



## 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>Operating temperature range</b>	from $-40^{\circ}\text{C}$ to $+55^{\circ}\text{C}$
<b>Expected useful lifetime</b>	L90B10 - 100 000 h
<b>CRI</b>	>70
<b>Input voltage frequency</b>	50/60Hz
<b>Power factor</b>	$\geq 0.95$
<b>Control system</b>	Luminaire has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1- 10V).



## TABLE OF TYPES

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>	Unit volume	Net weight
2109030/1/... <sup>2</sup>	OW LED 24	24 W	28 W	700 mA	2700 K	3600 lm	3150 lm	113 lm/W	0.16 m <sup>3</sup>	4.6 kg
2109030/3/... <sup>2</sup>	OW LED 24	24 W	28 W	700 mA	3500 K	3700 lm	3250 lm	117 lm/W	0.16 m <sup>3</sup>	4.6 kg
2109030/4/... <sup>2</sup>	OW LED 24	24 W	28 W	700 mA	4000 K	4450 lm	3800 lm	136 lm/W	0.16 m <sup>3</sup>	4.6 kg
2109030/6/... <sup>2</sup>	OW LED 24	24 W	28 W	700 mA	5000 K	4450 lm	3800 lm	136 lm/W	0.16 m <sup>3</sup>	4.6 kg
2109032/1/... <sup>2</sup>	OW LED 36	36 W	40 W	1000 mA	2700 K	4900 lm	4300 lm	108 lm/W	0.16 m <sup>3</sup>	4.6 kg
2109032/3/... <sup>2</sup>	OW LED 36	36 W	40 W	1000 mA	3500 K	5100 lm	4550 lm	114 lm/W	0.16 m <sup>3</sup>	4.6 kg
2109032/4/... <sup>2</sup>	OW LED 36	36 W	40 W	1000 mA	4000 K	6000 lm	5350 lm	134 lm/W	0.16 m <sup>3</sup>	4.6 kg
2109032/6/... <sup>2</sup>	OW LED 36	36 W	40 W	1000 mA	5000 K	6000 lm	5350 lm	134 lm/W	0.16 m <sup>3</sup>	4.6 kg
2109033/1/... <sup>2</sup>	OW LED 48	48 W	55 W	700 mA	2700 K	7050 lm	6150 lm	112 lm/W	0.16 m <sup>3</sup>	5.1 kg
2109033/3/... <sup>2</sup>	OW LED 48	48 W	55 W	700 mA	3500 K	7350 lm	6500 lm	119 lm/W	0.16 m <sup>3</sup>	5.1 kg
2109033/4/... <sup>2</sup>	OW LED 48	48 W	55 W	700 mA	4000 K	8650 lm	7500 lm	136 lm/W	0.16 m <sup>3</sup>	5.1 kg
2109033/6/... <sup>2</sup>	OW LED 48	48 W	55 W	700 mA	5000 K	8650 lm	7500 lm	136 lm/W	0.16 m <sup>3</sup>	5.1 kg
2109034/1/... <sup>2</sup>	OW LED 60	60 W	67 W	830 mA	2700 K	8150 lm	7100 lm	106 lm/W	0.16 m <sup>3</sup>	5.1 kg
2109034/3/... <sup>2</sup>	OW LED 60	60 W	67 W	830 mA	3500 K	8500 lm	7450 lm	112 lm/W	0.16 m <sup>3</sup>	5.1 kg
2109034/4/... <sup>2</sup>	OW LED 60	60 W	67 W	830 mA	4000 K	10050 lm	8800 lm	131 lm/W	0.16 m <sup>3</sup>	5.1 kg
2109034/6/... <sup>2</sup>	OW LED 60	60 W	67 W	830 mA	5000 K	10050 lm	8800 lm	131 lm/W	0.16 m <sup>3</sup>	5.1 kg
2109035/1/... <sup>2</sup>	OW LED 72	72 W	79 W	1000 mA	2700 K	9450 lm	8250 lm	105 lm/W	0.16 m <sup>3</sup>	5.1 kg
2109035/3/... <sup>2</sup>	OW LED 72	72 W	79 W	1000 mA	3500 K	9900 lm	8700 lm	111 lm/W	0.16 m <sup>3</sup>	5.1 kg
2109035/4/... <sup>2</sup>	OW LED 72	72 W	79 W	1000 mA	4000 K	11650 lm	10200 lm	129 lm/W	0.16 m <sup>3</sup>	5.1 kg
2109035/6/... <sup>2</sup>	OW LED 72	72 W	79 W	1000 mA	5000 K	11650 lm	10200 lm	129 lm/W	0.16 m <sup>3</sup>	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, 2009/125/EC

**STANDARDS:** PN-EN 60598-1: 2015, PN-EN 60598-2-3: 2006, PN-EN 60529: 2003, PN-EN 62262: 2003, PN-EN 62471:2010, PN-EN 55015: 2013, PN-EN 61547: 2009, PN-EN 61000-3-2: 2014, PN-EN 61000-3-3: 2013

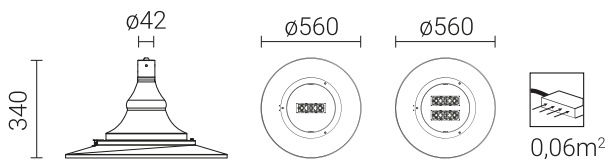
## CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

