



TECHNICAL DATA

Application	urban roads, residential roads (internal), parkings, pedestrian crossings
Assembly	on extension arms, columns with extension arms with \varnothing 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
Operating temperature range	from -40°C to $+40^{\circ}\text{C}$
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 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	Unit volume	Inrush current	Net weight
2109137/1/... ²	OW II LED 96	96 W	105 W	700 mA	2700 K	16050 lm	14000 lm	133 lm/W	0.35 m ³	77A / 150 μ s	14.5 kg
2109137/3/... ²	OW II LED 96	96 W	105 W	700 mA	3500 K	17100 lm	14900 lm	142 lm/W	0.35 m ³	77A / 150 μ s	14.5 kg
2109137/4/... ²	OW II LED 96	96 W	105 W	700 mA	4000 K	18100 lm	15750 lm	150 lm/W	0.35 m ³	77A / 150 μ s	14.5 kg
2109137/6/... ²	OW II LED 96	96 W	105 W	700 mA	5000 K	18100 lm	15750 lm	150 lm/W	0.35 m ³	77A / 150 μ s	14.5 kg
2109139/1/... ²	OW II LED 120	120 W	129 W	830 mA	2700 K	18450 lm	16050 lm	124 lm/W	0.35 m ³	77A / 150 μ s	14.5 kg
2109139/3/... ²	OW II LED 120	120 W	129 W	830 mA	3500 K	19600 lm	17100 lm	133 lm/W	0.35 m ³	77A / 150 μ s	14.5 kg
2109139/4/... ²	OW II LED 120	120 W	129 W	830 mA	4000 K	20750 lm	18100 lm	140 lm/W	0.35 m ³	77A / 150 μ s	14.5 kg
2109139/6/... ²	OW II LED 120	120 W	129 W	830 mA	5000 K	20750 lm	18100 lm	140 lm/W	0.35 m ³	77A / 150 μ s	14.5 kg
2109141/1/... ²	OW II LED 144	144 W	154 W	1000 mA	2700 K	21300 lm	18600 lm	121 lm/W	0.35 m ³	77A / 150 μ s	14.5 kg
2109141/3/... ²	OW II LED 144	144 W	154 W	1000 mA	3500 K	22650 lm	19750 lm	128 lm/W	0.35 m ³	77A / 150 μ s	14.5 kg
2109141/4/... ²	OW II LED 144	144 W	154 W	1000 mA	4000 K	24000 lm	20900 lm	136 lm/W	0.35 m ³	77A / 150 μ s	14.5 kg
2109141/6/... ²	OW II LED 144	144 W	154 W	1000 mA	5000 K	24000 lm	20900 lm	136 lm/W	0.35 m ³	77A / 150 μ s	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 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

CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

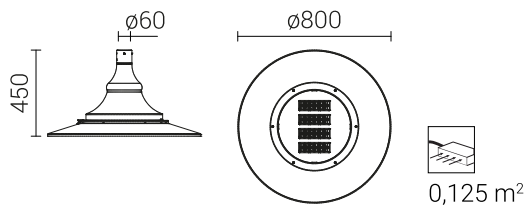
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

- functional grounding
- LED luminaire with an additional protection device

OW II LED

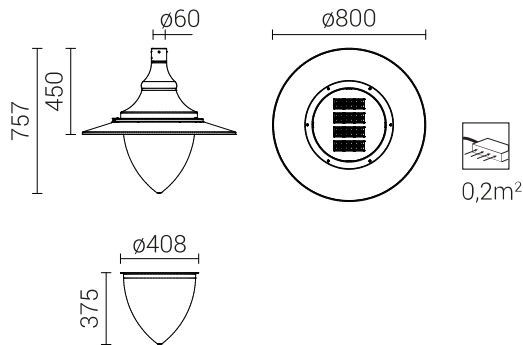
TECHNICAL DRAWING

OW II LED

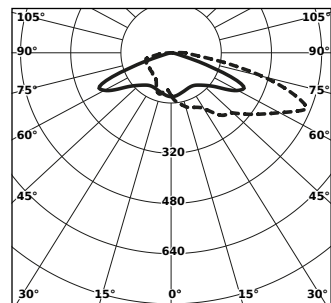


OPTIONAL VERSION

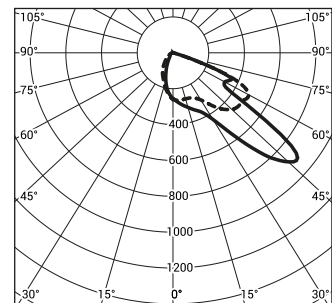
OW II LED WITH DIFFUSER



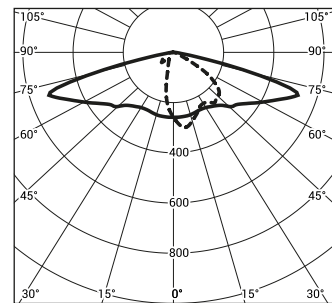
T4



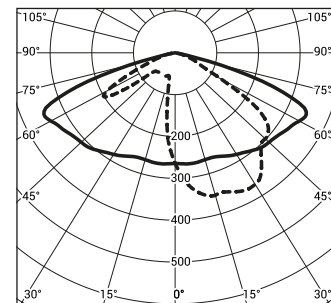
PP



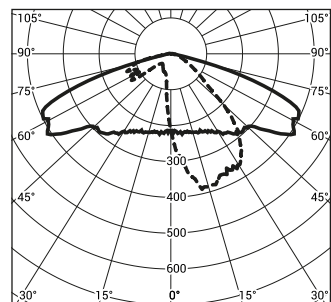
SP



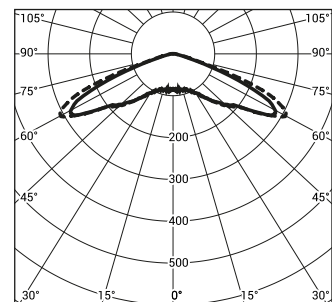
T3



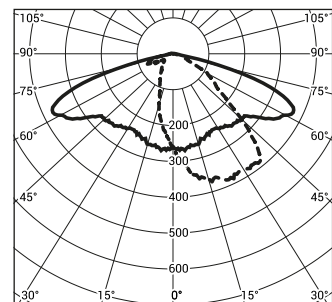
T2



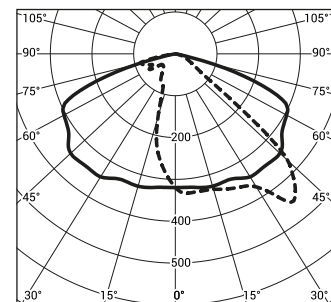
VS



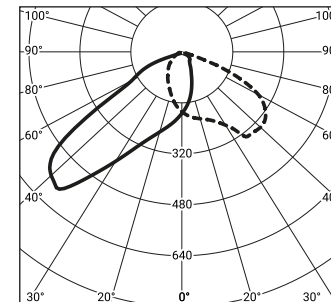
DW



ME



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,
- 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

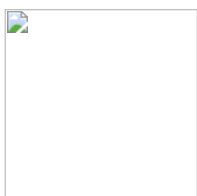
Overcurrent switches MCB type B or C

Luminaire	Typ	2A	4A	6A	10A	16A	20A	25A
OW LED 24, 36W	B	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 diffuser (PMMA), dedicated to OW II LED luminaire

Unit volume	Weight
0,075m ³	1,5kg