

870-INSPIRE PC

High-end dust and waterproof luminaires with LED modules.

Synergy of art and technology Inspiring design in professional quality.

CE

YOUR MAIN BENEFITS:

Gear tray integrated into the diffuser

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



IP66







Option:

















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 environments Thanks to its **enhanced impact resistance**, 870-Inspire 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 plug or 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 IKO8).

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 modul mounting positions according to Zhaga standards or customized.
- Electrical components: The adequate power supply is ensured through electronic driver.



Main technical options

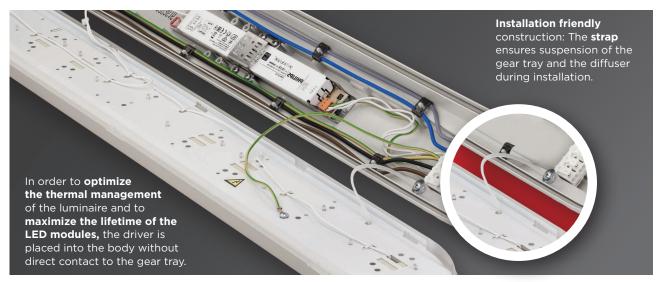
Our new opalised diffuser made of UV-stabilized material achieves an outstanding light transmissivity up to 90%. This great light permeability offers high efficacy (up to 160 lm/W) emitted from the luminaire. Feel free to choose from our two types of slightly different diffuser designs.











The gear tray, made of white powder coated steel sheet according to Zhaga standards, is integrated into the diffuser. With 870-Inspire PC - depending on customer requirements - we can reach different levels of luminous flux from 3000 up to 12900 lumen with maximum efficacy of 152 lm/W. Details see: Technical data.





The injected silicon-based 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).
- 1.b In case of vertical positioning, special screws keep the mounting brackets tight avoiding the luminaire from sliding.

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



Technical data (extract)

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

Products with 5 years warranty	Power (W)	Lum. total luminous flux emitted (Im)		Lum. efficacy (lm/W)		CCT (Kelvin)	CRI	Lifetime L70B50 (Ta=45°C)	Lifetime L80B10 (Ta=45°C)	A (mm)	B (mm)	Weight (kg)	EEI	Light source* (reference)
		PMMA	PC	PMMA	PC			(1a=45 C)	(1a=45 C)					(reference)
Lumnium EU 130 with Osram driver														
870 2ft (600mm)	24	3300	3000	137	125	4000	>80	>72 000 h**	>72 000 h**	615	300±25	0,9	D	1059419
870 4ft (1200mm)	24	3400	3150	142	131	4000	>80	>72 000 h**	>50 000 h**	1174	700±76	2	D	802364
870 5ft (1500mm)	30	4300	4000	143	133	4000	>80	>72 000 h**	>50 000 h**	1454	1000±76	2,2	D	734821
870 4ft (1200mm)	37	5200	4800	140	130	4000	>80	>72 000 h**	>50 000 h**	1174	700±76	2	D	734862
870 5ft (1500mm)	51	7000	6500	137	128	4000	>80	>72 000 h**	>50 000 h**	1454	1000±76	2,2	D	734813
Lumnium EU PRO 160 with Osram driver														
870 4ft (1200mm)	22	3450	3200	157	145	4000	>80	>72 000 h	>50 000 h	1174	700±76	2	С	803878
870 5ft (1500mm)	27	4200	3900	157	144	4000	>80	>72 000 h	>50 000 h	1454	1000±76	2,2	С	734800
870 4ft (1200mm)	32	5000	4600	158	144	4000	>80	>72 000 h	>50 000 h	1174	700±76	2	С	803933
870 5ft (1500mm)	44	7000	6500	160	146	4000	>80	>72 000 h	>50 000 h	1454	1000±76	2,2	С	734760
Lumnium EU PRO 160 with Osram DIP Switch driver														
870 4ft (1200mm)	19	3000	3000		150	4000	>80	>72 000 h	>50 000 h	1185	700±78	2	С	803933
	23	3700	3700	162										
	27	4500	4500	102										
	32	5200	5200											
870 5ft (1500mm)	25	4100	4100		152	4000	>80	>72 000 h	>50 000 h	1477	1000±78	2,2	С	734760
	32	5200	5200	163										
	38	6200	6200											
	44	7200	7200											

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

Products with 5 years warranty	Power (W)	Lum. total luminous flux emitted (Im)		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			(1a=35 C)	(1a-33 C)					(reference)
Lumnium EU PRO 140 HF with Philips driver														
870 4ft (1200mm)	61	8300	7700	136	126	4000	>80	>72 000 h	>50 000 h	1174	700±76	2	D	734708
870 5ft (1500mm)	77	10400	9600	135	125	4000	>80	>72 000 h	>50 000 h	1454	1000±76	2,2	D	734742
Philips Fortimo HV6														
870 4ft (1200mm)	60	8800	8100	146	136	4000	>80	>100 000 h	>64 000 h	1174	700±76	2	С	893529
870 5ft (1500mm)	75	11000	10100	146	134	4000	>80	>100 000 h	>64 000 h	1454	1000±76	2,2	С	893525 893529
Philips Fortimo HV6 HF 3klm/ft														
870 4ft (1200mm)	74	11300	10500	152	142	4000	>80	>100 000 h	>64 000 h	1174	700±76	2	С	893537
870 5ft (1500mm)	92	14000	12900	152	141	4000	>80	>100 000 h	>64 000 h	1454	1000±76	2,2	С	893533 893537

Further options:























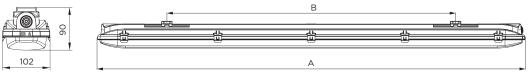






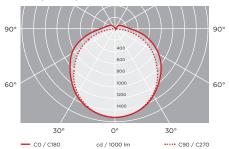


Schematic drawing with main dimensions

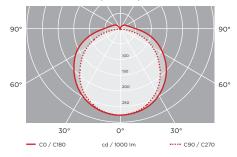


Photometric curves:

870-Inspire PC, opal PC, 4ft, Lumnium EU 130, 24W, 3150 lm



870-Inspire PC, opal PC, 5ft, Lumnium EU PRO 140 HF, 77W, 9600lm



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

