

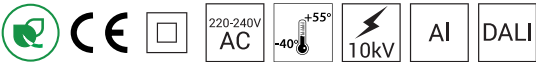
# VZOR VZHLEDU HISTORICKÉHO SVÍTIDLA

(tento vzhled je schválený NPU, ÚOP v Lokti)



- Application:** urban roads, residential roads (internal), parks, pedestrians, parkings
- Assembly:** on extension arms, wall brackets, columns with extension arms with ø42 x 40 mm ending
- Ingress protection:** IP 66
- Material:** body and cap – anodised aluminium formed sheet metal
- Colour:** black
- Optical system:** PMMA optics, interchangeable LED module
- Number of LEDs:** 24 for 48W, 60W, 72W; 12 for 24W, 36W
- Operating temperature range:** from -40°C to +55°C
- Expected useful lifetime:** L90F10 – 50 000 h, L80F20 – 100 000 h
- CRI:** >70 for 5000K, 4000K; >80 for 3500K, 2700K
- Input voltage frequency:** 50/60Hz
- Power factor:** ≥0.95
- Inrush current:** : 43A / 260µs for 48W, 60W, 72W; 21A / 225µs for 24W, 36W

Luminaire OW LED 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 2) | Luminaire luminous flux 2) | Luminous efficacy | Unit volume        | Luminaire net weight |
|------|--------|-----------|-----------------------------|---------------------|--------------------------|-----------------------|----------------------------|-------------------|--------------------|----------------------|
|      |        | 24W       | 28W                         | 700mA               | 2700K                    | 3 600lm               | 3150lm                     | 113lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 24W       | 28W                         | 700mA               | 3500K                    | 3 700lm               | 3250lm                     | 117lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 24W       | 28W                         | 700mA               | 4000K                    | 4 450lm               | 3800lm                     | 136lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 24W       | 28W                         | 700mA               | 5000K                    | 4 450lm               | 3800lm                     | 136lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 36W       | 40W                         | 1000mA              | 2700K                    | 4 900lm               | 4300lm                     | 108lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 36W       | 40W                         | 1000mA              | 3500K                    | 5 100lm               | 4550lm                     | 114lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 36W       | 40W                         | 1000mA              | 4000K                    | 6 000lm               | 5350lm                     | 134lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 36W       | 40W                         | 1000mA              | 5000K                    | 6 000lm               | 5350lm                     | 134lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 48W       | 55W                         | 700mA               | 2700K                    | 7 050lm               | 6150lm                     | 112lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 48W       | 55W                         | 700mA               | 3500K                    | 7 350lm               | 6500lm                     | 119lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 48W       | 55W                         | 700mA               | 4000K                    | 8 650lm               | 7500lm                     | 136lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 48W       | 55W                         | 700mA               | 5000K                    | 8 650lm               | 7500lm                     | 136lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 60W       | 67W                         | 830mA               | 2700K                    | 8 150lm               | 7100lm                     | 106lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 60W       | 67W                         | 830mA               | 3500K                    | 8 500lm               | 7450lm                     | 112lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 60W       | 67W                         | 830mA               | 4000K                    | 10 050lm              | 8800lm                     | 131lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 60W       | 67W                         | 830mA               | 5000K                    | 10 050lm              | 8800lm                     | 131lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 72W       | 79W                         | 1000mA              | 2700K                    | 9 450lm               | 8250lm                     | 105lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 72W       | 79W                         | 1000mA              | 3500K                    | 9 900lm               | 8700lm                     | 111lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 72W       | 79W                         | 1000mA              | 4000K                    | 11 650lm              | 10200lm                    | 129lm/W           | 0,16m <sup>3</sup> | 6,3kg                |
|      |        | 72W       | 79W                         | 1000mA              | 5000K                    | 11 650lm              | 10200lm                    | 129lm/W           | 0,16m <sup>3</sup> | 6,3kg                |

1) Symbol of chosen optical system eg. 2109033/6/T2 is OW LED 48 5000K with T2 optical system  
2) tolerance +/- 5% due to LEDs accuracy

