



## TECHNICAL DATA

<b>Assembly</b>	on extension arms, wall brackets, columns with extension arms with $\varnothing$ 42 x 40 mm ending
<b>Application</b>	urban roads, residential roads (internal), parks, pedestrians, parkings
<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>	0,16 m <sup>3</sup>
<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) 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>	12 ( 24 W, 36 W), 24 (48 W, 60 W, 72 W)
<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 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
2109030/1/... <sup>2</sup>	OW LED 24	24 W	28 W	700 mA	2700 K	4050 lm	3550 lm	127 lm/W	4.6 kg
2109030/3/... <sup>2</sup>	OW LED 24	24 W	28 W	700 mA	3500 K	4350 lm	3800 lm	136 lm/W	4.6 kg
2109030/4/... <sup>2</sup>	OW LED 24	24 W	28 W	700 mA	4000 K	4600 lm	4050 lm	145 lm/W	4.6 kg
2109030/6/... <sup>2</sup>	OW LED 24	24 W	28 W	700 mA	5000 K	4600 lm	4050 lm	145 lm/W	4.6 kg
2109032/1/... <sup>2</sup>	OW LED 36	36 W	40 W	1000 mA	2700 K	5400 lm	4750 lm	119 lm/W	4.6 kg
2109032/3/... <sup>2</sup>	OW LED 36	36 W	40 W	1000 mA	3500 K	5750 lm	5050 lm	126 lm/W	4.6 kg
2109032/4/... <sup>2</sup>	OW LED 36	36 W	40 W	1000 mA	4000 K	6100 lm	5350 lm	134 lm/W	4.6 kg
2109032/6/... <sup>2</sup>	OW LED 36	36 W	40 W	1000 mA	5000 K	6100 lm	5350 lm	134 lm/W	4.6 kg
2109033/1/... <sup>2</sup>	OW LED 48	48 W	55 W	700 mA	2700 K	8150 lm	7150 lm	130 lm/W	5.1 kg
2109033/3/... <sup>2</sup>	OW LED 48	48 W	55 W	700 mA	3500 K	8650 lm	7600 lm	138 lm/W	5.1 kg
2109033/4/... <sup>2</sup>	OW LED 48	48 W	55 W	700 mA	4000 K	9150 lm	8000 lm	145 lm/W	5.1 kg
2109033/6/... <sup>2</sup>	OW LED 48	48 W	55 W	700 mA	5000 K	9150 lm	8000 lm	145 lm/W	5.1 kg
2109034/1/... <sup>2</sup>	OW LED 60	60 W	67 W	830 mA	2700 K	9300 lm	8150 lm	122 lm/W	5.1 kg
2109034/3/... <sup>2</sup>	OW LED 60	60 W	67 W	830 mA	3500 K	9850 lm	8650 lm	129 lm/W	5.1 kg
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
2109034/6/... <sup>2</sup>	OW LED 60	60 W	67 W	830 mA	5000 K	10450 lm	9150 lm	137 lm/W	5.1 kg
2109035/1/... <sup>2</sup>	OW LED 72	72 W	79 W	1000 mA	2700 K	10700 lm	9350 lm	118 lm/W	5.1 kg
2109035/3/... <sup>2</sup>	OW LED 72	72 W	79 W	1000 mA	3500 K	11350 lm	9950 lm	126 lm/W	5.1 kg
2109035/4/... <sup>2</sup>	OW LED 72	72 W	79 W	1000 mA	4000 K	12100 lm	10600 lm	134 lm/W	5.1 kg
2109035/6/... <sup>2</sup>	OW LED 72	72 W	79 W	1000 mA	5000 K	12100 lm	10600 lm	134 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

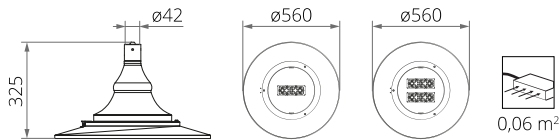
## REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

