

## TECHNICAL DATA

|                             |                                                                                                                                  |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Assembly                    | on extension arms, wall brackets, columns with extension arms with ø 42 x 40 mm ending                                           |
| Application                 | urban roads, residential roads (internal), parks, pedestrians, parkings                                                          |
| Colour                      | black                                                                                                                            |
| Ingress protection          | IP 66                                                                                                                            |
| Optical system              | PMMA optics, interchangeable LED module, tempered glass diffuser                                                                 |
| Material                    | body and cap – anodised aluminium formed sheet metal                                                                             |
| Unit volume                 | 0,16 m³                                                                                                                          |
| Operating temperature range | from -40°C to +40°C                                                                                                              |
| Expected useful lifetime    | L90B10 - 100 000 h                                                                                                               |
| CRI                         | >70                                                                                                                              |
| Inrush current              | 43 A / 260 µs                                                                                                                    |
| Input voltage frequency     | 50/60Hz                                                                                                                          |
| Power factor                | ≥0.95                                                                                                                            |
| Number of LED               | 24                                                                                                                               |
| Control system              | Luminaire has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1- 10V). |



## TABLE OF VARIANTS

| 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 |
|----------------------------|------------|-----------|-----------------------------|---------------------|--------------------------|---------------------------------|--------------------------------------|--------------------------------|------------|
| 2108030/1/... <sup>2</sup> | OW+ LED 24 | 24 W      | 28 W                        | 350 mA              | 2700 K                   | 4450 lm                         | 3650 lm                              | 130 lm/W                       | 7.6 kg     |
| 2108030/3/... <sup>2</sup> | OW+ LED 24 | 24 W      | 28 W                        | 350 mA              | 3500 K                   | 4700 lm                         | 3850 lm                              | 138 lm/W                       | 7.6 kg     |
| 2108030/4/... <sup>2</sup> | OW+ LED 24 | 24 W      | 28 W                        | 350 mA              | 4000 K                   | 5000 lm                         | 4050 lm                              | 145 lm/W                       | 7.6 kg     |
| 2108030/6/... <sup>2</sup> | OW+ LED 24 | 24 W      | 28 W                        | 350 mA              | 5000 K                   | 5000 lm                         | 4050 lm                              | 145 lm/W                       | 7.6 kg     |
| 2108032/1/... <sup>2</sup> | OW+ LED 36 | 36 W      | 40 W                        | 500 mA              | 2700 K                   | 6100 lm                         | 4950 lm                              | 124 lm/W                       | 7.6 kg     |
| 2108032/3/... <sup>2</sup> | OW+ LED 36 | 36 W      | 40 W                        | 500 mA              | 3500 K                   | 6450 lm                         | 5250 lm                              | 131 lm/W                       | 7.6 kg     |
| 2108032/4/... <sup>2</sup> | OW+ LED 36 | 36 W      | 40 W                        | 500 mA              | 4000 K                   | 6850 lm                         | 5600 lm                              | 140 lm/W                       | 7.6 kg     |
| 2108032/6/... <sup>2</sup> | OW+ LED 36 | 36 W      | 40 W                        | 500 mA              | 5000 K                   | 6850 lm                         | 5600 lm                              | 140 lm/W                       | 7.6 kg     |
| 2108033/1/... <sup>2</sup> | OW+ LED 48 | 48 W      | 55 W                        | 700 mA              | 2700 K                   | 8150 lm                         | 6650 lm                              | 121 lm/W                       | 7.6 kg     |
| 2108033/3/... <sup>2</sup> | OW+ LED 48 | 48 W      | 55 W                        | 700 mA              | 3500 K                   | 8650 lm                         | 7050 lm                              | 128 lm/W                       | 7.6 kg     |
| 2108033/4/... <sup>2</sup> | OW+ LED 48 | 48 W      | 55 W                        | 700 mA              | 4000 K                   | 9150 lm                         | 7450 lm                              | 135 lm/W                       | 7.6 kg     |
| 2108033/6/... <sup>2</sup> | OW+ LED 48 | 48 W      | 55 W                        | 700 mA              | 5000 K                   | 9150 lm                         | 7450 lm                              | 135 lm/W                       | 7.6 kg     |
| 2108034/1/... <sup>2</sup> | OW+ LED 60 | 60 W      | 67 W                        | 830 mA              | 2700 K                   | 9300 lm                         | 7550 lm                              | 113 lm/W                       | 7.6 kg     |
| 2108034/3/... <sup>2</sup> | OW+ LED 60 | 60 W      | 67 W                        | 830 mA              | 3500 K                   | 9850 lm                         | 8000 lm                              | 119 lm/W                       | 7.6 kg     |
| 2108034/4/... <sup>2</sup> | OW+ LED 60 | 60 W      | 67 W                        | 830 mA              | 4000 K                   | 10450 lm                        | 8500 lm                              | 127 lm/W                       | 7.6 kg     |
| 2108034/6/... <sup>2</sup> | OW+ LED 60 | 60 W      | 67 W                        | 830 mA              | 5000 K                   | 10450 lm                        | 8500 lm                              | 127 lm/W                       | 7.6 kg     |
| 2108035/1/... <sup>2</sup> | OW+ LED 72 | 72 W      | 79 W                        | 1000 mA             | 2700 K                   | 10700 lm                        | 8700 lm                              | 110 lm/W                       | 7.6 kg     |
| 2108035/3/... <sup>2</sup> | OW+ LED 72 | 72 W      | 79 W                        | 1000 mA             | 3500 K                   | 11350 lm                        | 9250 lm                              | 117 lm/W                       | 7.6 kg     |
| 2108035/4/... <sup>2</sup> | OW+ LED 72 | 72 W      | 79 W                        | 1000 mA             | 4000 K                   | 12100 lm                        | 9850 lm                              | 125 lm/W                       | 7.6 kg     |
| 2108035/6/... <sup>2</sup> | OW+ LED 72 | 72 W      | 79 W                        | 1000 mA             | 5000 K                   | 12100 lm                        | 9850 lm                              | 125 lm/W                       | 7.6 kg     |

