

771-ORIENT +50°C

Industrial dust and waterproof luminaires with LED modules

771-Orient is available in the following sizes: 1200mm, 1500mm. Available in IP65

YOUR MAIN BENEFITS:

A professional luminaire for wide usage, that fulfils the strongest quality requirements. Especially for applications where **high heat resistance (up to Ta +50 °C)** is required.



FIELD OF APPLICATION:

Thanks to the construction principles of the gasket, the closing system and the diffuser our fixtures ensure a high grade of protection (IP65) against dust, contamination and water permeation. In accordance with their IP grade they can be used widely to illuminate spaces with dusty and humid environment. Thanks to its **enhanced heat resistance**, 771-Orient is especially suitable for applications, where **error-free functioning at higher ambient temperature** is desired.

When using outdoors, the fittings should be protected against direct sunlight and adverse weather conditions.

TECHNICAL DESCRIPTION AND BENEFITS:

- **Housing:** It is made of flame retardant 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.
- The **diffuser** is available in injection moulded **opal polycarbonate (PC)** with extremely high light permeability and well-balanced light dispersing. Main advantages: High mechanical strength and high heat and shock resistance and excellent transparency.

The diffusers are designed with respect to their optical characteristics and are **UV resistant**.

- In order to ensure maximum heat, chemical and weather resistance even under tough conditions, the gasket between the diffuser and housing is made of **silicone-based foam** with enhanced resistance.
- **Fixing the diffuser to the body:** with highly resistant stainless steel clips
- **Gear tray (reflector):** White powder coated steel sheet according to Zhaga standards or customised.
- **Electrical components:** in accordance with the requested specification suitable for LED technology. For more details please see technical data.

LED

CE

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IP65



Option:





Main technical options

Our new opal diffuser has an **outstanding light transmissivity of more than 90%**. With this great light permeability, it is an **excellent choice for luminaires equipped with LED modules**.

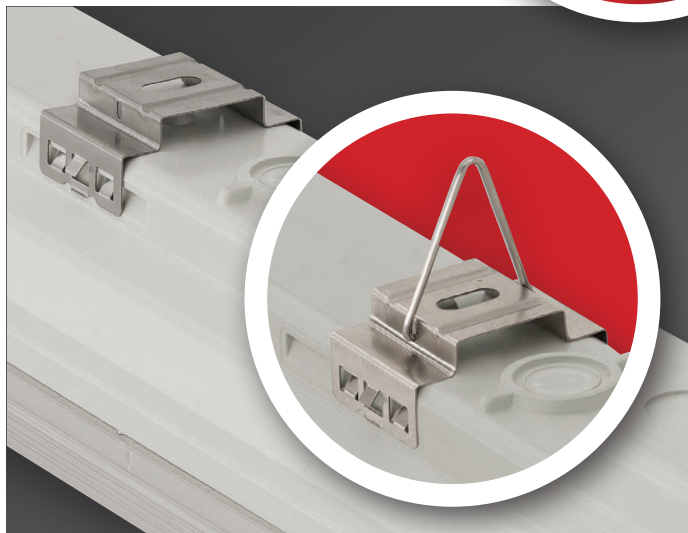


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The opal diffusers are made of UV stabilized **opalised** material, specially developed for LED applications. This ensures among others a well-balanced light distribution and the **elimination of glare**.

Fixing of the diffuser to the body: With highly resistant stainless steel clips. Optionally tamper-proof clips available on request.



Ways of installing:

1. With stainless steel suspension brackets (easy-to-install) onto the ceiling.
2. Suspension on chains with stainless steel suspension brackets mounted with hooks.

Depending on customer requirements we can reach different levels of luminous flux (lumen) and high luminous efficacy (lm/Watt) of our LED luminaires. For more details please see technical data.



The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.



Option: 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)**.

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In order to optimise the thermal management of the luminaire at high ambient temperatures, the driver is fixated to the gear tray with a heat sink plate. Thus heat sensitive LED components function properly up to $T_a +50^{\circ}\text{C}$.