In order to efficiently 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:

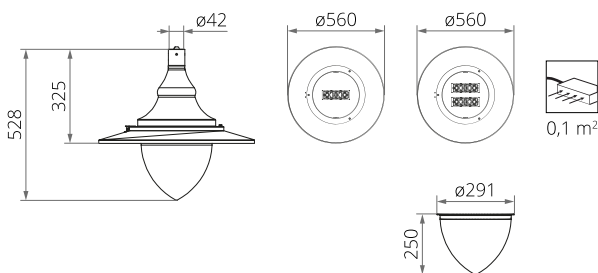
- functional grounding
- LED luminaire with an additional protection device

## TECHNICAL DRAWING

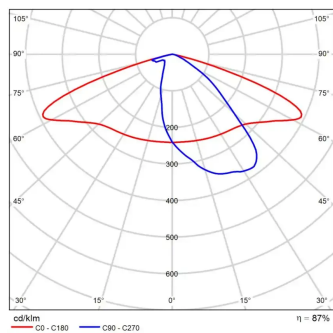
OW LED



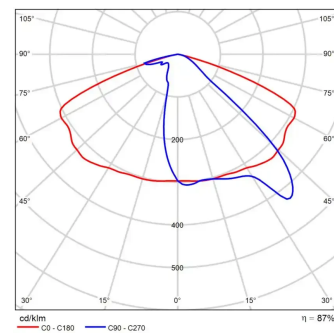
OPTIONAL VERSION  
OW LED WITH DIFFUSER



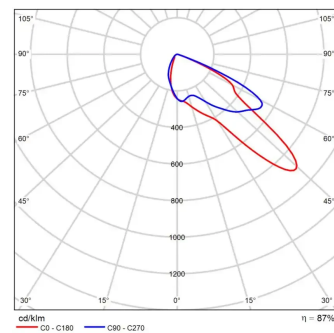
DW



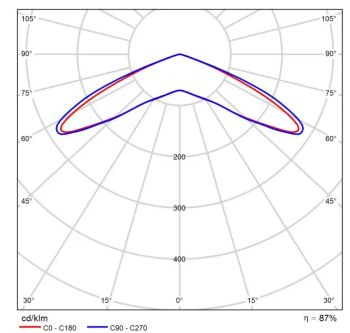
ME



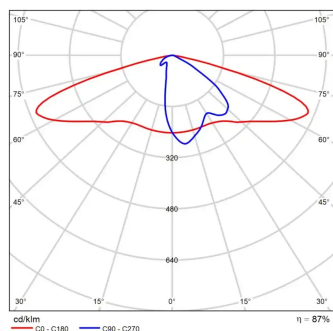
PP



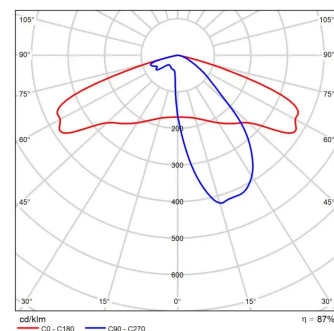
VS



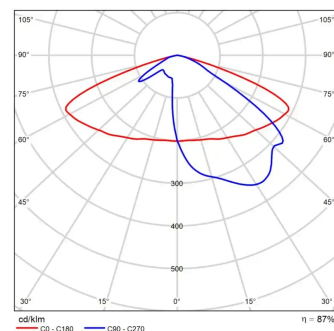
SP



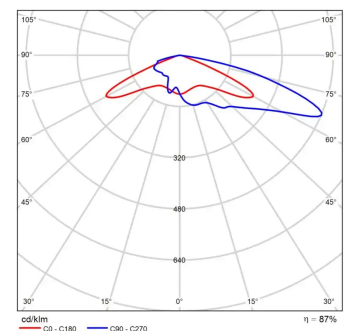
T2



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 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 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