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

2) symbol of chosen optical system eg. 2108033/6/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, PN-EN 62722-2-1 (tq=25°C)

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

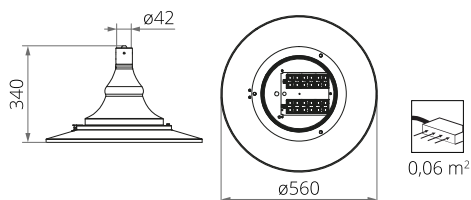
## REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

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:

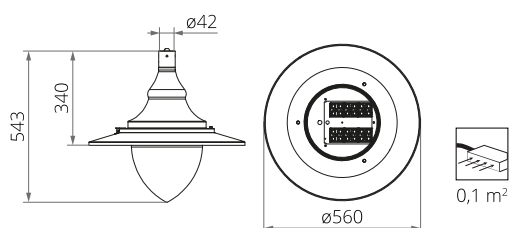
- functional grounding
- LED luminaire with an additional protection device

## TECHNICAL DRAWING

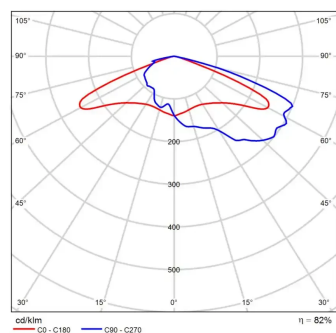
OW+ LED



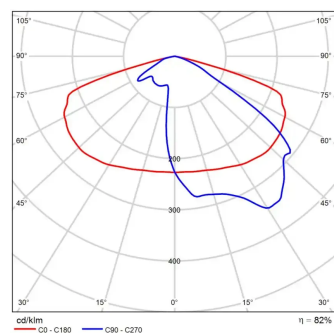
OPTIONAL VERSION  
OW+ LED WITH DIFFUSER



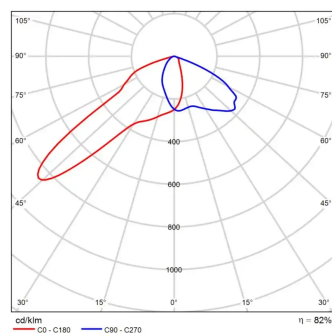
T4



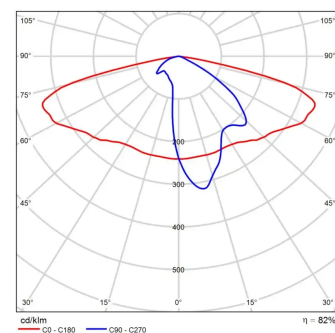
T3



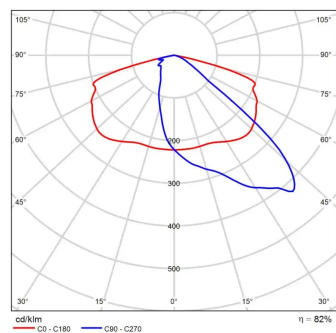
T2



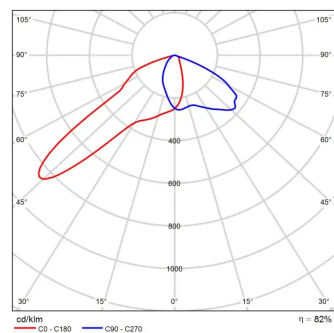
DW



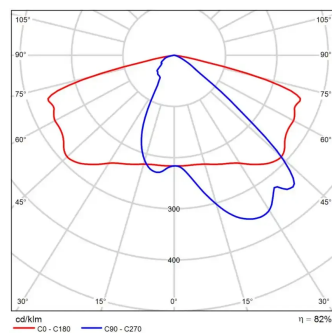
ME



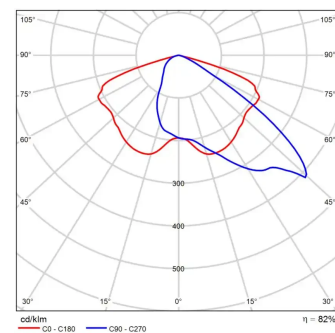
PL



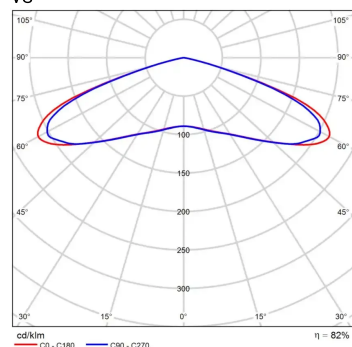
LM



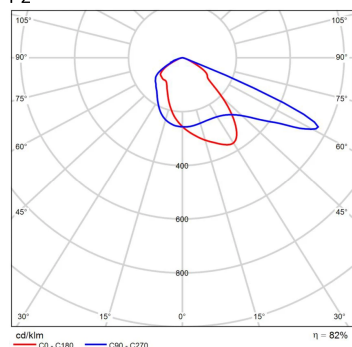
LW



VS



P2



## POWER SYSTEM FUNCTIONS

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

