# ATOM 771 LED
## Industrial dust- and waterproof luminaires with LED-modules

### Now with a new, opalized diffuser with unique light transmissivity!
### Specially developed for LED applications

CE

EK 11

**NEW**

IP65

Option:

IP66

IP67

PC
850°C

### FIELD OF APPLICATION:

Thanks to the construction principles of gasket, closing system and diffuser our LED fixtures ensure a high grade of protection (IP 65, IP 66 or IP 67) against dust, contamination and water permeation. In accordance with their IP grade they can be widely used to illuminate spaces with dusty, humid environment.

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

### TECHNICAL DESCRIPTION AND BENEFITS:

■ **Diffuser:** Our LED-luminaires with **opal** diffuser offer you:
  - **extremely high light efficiency** through high **light permeability, unique on the market,** (up to 93% light transmissivity)
  - an **excellent light uniformity** through **well-balanced light dispersing** (no shadows)
  - **elimination of the dazzling effect** (no glaring)
  - **aesthetical appearance (no dots** of the single LEDs)
  - **keeping the usual, well known features of the diffuser** such as chemical and heat resistance, mechanical features, **UV-stabilization** etc.

  **Available in PC** - injection moulded **Polycarbonate** (high mechanical strength and high heat and shock resistance) **or in Acrylic** - injection moulded **PMMA** (unique non-aging properties, high chemical resistance).

■ **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. Glass-fibre reinforced polyester 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 **gasket** between the diffuser and housing is made of non-aging **PU (polyurethane)** foam.
  In order to ensure **maximum** chemical and weather **resistance** even under tough conditions, **silicon-based gasket** with enhanced resistance is optionally available.

■ **Fixing the diffuser to the body:** with highly resistant polyamide clips or with stainless steel clips. Anti-vandal stainless steel clips available on request.

■ **Gear tray** (reflector): White powder coated steel sheet according to Zhaga standards or customized.

■ **Electrical components:** The adequate power supply is ensured through electronic driver, that is built into the luminaire.

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# Technical options

Our new opal diffuser has an **outstanding light transmissivity** up to **93%**. With this great light permeability, it is an **excellent choice for luminaires equipped with LED-modules**.

## Unique
on the market

Usual stainless steel clips for **SELV** (Safety Extra Low Voltage) solutions.

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**.

The special "antivandal" stainless steel clips for **non-SELV (HV)** solutions can be released with an additional tool only.

With ATOM 771 LED - depending on customer requirements - we can reach different levels of luminous flux (lumen) as well as luminous efficacy (lm/Watt). Details see attached overview.

In order to optimize the thermal management of the luminaire we avoid the direct contact of the gear tray and driver, thus increasing the lifetime of the modules and driver.

LED-Version with motion sensor
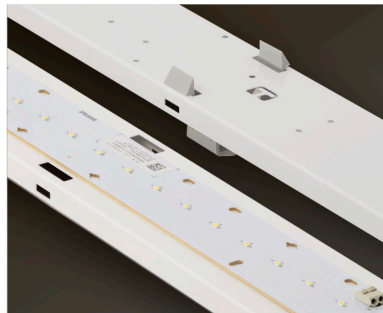
The gear tray is made of white powder coated steel sheet according to **Zhaga** standards. On request customisation possible.

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).

DIMM

3F

EMERGENCY

LED
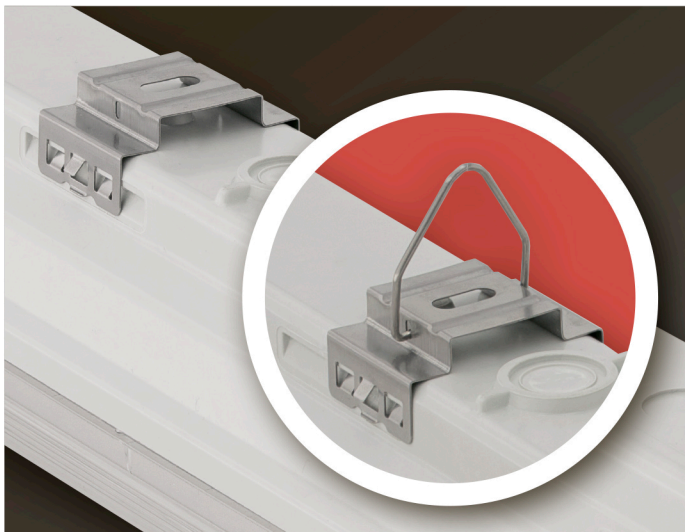
Ways of installing:
1. With stainless steel suspension brackets (easy-to-install) onto the ceiling.
2. Suspension on chains with stainless steel suspension brackets mounted with hooks.
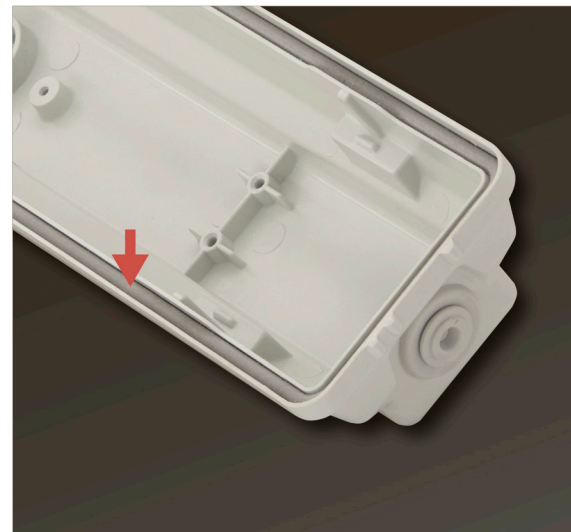
In order to ensure maximum chemical and weather resistance, silicon-based gasket with enhanced resistance is optionally available.
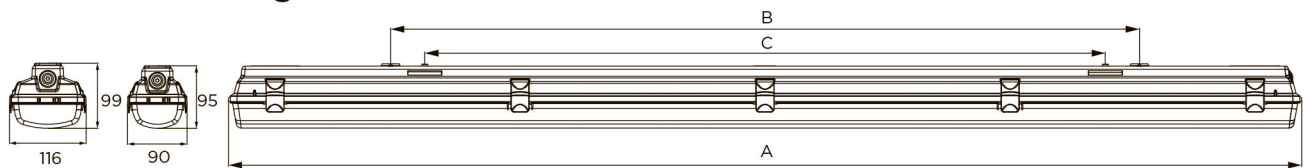
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# Technical Data

