



TECHNICAL DATA

Application	urban roads, residential roads (internal), parkings, pedestrian crossings
Assembly	on extension arms, wall brackets, columns with extension arms with ø 60 x 50 mm ending
Colour	black
Ingress protection	IP 66
Optical system	PMMA optics, interchangeable LED module
Material	body and cap – anodised aluminium formed sheet metal
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Input voltage frequency	50/60Hz
Power factor	≥0.95
Number of LED	48
Control system	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 ¹	Luminaire luminous flux ¹	Luminous efficacy ¹	Unit volume	Net weight
2109137/1/... ²	OW II LED 96	96 W	105 W	700 mA	2700 K	13850 lm	12150 lm	116 lm/W	0.35 m³	14.5 kg
2109137/3/... ²	OW II LED 96	96 W	105 W	700 mA	3500 K	14450 lm	12650 lm	120 lm/W	0.35 m³	14.5 kg
2109137/4/... ²	OW II LED 96	96 W	105 W	700 mA	4000 K	16800 lm	14600 lm	139 lm/W	0.35 m³	14.5 kg
2109137/6/... ²	OW II LED 96	96 W	105 W	700 mA	5000 K	16800 lm	14600 lm	139 lm/W	0.35 m³	14.5 kg
2109139/1/... ²	OW II LED 120	120 W	129 W	830 mA	2700 K	16700 lm	14550 lm	113 lm/W	0.35 m³	14.5 kg
2109139/3/... ²	OW II LED 120	120 W	129 W	830 mA	3500 K	17450 lm	15250 lm	118 lm/W	0.35 m³	14.5 kg
2109139/4/... ²	OW II LED 120	120 W	129 W	830 mA	4000 K	20250 lm	17600 lm	136 lm/W	0.35 m³	14.5 kg
2109139/6/... ²	OW II LED 120	120 W	129 W	830 mA	5000 K	20250 lm	17600 lm	136 lm/W	0.35 m³	14.5 kg
2109141/1/... ²	OW II LED 144	144 W	154 W	1000 mA	2700 K	19050 lm	16650 lm	108 lm/W	0.35 m³	14.5 kg
2109141/3/... ²	OW II LED 144	144 W	154 W	1000 mA	3500 K	19850 lm	17350 lm	113 lm/W	0.35 m³	14.5 kg
2109141/4/... ²	OW II LED 144	144 W	154 W	1000 mA	4000 K	23000 lm	20000 lm	130 lm/W	0.35 m³	14.5 kg
2109141/6/... ²	OW II LED 144	144 W	154 W	1000 mA	5000 K	23000 lm	20000 lm	130 lm/W	0.35 m³	14.5 kg

1) tolerance +/- 5% due to LEDs accuracy

2) symbol of chosen optical system eg. 2109137/1/T2 is OW II LED 96 2 700 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, 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

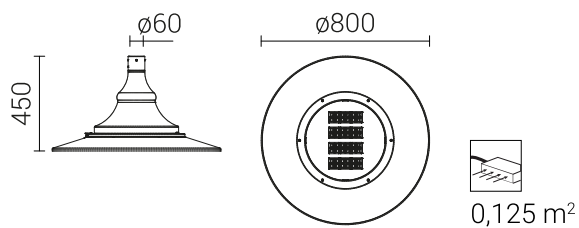
CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

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:

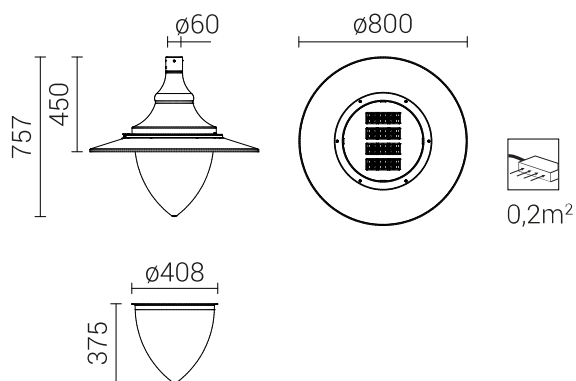
- functional grounding
- LED luminaire with an additional protection device

