

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:

Due to the construction principles of gasket, closing system and 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. This material has very good temperature resistance, mechanical stability, furthermore it is a good electrical insulator, it resists the impacts of several chemicals and the impacts of 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 **silicon-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, details see under technical data.

LED

CE

771-ORIENT +50 °C

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**.



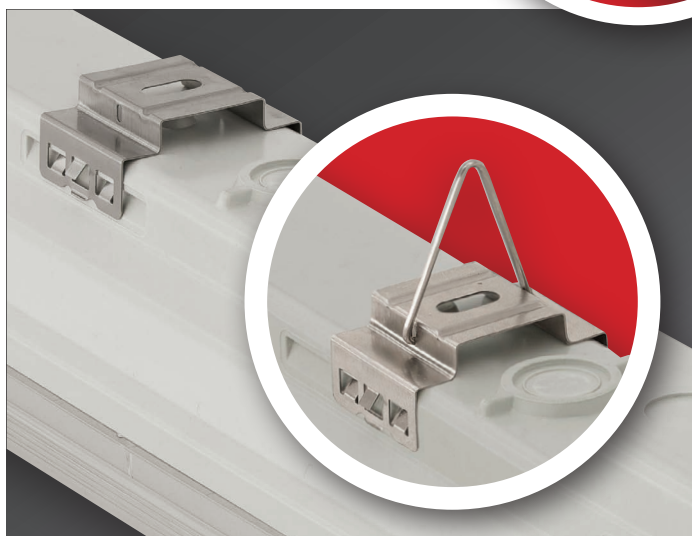
771-ORIENT +50 °C



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

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**.

Moreover the diffuser made of injection moulded polycarbonate (PC) excels at highest **impact resistance of IK10**.



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. Details see attached overview.



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)**.



771-ORIENT +50 °C



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 **silicon-based** foam with enhanced resistance.

Technical data (extract)

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

Products with 5 years warranty	Power (W)	Lum. total luminous flux emitted (lm)		Lum. efficacy (lm/W)		CCT (Kelvin)	CRI	Lifetime L70B50 (Ta=+50°C)	Lifetime L80B10 (Ta=+50°C)	A (mm)	B (mm)	Weight (kg)	EEI	Light source* (reference)
		PMMA	PC	PMMA	PC									

Philips Fortimo LED Strip LV

771 4ft (1200mm)	26	n.a.	3 400	n.a.	132	4000	>80	>70 000 h	>50 000 h	1277	700	2,2	C	778351
771 5ft (1500mm)	31	n.a.	4 200	n.a.	135	4000	>80	>70 000 h	>50 000 h	1577	1000	2,5	C	778365
771 5ft (2x1500mm)**	39	n.a.	5 200	n.a.	134	4000	>80	>70 000 h	>50 000 h	1577	1000	2,7	C	778365

Philips Fortimo LED Strip HV6

771 4ft (2x1200mm)**	59	n.a.	8 100	n.a.	137	4000	>80	>50 000 h	>50 000 h	1277	700	2,65	C	893529
771 5ft (2x1500mm)**	70	n.a.	9 900	n.a.	141	4000	>80	>50 000 h	>50 000 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

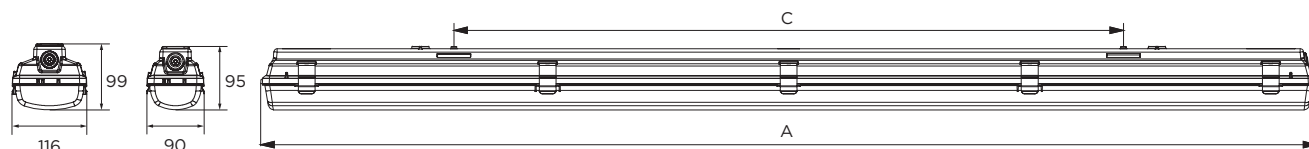
Further options:



On request:

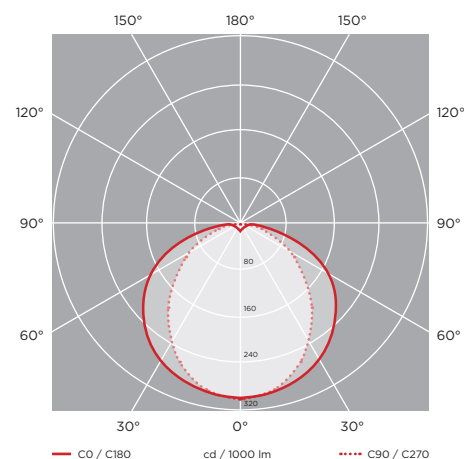


Schematic drawing with main dimensions

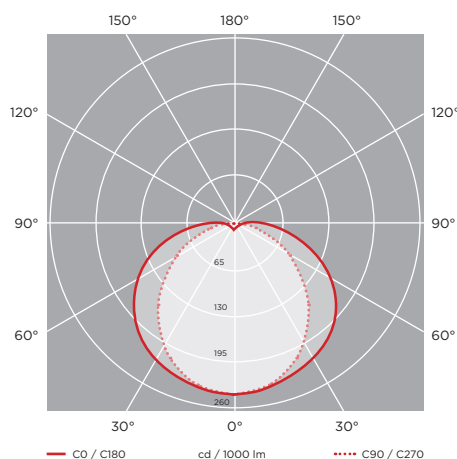


Photometric curves:

771-Orient +50°C 4ft 1200mm, Philips Fortimo LED Strip LV5, 26W, 3400lm, 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