- 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   | B   | 5  | 10 | 16 | 16  | 42  | 52  | 65  |
|           | C   | 5  | 17 | 16 | 26  | 71  | 87  | 109 |

### Fuse – type gG and GL

| Luminaire | 2A      | 4A | 6A | 10A | 16A | 20A | 25A |    |
|-----------|---------|----|----|-----|-----|-----|-----|----|
| OW+ LED   | OW+ LED | 0  | 3  | 7   | 9   | 18  | 25  | 36 |

## CHROMATICITY

| Chromaticity | x      | y      |
|--------------|--------|--------|
| 2700K        | 0,4582 | 0,4099 |
| 3500K        | 0,4080 | 0,3916 |
| 4000K        | 0,3825 | 0,3798 |
| 5000K        | 0,3451 | 0,3554 |

## PHOTOMETRIC CODE

|       |         |
|-------|---------|
| 2700K | 727/559 |
| 3500K | 735/559 |
| 4000K | 740/559 |
| 5000K | 750/559 |

### OW LED LUMINAIRE DIFFUSER



| Code          | Name                                             | Unit volume        | Weight |
|---------------|--------------------------------------------------|--------------------|--------|
| <b>690893</b> | Transparent diffuser (PMMA) for OW LED luminaire | 0,02m <sup>3</sup> | 0,55kg |
| <b>690898</b> | Frosted diffuser (PMMA) for OW LED luminaire     | 0,02m <sup>3</sup> | 0,55kg |