In order to ensure **maximum heat**, chemical and weather **resistance** even under tough conditions, the **gasket** between the diffuser and housing is made of **silicone-based** foam with enhanced resistance.



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=+50°C)	Lifetime L90B10 (Ta=+50°C)	A (mm)	B (mm)	Weight (kg)	EEI	Light source* (reference)
		PMMA	PC	PMMA	PC									
Philips Fortimo LED Strip LV6														
771 4ft (1200mm)	25	n.a.	3 800	n.a.	152	4000	>80	>72 000 h	>41 000 h	1277	700	2,2	C	778351
771 5ft (1500mm)	31	n.a.	4 800	n.a.	154	4000	>80	>72 000 h	>41 000 h	1577	1000	2,5	C	778365
771 5ft (2x1500mm)**	39	n.a.	6 000	n.a.	153	4000	>80	>72 000 h	>41 000 h	1577	1000	2,7	C	778365
Philips Fortimo LED Strip HV6														
771 4ft (2x1200mm)**	56	n.a.	7 800	n.a.	141	4000	>80	>50 000 h	>41 000 h	1277	700	2,65	C	893529
771 5ft (2x1500mm)**	70	n.a.	9 900	n.a.	141	4000	>80	>50 000 h	>41 000 h	1577	1000	3	C	893525 893529

** The LED strips are placed in one line in a twin (wider) housing.

Other colour temperatures available on request

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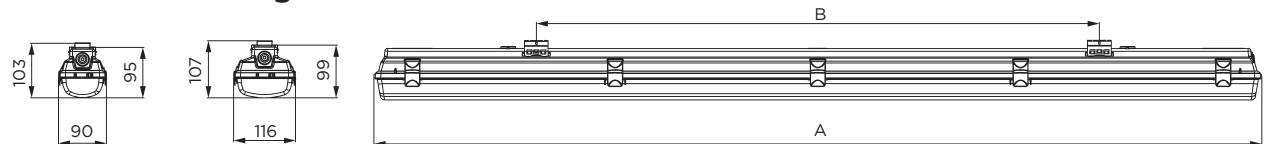
Further options:



On request:



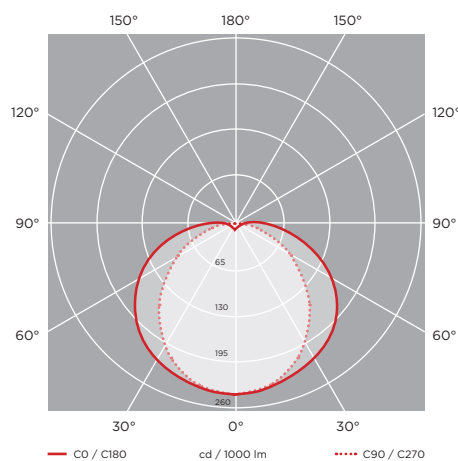
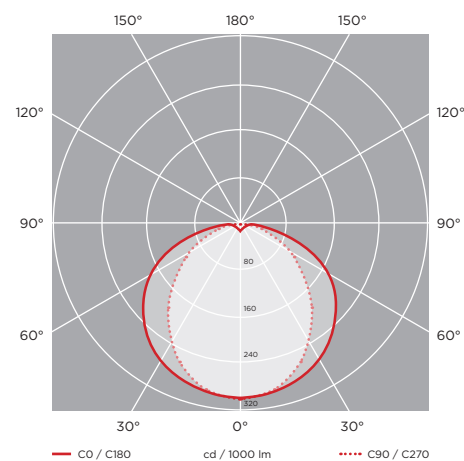
Schematic drawing with main dimensions



Photometric curves:

771-Orient +50°C 4ft 1200mm, Philips Fortimo LED Strip LV6, 25W, 3800lm, PC

771-Orient +50°C 5ft (2x1500mm), Philips Fortimo LED Strip HV6, 70W, 9900lm, PC



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