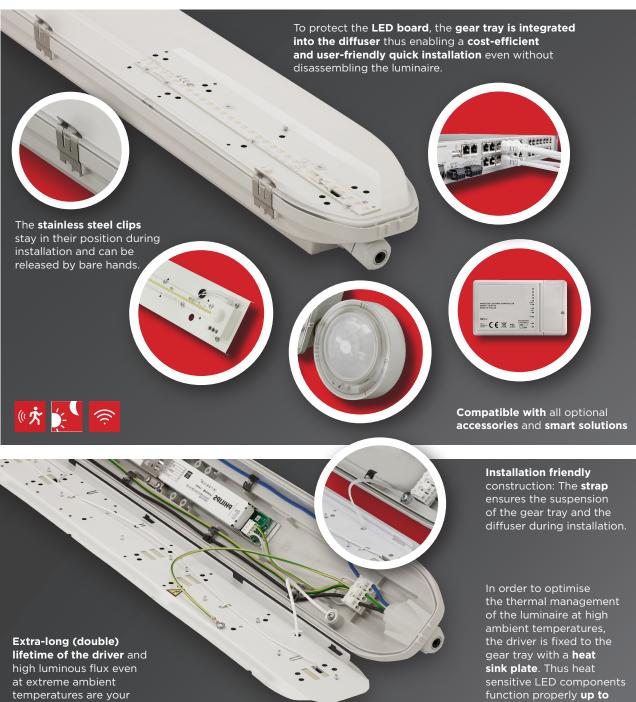




Main technical options

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 10400 Im and a maximum efficiency of 153 Im/W. For more details please see technical data.



temperatures are your

benefits.

870-INSPIRE +

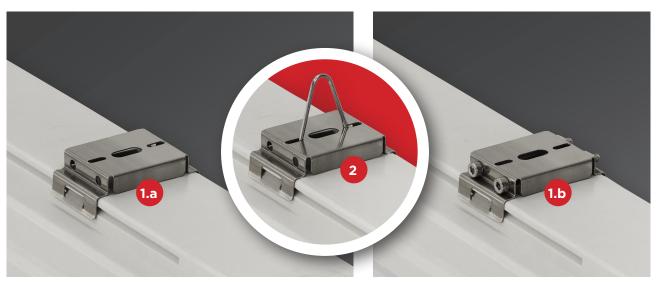
Ta +60 °C.

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The injected **silicone gasket** with enhanced resistance ensures **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).

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

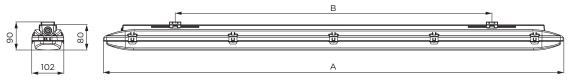


Technical data (extract)

Products with a 5-year warranty	Power (W)	Luminare total luminous flux emitted (Im) PC	Lum. efficacy (Im/W) PC	CRI	Lifetime L80B10 (Ta=50°C)	Lifetime L90B10 (Ta=50°C)	A (mm)	B (mm)	Weight (kg)	EEI
870 Philips Forti	mo HV6	with Philips driver								
870 4ft (1200mm)	59	8700	147	>80	>64.000 h	>50.000 h	1174	700+/-76	2	С
870 5ft (1500mm)	70	10400	148	>80	>64.000 h	>50.000 h	1454	1000+/-76	2,2	С
Products with a 5-year warranty	Power (W)	Luminare total luminous flux emitted (lm) PC	Lum. efficacy (Im/W) PC	CRI	Lifetime L80B10 (Ta=60°C)	Lifetime L90B10 (Ta=60°C)	A (mm)	B (mm)	Weight (kg)	EEI
870 Philips Forti	mo HV6	with Philips driver								
870 4ft (1200mm)	51	7400	145	>80	>64.000 h	>50.000 h	1174	700+/-76	2	С
870 5ft (1500mm)	56	9500	153	>80	>64.000 h	>50.000 h	1454	980+/-76	2,2	С

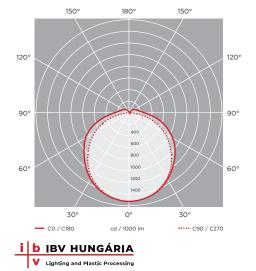


Schematic drawing with main dimensions

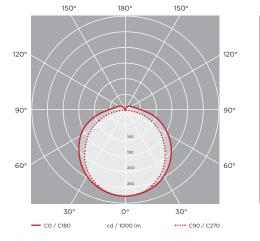


Photometric curves:

870-Inspire +/-, 4ft (1200mm), Philips Fortimo HV6 HF, 59W, 8700lm, PC



870-Inspire +/-, 5ft (1500mm), Philips Fortimo HV6 HF, 56W, 9500Im, PC



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

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