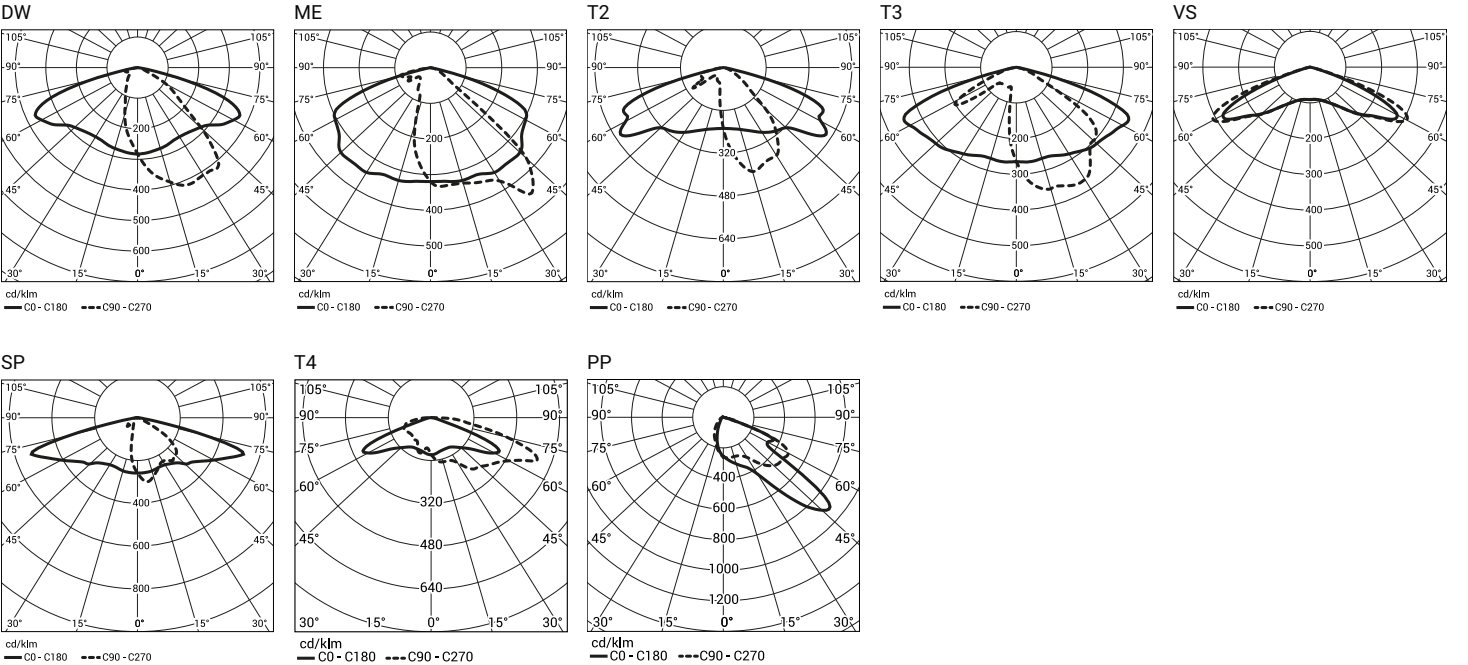
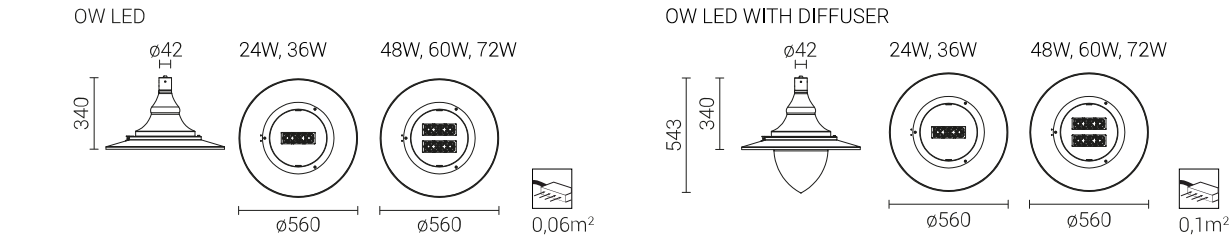
**Directive:** 2014/35/UE (Official Journal of the UE L 96/357 29.03.2014), 2014/30/UE (Official Journal of the UE L 96/79 29.03.2014), 2011/65/UE, 2009/125/EC

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 (for more information visit: [www.rosa.pl/en/knowledge/LED-lighting](http://www.rosa.pl/en/knowledge/LED-lighting)):

- functional grounding
- LED luminaire with an additional protection device



| Code | Symbol                                    | Unit volume        | Net weigh |
|------|---|--------------------|-----------|
|      | Lamp diffuser PMMA transparent for OW LED | 0,02m <sup>3</sup> | 0,55kg    |
|      | Lamp diffuser PMMA frosted for OW LED     | 0,02m <sup>3</sup> | 0,55kg    |



**Luminaire OW LED 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,
- Temperature protection of LED module (from overheating) in case of unintentional luminaire operation during the,
- Regulation of power / luminous flux – the option of setting another value than the catalogue in the range of 30-100% of nominal one,

**Acceptable quantity of luminaires OW LED on one circuit, protected by:**

**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  |