



TECHNICAL DATA

Assembly	on extension arms, wall brackets, columns with extension arms with \varnothing 42 x 40 mm ending
Application	urban roads, residential roads (internal), parks, pedestrians, parkings
Ingress protection	IP 66
Material	body and cap – anodised aluminium formed sheet metal
Unit volume	0,16 m ³
Operating temperature range	from -40°C to +55°C
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Inrush current	21 A / 225 μ s (OW LED 24 -36) 43A / 260 μ s (OW LED 48 - 72)
Input voltage frequency	50/60Hz
Power factor	\geq 0.95
Number of LED	12 (24 W, 36 W), 24 (48 W, 60 W, 72 W)
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 ¹	Luminaire luminous flux ¹	Luminous efficacy ¹	Net weight
2109030/1/... ²	OW LED 24	24 W	28 W	700 mA	2700 K	4050 lm	3550 lm	127 lm/W	4.6 kg
2109030/3/... ²	OW LED 24	24 W	28 W	700 mA	3500 K	4350 lm	3800 lm	136 lm/W	4.6 kg
2109030/4/... ²	OW LED 24	24 W	28 W	700 mA	4000 K	4600 lm	4050 lm	145 lm/W	4.6 kg
2109030/6/... ²	OW LED 24	24 W	28 W	700 mA	5000 K	4600 lm	4050 lm	145 lm/W	4.6 kg
2109032/1/... ²	OW LED 36	36 W	40 W	1000 mA	2700 K	5400 lm	4750 lm	119 lm/W	4.6 kg
2109032/3/... ²	OW LED 36	36 W	40 W	1000 mA	3500 K	5750 lm	5050 lm	126 lm/W	4.6 kg
2109032/4/... ²	OW LED 36	36 W	40 W	1000 mA	4000 K	6100 lm	5350 lm	134 lm/W	4.6 kg
2109032/6/... ²	OW LED 36	36 W	40 W	1000 mA	5000 K	6100 lm	5350 lm	134 lm/W	4.6 kg
2109033/1/... ²	OW LED 48	48 W	55 W	700 mA	2700 K	8150 lm	7150 lm	130 lm/W	5.1 kg
2109033/3/... ²	OW LED 48	48 W	55 W	700 mA	3500 K	8650 lm	7600 lm	138 lm/W	5.1 kg
2109033/4/... ²	OW LED 48	48 W	55 W	700 mA	4000 K	9150 lm	8000 lm	145 lm/W	5.1 kg
2109033/6/... ²	OW LED 48	48 W	55 W	700 mA	5000 K	9150 lm	8000 lm	145 lm/W	5.1 kg
2109034/1/... ²	OW LED 60	60 W	67 W	830 mA	2700 K	9300 lm	8150 lm	122 lm/W	5.1 kg
2109034/3/... ²	OW LED 60	60 W	67 W	830 mA	3500 K	9850 lm	8650 lm	129 lm/W	5.1 kg
2109034/4/... ²	OW LED 60	60 W	67 W	830 mA	4000 K	10450 lm	9150 lm	137 lm/W	5.1 kg
2109034/6/... ²	OW LED 60	60 W	67 W	830 mA	5000 K	10450 lm	9150 lm	137 lm/W	5.1 kg
2109035/1/... ²	OW LED 72	72 W	79 W	1000 mA	2700 K	10700 lm	9350 lm	118 lm/W	5.1 kg
2109035/3/... ²	OW LED 72	72 W	79 W	1000 mA	3500 K	11350 lm	9950 lm	126 lm/W	5.1 kg
2109035/4/... ²	OW LED 72	72 W	79 W	1000 mA	4000 K	12100 lm	10600 lm	134 lm/W	5.1 kg
2109035/6/... ²	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 5000 K 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

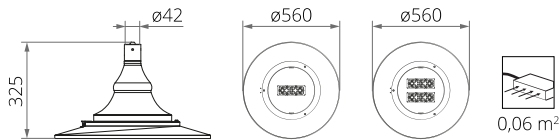
REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

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:

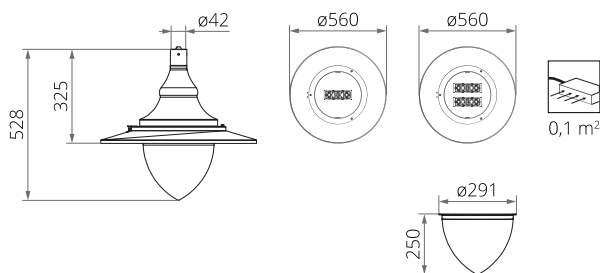
- functional grounding
- LED luminaire with an additional protection device

