



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°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 m³	77A / 150µs	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 m³	77A / 150µs	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 m³	77A / 150µs	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 m³	77A / 150µs	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 m³	77A / 150µs	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 m³	77A / 150µs	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 m³	77A / 150µs	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 m³	77A / 150µs	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 m³	77A / 150µs	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 m³	77A / 150µs	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 m³	77A / 150µs	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 m³	77A / 150µs	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

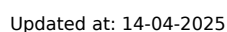
CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

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

ROSA

OW II LED



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

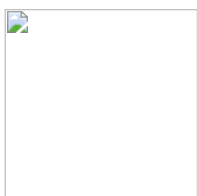
Overcurrent switches MCB type B or C

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