



**Application:** urban roads, residential roads (internal), parks, pedestrians, parkings

**Assembly:** on extension arms, wall brackets, columns with extension arms with  $\varnothing 42 \times 40$  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  $-40^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$

**Expected useful lifetime:** L90F10 – 50 000 h, L80F20 – 100 000 h

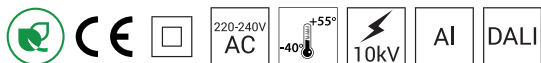
**CRI:**  $>70$  for 5000K, 4000K;  $>80$  for 3500K, 2700K

**Input voltage frequency:** 50/60Hz

**Power factor:**  $\geq 0.95$

**Inrush current:** : 43A / 260 $\mu\text{s}$  for 48W, 60W, 72W; 21A / 225 $\mu\text{s}$  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
<b>2109030/1/...</b> <sup>1)</sup> OW LED 24		24W	28W	700mA	2700K	3 600lm	3150lm	113lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109030/3/...</b> <sup>1)</sup> OW LED 24		24W	28W	700mA	3500K	3 700lm	3250lm	117lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109030/4/...</b> <sup>1)</sup> OW LED 24		24W	28W	700mA	4000K	4 450lm	3800lm	136lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109030/6/...</b> <sup>1)</sup> OW LED 24		24W	28W	700mA	5000K	4 450lm	3800lm	136lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109032/1/...</b> <sup>1)</sup> OW LED 36		36W	40W	1000mA	2700K	4 900lm	4300lm	108lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109032/3/...</b> <sup>1)</sup> OW LED 36		36W	40W	1000mA	3500K	5 100lm	4550lm	114lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109032/4/...</b> <sup>1)</sup> OW LED 36		36W	40W	1000mA	4000K	6 000lm	5350lm	134lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109032/6/...</b> <sup>1)</sup> OW LED 36		36W	40W	1000mA	5000K	6 000lm	5350lm	134lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109033/1/...</b> <sup>1)</sup> OW LED 48		48W	55W	700mA	2700K	7 050lm	6150lm	112lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109033/3/...</b> <sup>1)</sup> OW LED 48		48W	55W	700mA	3500K	7 350lm	6500lm	119lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109033/4/...</b> <sup>1)</sup> OW LED 48		48W	55W	700mA	4000K	8 650lm	7500lm	136lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109033/6/...</b> <sup>1)</sup> OW LED 48		48W	55W	700mA	5000K	8 650lm	7500lm	136lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109034/1/...</b> <sup>1)</sup> OW LED 60		60W	67W	830mA	2700K	8 150lm	7100lm	106lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109034/3/...</b> <sup>1)</sup> OW LED 60		60W	67W	830mA	3500K	8 500lm	7450lm	112lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109034/4/...</b> <sup>1)</sup> OW LED 60		60W	67W	830mA	4000K	10 050lm	8800lm	131lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109034/6/...</b> <sup>1)</sup> OW LED 60		60W	67W	830mA	5000K	10 050lm	8800lm	131lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109035/1/...</b> <sup>1)</sup> OW LED 72		72W	79W	1000mA	2700K	9 450lm	8250lm	105lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109035/3/...</b> <sup>1)</sup> OW LED 72		72W	79W	1000mA	3500K	9 900lm	8700lm	111lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109035/4/...</b> <sup>1)</sup> OW LED 72		72W	79W	1000mA	4000K	11 650lm	10200lm	129lm/W	0,16m <sup>3</sup>	6,3kg
<b>2109035/6/...</b> <sup>1)</sup> OW LED 72		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