| Type | Power (W) | LED luminous flux (lm) | luminaire total luminous flux (lm) | luminous efficacy (lm/w) | colour temp (Kelvin) | CRI | lifetime L70B50@Ta=35°C |
|---|---|---|---|---|---|---|---|
| **Philips Fortimo LED Strip LV3** | | | | | | | |
| 771 1x600 mm | 16 | 2200 | 1930 | 118 | 4000 | >80 | >50.000 h |
| 771 1x1200mm | 30 | 4400 | 4050 | 128 | 4000 | >80 | >50.000 h |
| 771 1x1500mm | 39 | 5500 | 4850 | 124 | 4000 | >80 | >50.000 h |
| 771 2x1500mm* | 50 | 6600 | 6100 | 123 | 4000 | >80 | >50.000 h |
| **Philips Fortimo LED Line HV2** | | | | | | | |
| 771 2x1200mm* | 54 | 8000 | 7400 | 137 | 4000 | >80 | >50.000 h |
| 771 2x1500mm* | 66,5 | 10000 | 9180 | 138 | 4000 | >80 | >50.000 h |
| **Osram PrevaLED Slim 2** | | | | | | | |
| 771 1x600 mm | 17,5 | 2100 | 1950 | 113 | 4000 | >80 | >50.000 h |
| 771 1x1200mm | 36 | 4200 | 3850 | 108 | 4000 | >80 | >50.000 h |
| 771 1x1500mm | 40 | 4800 | 4400 | 110 | 4000 | >80 | >50.000 h |
| **Osram PrevaLED Value 2** | | | | | | | |
| 771 1x600 mm | 22 | 2600 | 2400 | 108 | 4000 | >80 | 50.000 h |
| 771 1x1200mm | 39 | 4800 | 4500 | 115 | 4000 | >80 | 50.000 h |
| 771 1x1500mm | 45 | 5700 | 5250 | 116 | 4000 | >80 | 50.000 h |
| 771 2x1500mm* | 52 | 6700 | 6200 | 120 | 4000 | >80 | 50.000 h |
| **Philips Certaflux HV2** | | | | | | | |
| 771 1x1200mm | 28 | 3400 | 2880 | 104 | 4000 | >80 | >30.000 h |
| 771 1x1500mm | 37 | 4130 | 3800 | 104 | 4000 | >80 | >30.000 h |

* The LED strips are placed in one line in a twin (wider) housing.
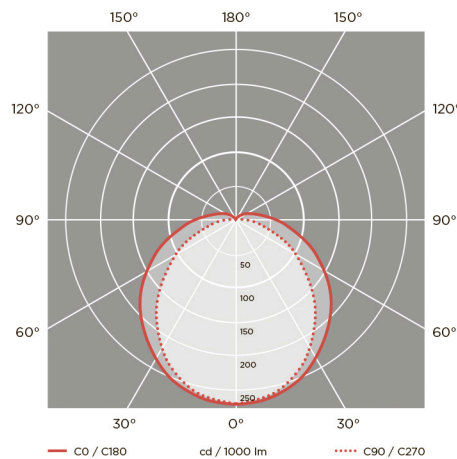
## Schematic drawing with main dimensions



## Photometric curves:

### ATOM 771 LED 39W



— C0 / C180    cd / 1000 lm    ····· C90 / C270

### ATOM 771 LED 32W



— C0 / C180    cd / 1000 lm    ····· C90 / C270
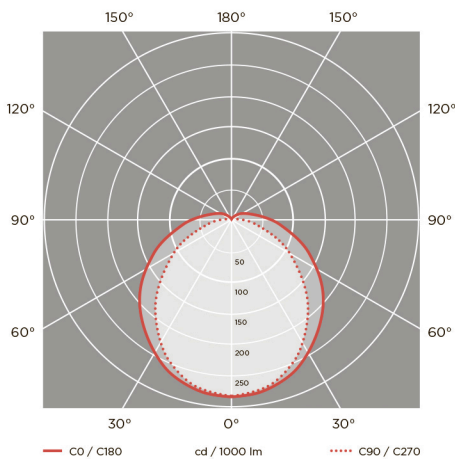
**Further options:**
- emergency kit
- through wiring
- dimmable driver
- IP 66
- protection class II
- halogen-free wiring
- motion sensor