



## TECHNICAL DATA

|                                    |                                                                                                                                  |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>Application</b>                 | urban roads, residential roads (internal), parks, pedestrians, parkings                                                          |
| <b>Assembly</b>                    | on extension arms, wall brackets, columns with extension arms with $\varnothing 42 \times 40$ mm ending                          |
| <b>Colour</b>                      | black                                                                                                                            |
| <b>Ingress protection</b>          | IP 66                                                                                                                            |
| <b>Material</b>                    | body and cap – anodised aluminium formed sheet metal                                                                             |
| <b>Unit volume</b>                 | -                                                                                                                                |
| <b>Operating temperature range</b> | from -40°C to +55°C                                                                                                              |
| <b>Expected useful lifetime</b>    | L90B10 - 100 000 h                                                                                                               |
| <b>CRI</b>                         | >70                                                                                                                              |
| <b>Inrush current</b>              | 21 A / 225 $\mu$ s (OW LED 24 - 36)<br>43A / 260 $\mu$ s (OW LED 48 - 72)                                                        |
| <b>Input voltage frequency</b>     | 50/60Hz                                                                                                                          |
| <b>Power factor</b>                | $\geq 0.95$                                                                                                                      |
| <b>Number of LED</b>               | 24                                                                                                                               |
| <b>Control system</b>              | 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 flux <sup>1</sup> | Luminaire luminous flux <sup>1</sup> | Luminous efficacy <sup>1</sup> | Net weight |
|----------------------------|-----------|-----------|-----------------------------|---------------------|--------------------------|---------------------------------|--------------------------------------|--------------------------------|------------|
| 2109034/4/... <sup>2</sup> | OW LED 60 | 60 W      | 67 W                        | 830 mA              | 4000 K                   | 10450 lm                        | 9150 lm                              | 137 lm/W                       | 5.1 kg     |

1) tolerance +/- 5% due to LEDs accuracy

2) symbol of chosen optical system eg. 2109033/6/T2 is OW LED 48 5000K 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

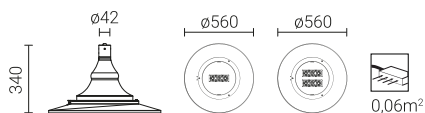
## REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

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

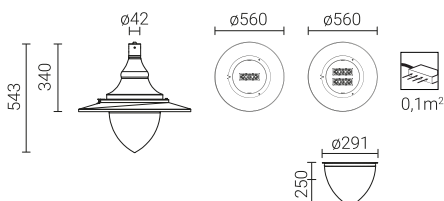
## TECHNICAL DRAWING

### OW LED

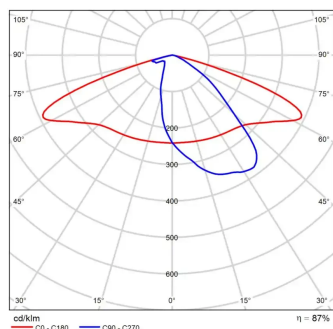


### OPTIONAL VERSION

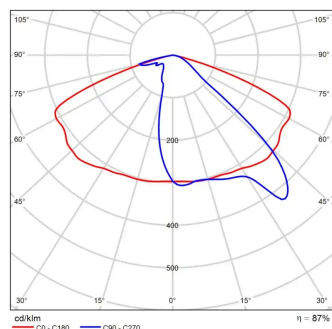
### OW LED WITH DIFFUSER



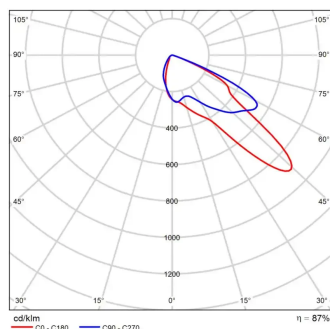
DW



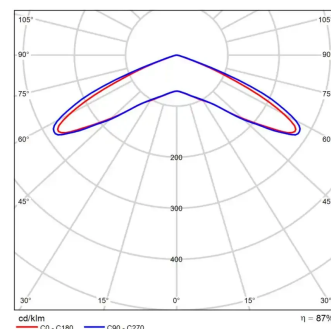
ME



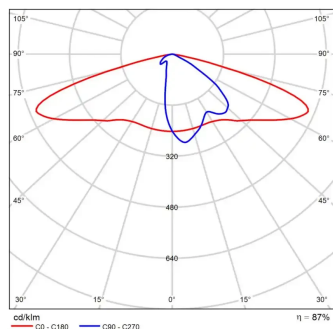
PP



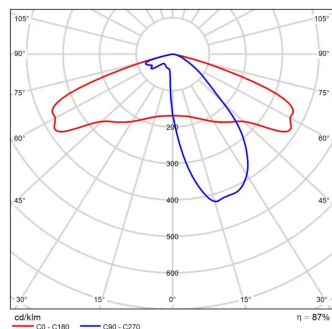
VS



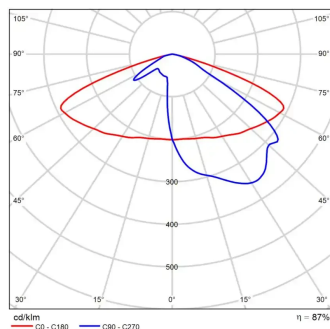
SP



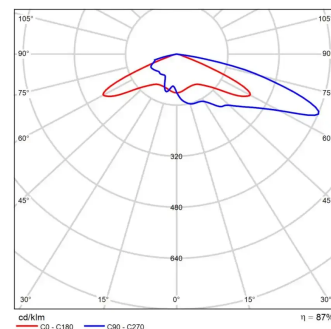
T2



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,

## ACCETABLE QUANTITY OF LUMINAIRES ON ONE CIRCUIT

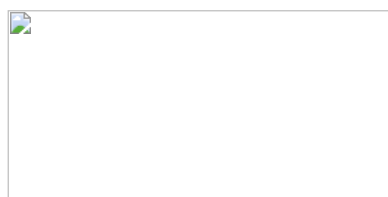
Overcurrent switches MCB type B or C

| Luminaire             | Typ | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|-----------------------|-----|----|----|----|-----|-----|-----|-----|
| OW LED<br>24, 36W     | B   | 3  | 6  | 10 | 16  | 26  | 32  | 40  |
|                       | C   | 3  | 10 | 16 | 27  | 44  | 54  | 67  |
| OW LED<br>48, 60, 72W | B   | 1  | 2  | 4  | 6   | 11  | 12  | 15  |
|                       | C   | 1  | 4  | 6  | 10  | 17  | 20  | 26  |

Fuse – type gG and GL

| Luminaire             | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|-----------------------|----|----|----|-----|-----|-----|-----|
| OW LED<br>24, 36W     | 1  | 10 | 19 | 25  | 50  | 68  | 97  |
| OW LED<br>48, 60, 72W | 0  | 4  | 8  | 11  | 22  | 31  | 44  |

## OW LED LUMINAIRE DIFFUSER



| Code          | Name                                             |
|---------------|--------------------------------------------------|
| <b>690893</b> | Transparent diffuser (PMMA) for OW LED luminaire |
| <b>690898</b> | Frosted diffuser (PMMA) for OW LED luminaire     |

| Unit volume        | Weight |
|--------------------|--------|
| 0,02m <sup>3</sup> | 0,55kg |
| 0,02m <sup>3</sup> | 0,55kg |