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:

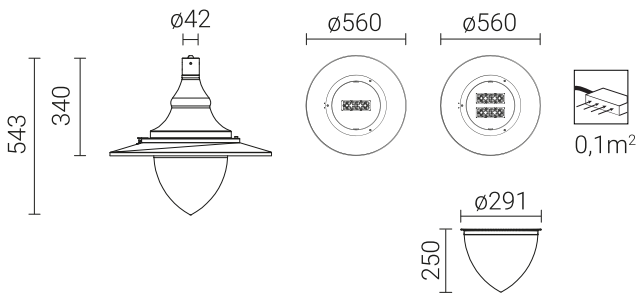
- functional grounding
- LED luminaire with an additional protection device

## TECHNICAL DRAWING

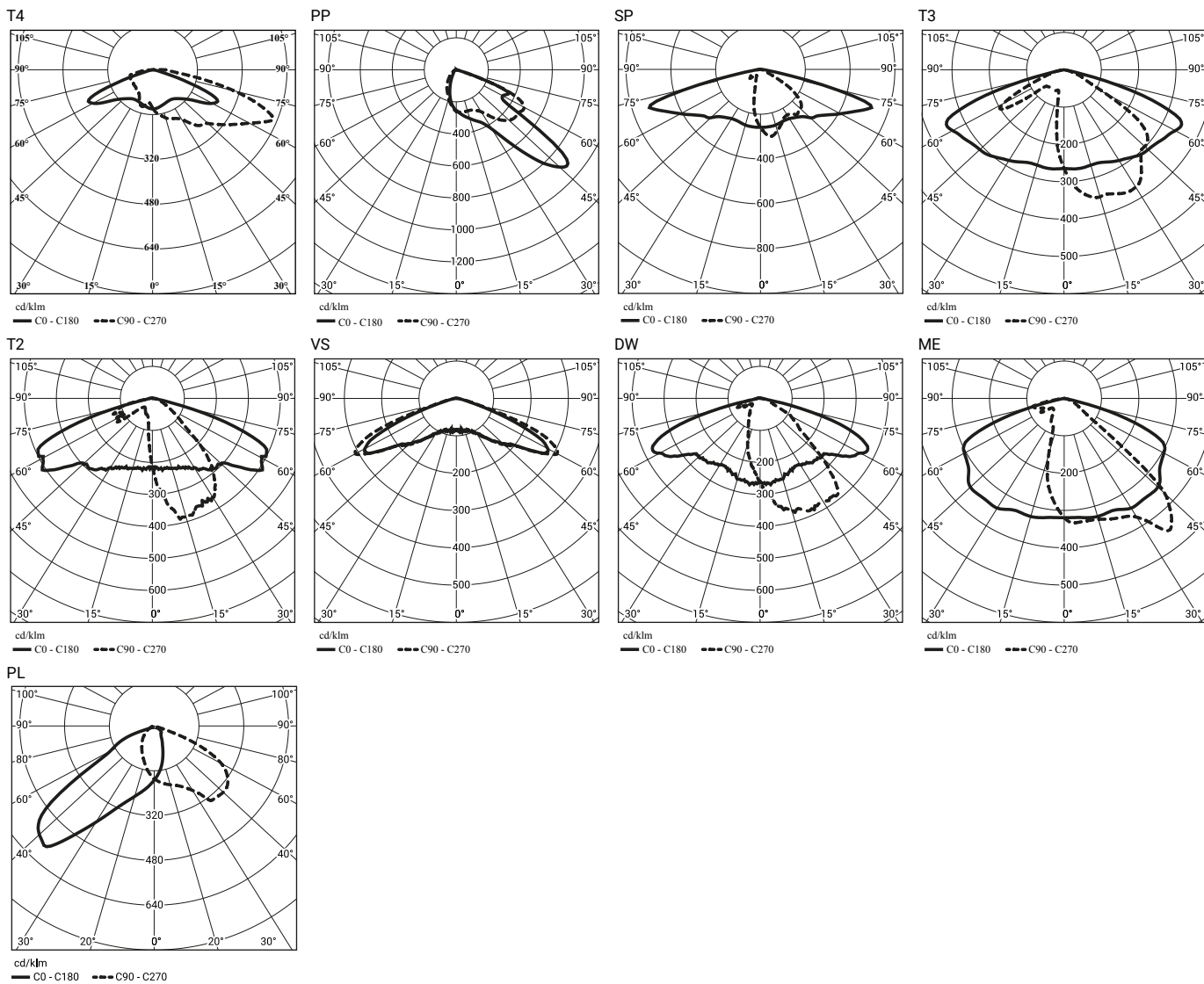
### OW LED



### OW LED WITH DIFFUSER



## PHOTOMETRIC CURVES



## 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,
- 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 ON ONE CIRCUIT

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

## OW LED LUMINAIRE DIFFUSER



Code	Name	Unit volume	Weight
<b>690893</b>	Transparent cone (PMMA), dedicated to OW LED luminaire	0,02m <sup>3</sup>	0,55kg
<b>690898</b>	Lamp diffuser – frosted (PMMA), dedicated to OW LED luminaire	0,02m <sup>3</sup>	0,55kg