TECHNICAL DRAWING

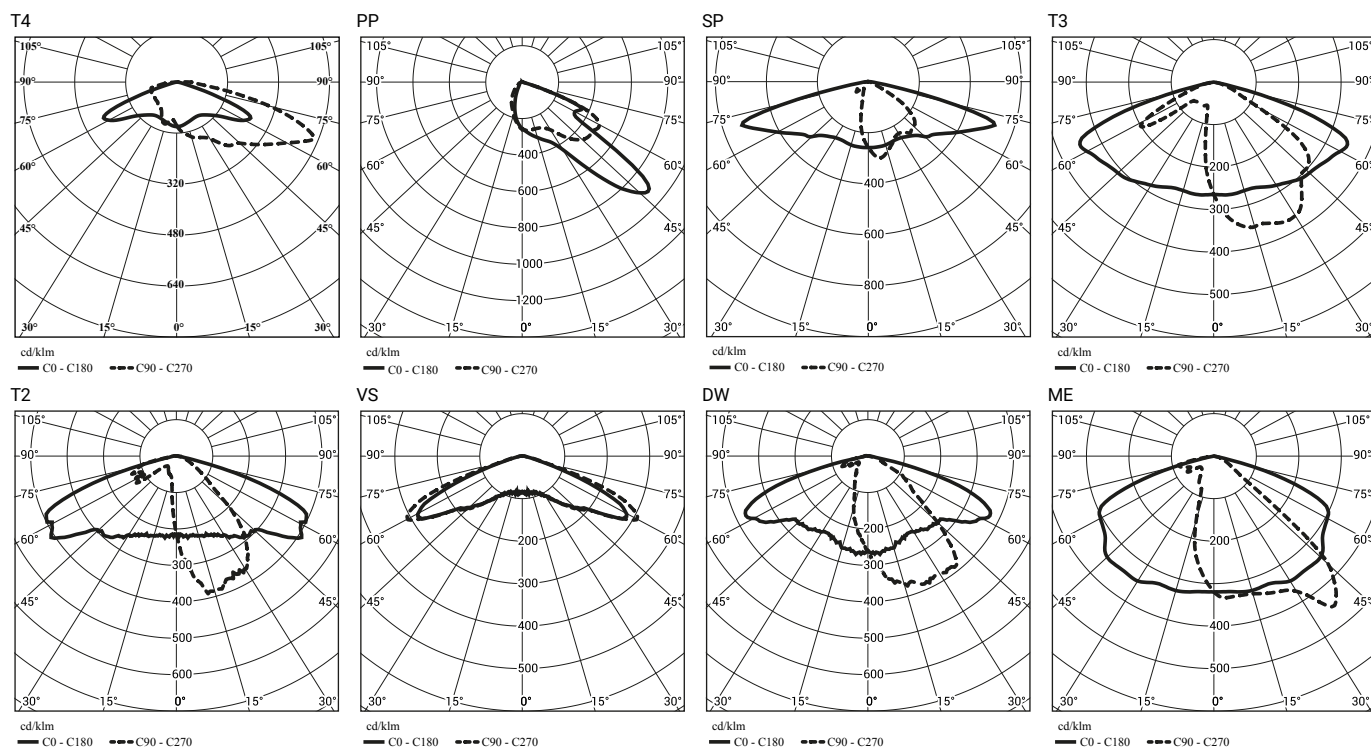
OW II LED



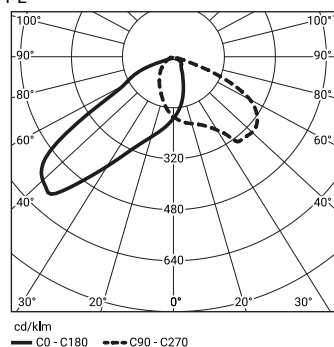
OW II LED WITH DIFFUSER



PHOTOMETRIC CURVES



PL



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,

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	2	5	10	16	26	32	40
	C	2	10	15	27	44	54	67
OW LED 48, 60, 72W	B	1	2	4	6	11	13	17
	C	1	4	6	11	18	28	28

Fuse – type gG and GL

Luminaire	2A	4A	6A	10A	16A	20A	25A
OW LED 24, 36W	4	9	14	25	39	50	62
OW LED 48, 60, 72W	1	2	11	19	30	38	47

OW II LED LUMINAIRE DIFFUSER



Code	Name
691993	Transparent cone (PMMA), dedicated to OW II LED luminaire

Unit volume	Weight
0,075m ³	1,5kg