



TECHNICAL DATA

|                             |                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Application                 | urban roads, residential roads (internal), parkings, pedestrian crossings                                                        |
| Assembly                    | on extension arms, columns with extension arms with ø 60 x 50 mm ending                                                          |
| Colour                      | black                                                                                                                            |
| Ingress protection          | IP 66                                                                                                                            |
| Optical system              | PMMA optics, interchangeable LED module                                                                                          |
| Material                    | body and cap – anodised aluminium formed sheet metal                                                                             |
| Unit volume                 | -                                                                                                                                |
| Operating temperature range | from -40°C to +40°C                                                                                                              |
| Expected useful lifetime    | L90B10 - 100 000 h                                                                                                               |
| CRI                         | >70                                                                                                                              |
| Inrush current              | 77 A / 150 µs                                                                                                                    |
| Input voltage frequency     | 50/60Hz                                                                                                                          |
| Power factor                | ≥0.95                                                                                                                            |
| Number of LED               | 48                                                                                                                               |
| Control system              | Luminaire has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1- 10V). |

| Code           | Symbol        | LED power | Luminaire power consumption | LED forward current | Colour temperature (CCT) | LEDs luminous flux¹ | Luminaire luminous flux¹ | Luminous efficacy¹ | Net weight |
|----------------|---------------|-----------|-----------------------------|---------------------|--------------------------|---------------------|--------------------------|--------------------|------------|
| 2109139/4/...² | OW II LED 120 | 120 W     | 129 W                       | 830 mA              | 4000 K                   | 20750 lm            | 18100 lm                 | 140 lm/W           | 14.5 kg    |

1) tolerance +/- 5% due to LEDs accuracy  
2) symbol of chosen optical system eg. 2109137/1/T2 is OW II LED 96 2 700 K with T2 optical system

DIRECTIVES AND STANDARDS

**DIRECTIVES:** 2014/35/UE (Official Journal of the UE L 96/357 29.03.2014), 2014/30/UE (Official Journal of the UE L 96/79 29.03.2014), 2011/65/UE RoHS (Official Journal of the UE L 174/88 01.07.2011), 2009/125/EC(Official Journal of the UE L 285/10 31.10.2009)  
**STANDARDS:** PN-EN IEC 60598-1: 2021-7, PN-EN 60598-2-3: 2006, PN-EN 60529: 2003, PN-EN 62262: 2003, PN-EN 62471:2010, PN-EN 55015: 2019, PN-EN 61547: 2009, PN-EN 61000-3-2: 2019 , PN-EN 61000-3-3: 2014

Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

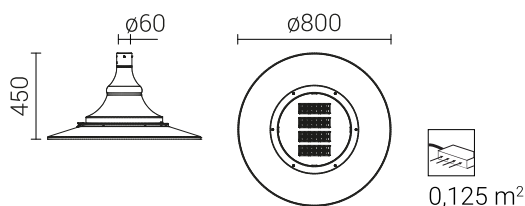
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:  
- functional grounding  
- LED luminaire with an additional protection device