TECHNICAL DRAWING

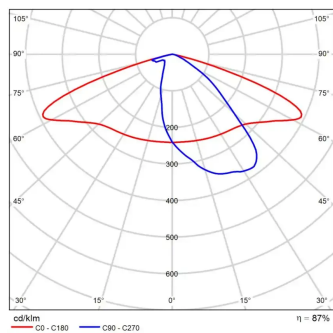
OW LED



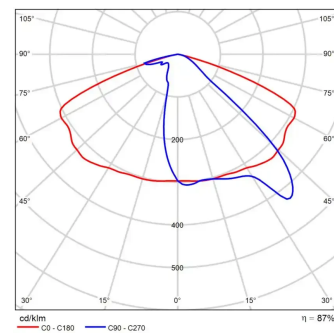
OPTIONAL VERSION
OW LED WITH DIFFUSER



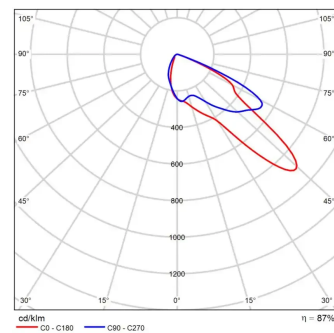
DW



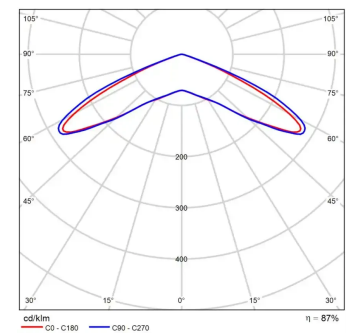
ME



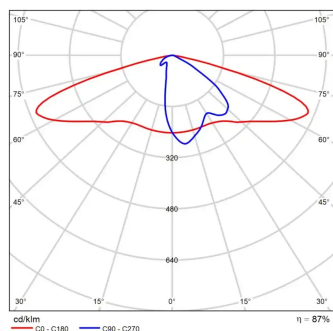
PP



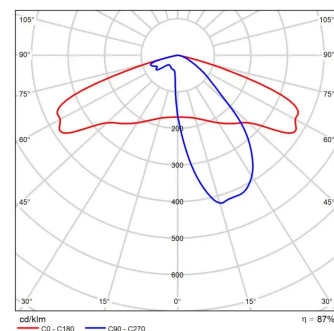
VS



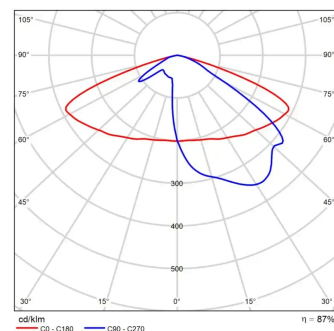
SP



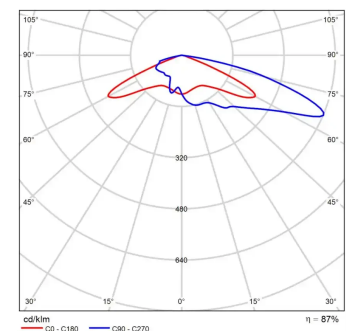
T2



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	2 A	4 A	6 A	10 A	16 A	20 A	25 A
OW LED 24 W, 36 W	B	3	6	10	16	26	32	40
	C	3	10	16	27	44	54	67
OW LED 48 W, 60 W, 72 W	B	1	2	4	6	11	12	15
	C	1	4	6	10	17	20	26

Fuse – type gG and GL

Luminaire	2 A	4 A	6 A	10 A	16 A	20 A	25 A
OW LED 24 W, 36 W	1	10	19	25	50	68	97
OW LED 48 W, 60 W, 72 W	0	4	8	11	22	31	44

OW LED LUMINAIRE DIFFUSER



Code	Name	Unit volume	Weight
690893	Transparent diffuser (PMMA) for OW LED luminaire	0,02 m ³	0,55 kg
690898	Frosted diffuser (PMMA) for OW LED luminaire	0,02 m ³	0,55 kg