771-ORIENT LED

Industrial dust- and waterproof luminaires

ELMAT elektromaterijal
Šavnička 11, 11030 Beograd 8

YOUR MAIN BENEFITS:

A professional luminaire for wide usage, that fulfills the strongest quality requirements.
Especially for applications, where **high heat resistance (up to Ta +50 °C)** is required. Available in IP 65

FIELD OF APPLICATION:

Due to the construction principles of gasket, closing system and diffuser our fixtures ensure a high grade of protection (IP 65) against dust, contamination and water permeation. In accordance with their IP grade they can be used widely to illuminate spaces with dusty, humid environment. Thanks to its **enhanced heat resistance**, 771-Orient LED 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. Non-aging PU (polyurethane) foam is optionally available.
- **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.

IP65

Option:

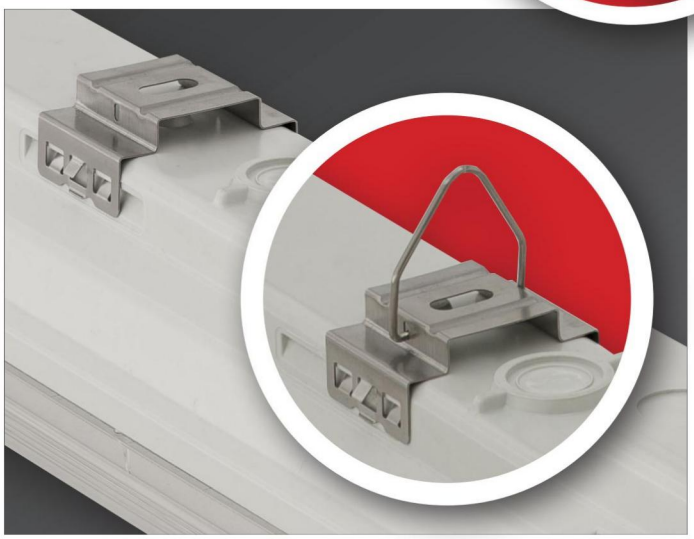
PC 850°C

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**.

The opal diffusers are made of UV-stabilized **opalized** material, specially developed for LED applications. This ensures among others a well-balanced light distribution and the **elimination of glaring**.
Moreover the diffuser made of injection moulded polycarbonate (PC) excels at highest **impact resistance of IK 10.**

Fixing of the diffuser to the body: With highly resistant stainless steel clips. Optionally "anti-vandal" 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. Details see attached overview.

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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).

In order to optimize the thermal management of the luminaire at high ambient temperatures, the driver is fixated to the bottom of the body with a **heat sink** plate. Thus heat sensitive LED components function properly up to Ta +50°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

Type	Power (W)	LED luminous flux (lm)	luminaire total luminous flux (lm)	luminous efficacy (lm/W)	colour temp (Kelvin)	CRI	lifetime L80B10 (Ta=50°C)
Philips Fortimo LED Strip LV3							
Orient LED 1x1200mm	23	3400	3100	134	4000	>80	>50.000 h
Orient LED 1x1200mm	25	3700	3400	136	4000	>80	>50.000 h
Orient LED 1x1500mm	29	4200	3800	131	4000	>80	>50.000 h
Orient LED 1x1500mm	31	4500	4100	132	4000	>80	>40.000 h

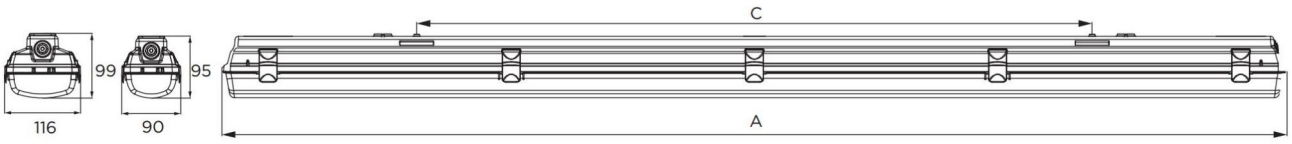
Ø 26 G 13

Ø 16 G 5

EVG

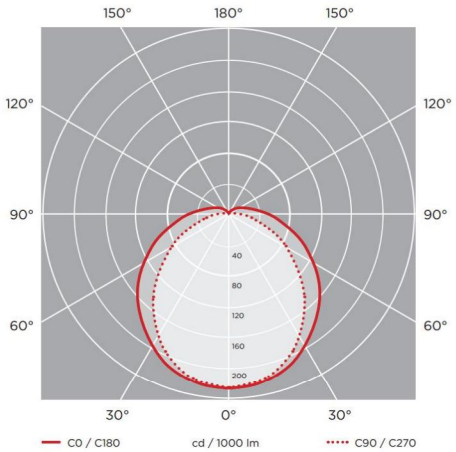
EVG DIMM

Schematic drawing with main dimensions

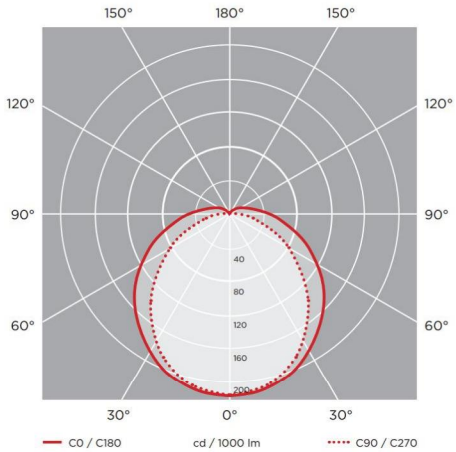


Photometric curves:

771-Orient LED 25 W (Fortimo)



771-Orient LED 31 W (Fortimo)



Further options:
- protection class II
- halogen-free wiring

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