# OW II LED 120



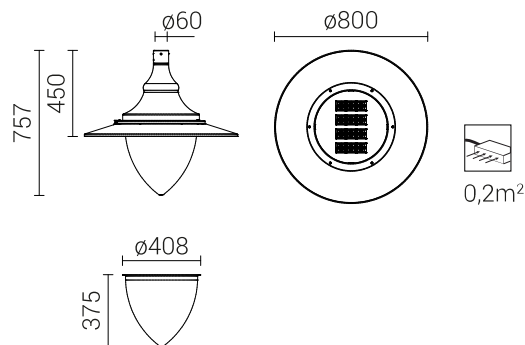
## TECHNICAL DRAWING

### OW II LED

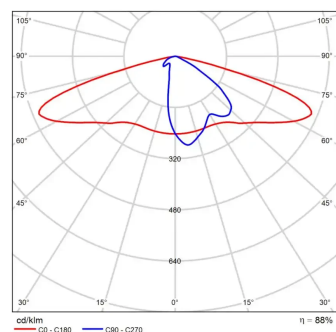


### OPTIONAL VERSION

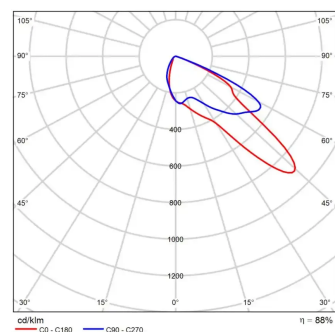
### OW II LED WITH DIFFUSER



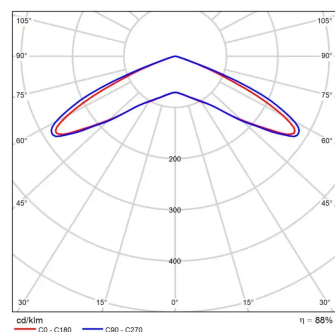
SP



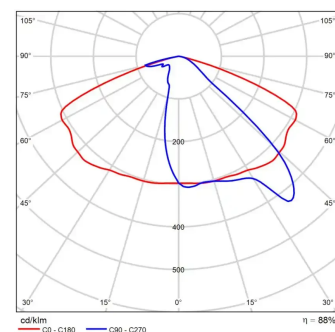
PP



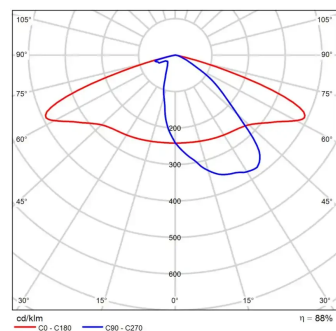
VS



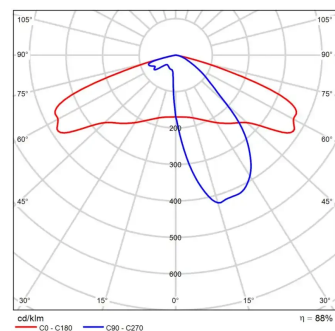
ME



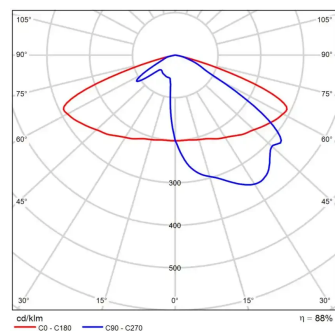
DW



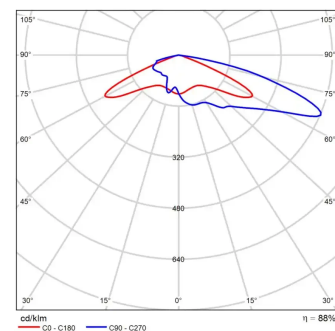
T2



T3



T4



## POWER SYSTEM FUNCTIONS

### Luminaire in standard has following functions of intelligent power supply:

- Connection to outside control system by DALI interface (operation of analog signal 1-10V as an option),
- Possibility of programming multistage dimming of luminaire, up to 5 intervals in the range of from 10 to 100% of nominal power,
- LED module equipped with thermal protection implemented via an NTC thermistor,
- Regulation of power / luminous flux – the option of setting another value than the catalogue in the range of 30-100% of nominal one,

# OW II LED 120



## ACCETABLE QUANTITY OF LUMINAIRES ON ONE CIRCUIT

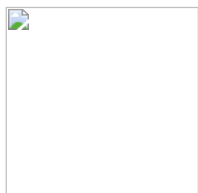
Overcurrent switches MCB type B or C

| Luminaire             | Typ | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|-----------------------|-----|----|----|----|-----|-----|-----|-----|
| OW LED<br>24, 36W     | B   | 2  | 5  | 10 | 16  | 26  | 32  | 40  |
|                       | C   | 2  | 10 | 15 | 27  | 44  | 54  | 67  |
| OW LED<br>48, 60, 72W | B   | 1  | 2  | 4  | 6   | 11  | 13  | 17  |
|                       | C   | 1  | 4  | 6  | 11  | 18  | 28  | 28  |

Fuse – type gG and GL

| Luminaire             | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|-----------------------|----|----|----|-----|-----|-----|-----|
| OW LED<br>24, 36W     | 4  | 9  | 14 | 25  | 39  | 50  | 62  |
| OW LED<br>48, 60, 72W | 1  | 2  | 11 | 19  | 30  | 38  | 47  |

## OW II LED LUMINAIRE DIFFUSER



| Code          | Name                                                          |
|---------------|---------------------------------------------------------------|
| <b>691993</b> | Transparent diffuser (PMMA), dedicated to OW II LED luminaire |

| Unit volume         | Weight |
|---------------------|--------|
| 0,075m <sup>3</sup> | 1,5kg  |