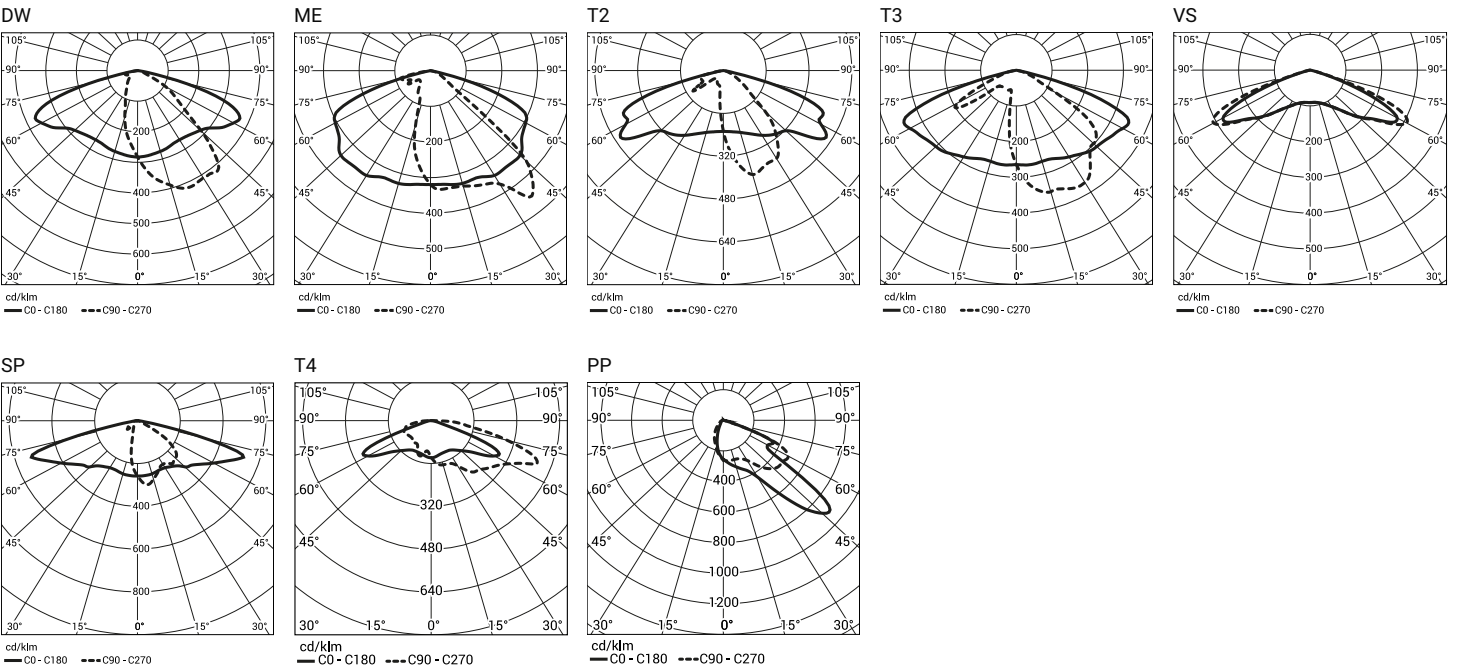
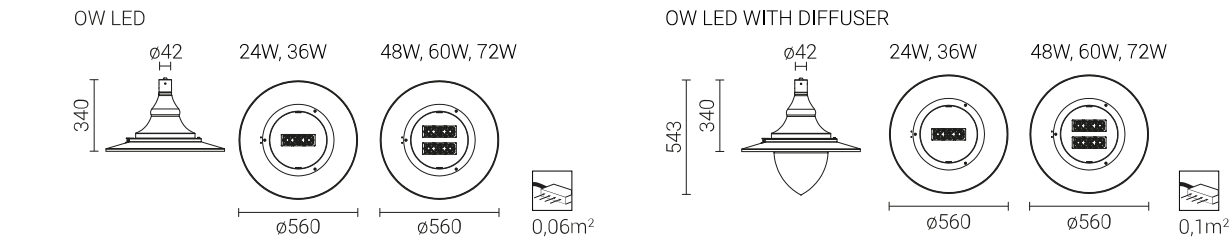
Directive: 2014/35/UE (Official Journal of the UE L 96/357 29.03.2014), 2014/30/UE (Official Journal of the UE L 96/79 29.03.2014), 2011/65/UE, 2009/125/EC

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
690893	Lamp diffuser PMMA transparent for OW LED	0,02m <sup>3</sup>	0,55kg
690898	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 24, 36W	B	3	6	10	16	26	32	40
	C	3	10	16	27	44	54	67
OW LED 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 24, 36W	1	10	19	25	50	68	97
OW LED 48, 60, 72W	0	4	8	11	22	31	44