



## TECHNICAL DATA

<b>Application</b>	surrounding office buildings, parks, pedestrians, parkings
<b>Assembly</b>	depending on the type of head: A - pole top mounted or on extension arms with $\varnothing$ 60 x 50 mm, B - pole top mounted with $\varnothing$ 60 x 180 mm
<b>Ingress protection</b>	IP 66
<b>Material</b>	cap – formed aluminium sheet diffuser - tempered glass luminaire body - aluminium alloy, anodized
<b>Operating temperature range</b>	from -40°C to +40°C
<b>Expected useful lifetime</b>	L90B10 - 100 000 h
<b>Input voltage frequency</b>	50/60Hz
<b>Power factor</b>	$\geq 0.95$
<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 TYPES

Code	Code	Symbol	LED power	Luminaire Power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux <sub>1</sub>	Luminaire luminous flux <sub>1</sub>	Luminous efficacy	Unit volume
212030/.../1	212030/.../1/... <sup>2</sup>	RING 1 LED 24	24 W	28 W	500 mA	2700 K	3350 lm	2550 lm	91 lm/W	0.08 m3
212030/.../3	212030/.../3/... <sup>2</sup>	RING 1 LED 24	24 W	28 W	500 mA	3500 K	3550 lm	2700 lm	96 lm/W	0.08 m3
212030/.../4	212030/.../4/... <sup>2</sup>	RING 1 LED 24	24 W	28 W	500 mA	4000 K	4050 lm	3050 lm	109 lm/W	0.08 m3
212030/.../6	212030/.../6/... <sup>2</sup>	RING 1 LED 24	24 W	28 W	500 mA	5000 K	4050 lm	3050 lm	109 lm/W	0.08 m3
212032/.../1	212032/.../1/... <sup>2</sup>	RING 1 LED 36	36 W	40 W	750 mA	2700 K	4750 lm	3600 lm	90 lm/W	0.08 m3
212032/.../3	212032/.../3/... <sup>2</sup>	RING 1 LED 36	36 W	40 W	750 mA	3500 K	5100 lm	3850 lm	96 lm/W	0.08 m3
212032/.../4	212032/.../4/... <sup>2</sup>	RING 1 LED 36	36 W	40 W	750 mA	4000 K	5750 lm	4350 lm	109 lm/W	0.08 m3
212032/.../6	212032/.../6/... <sup>2</sup>	RING 1 LED 36	36 W	40 W	750 mA	5000 K	5750 lm	4350 lm	109 lm/W	0.08 m3
212033/.../1	212033/.../1/... <sup>2</sup>	RING 1 LED 48	48 W	55 W	1000 mA	2700 K	6000 lm	4550 lm	83 lm/W	0.08 m3
212033/.../3	212033/.../3/... <sup>2</sup>	RING 1 LED 48	48 W	55 W	1000 mA	3500 K	6450 lm	4850 lm	88 lm/W	0.08 m3
212033/.../4	212033/.../4/... <sup>2</sup>	RING 1 LED 48	48 W	55 W	1000 mA	4000 K	7250 lm	5500 lm	100 lm/W	0.08 m3
212033/.../6	212033/.../6/... <sup>2</sup>	RING 1 LED 48	48 W	55 W	1000 mA	5000 K	7250 lm	5500 lm	100 lm/W	0.08 m3

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

2) exemplary product code 212030/A/6/T4/C35 is RING 1 LED 24W 5000K luminaire, where /A/ is the 'A' type mounting head, /T4/ is the T4 optical system, /C35 is the anodizing color of the C35 luminaire black

3) the weight of the luminaire with the head type 'A' is 6.6 kg / with the head type 'B' is 7.1 kg

## 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:** -

## 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 (for more information visit: [www.rosa.pl/en/knowledge/LED-lighting](http://www.rosa.pl/en/knowledge/LED-lighting)):

- functional grounding

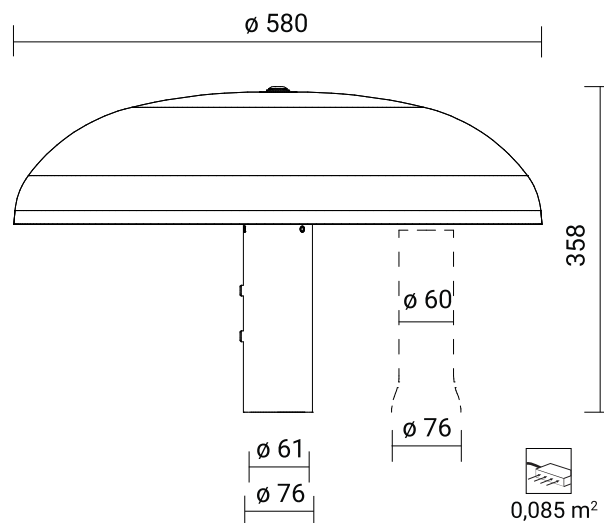
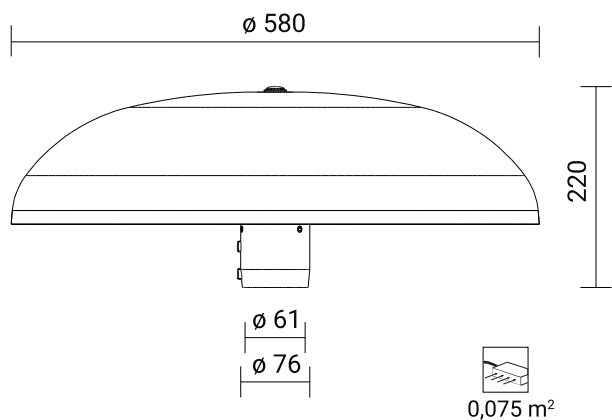
- LED luminaire with an additional protection device

TECHNICAL DRAWING

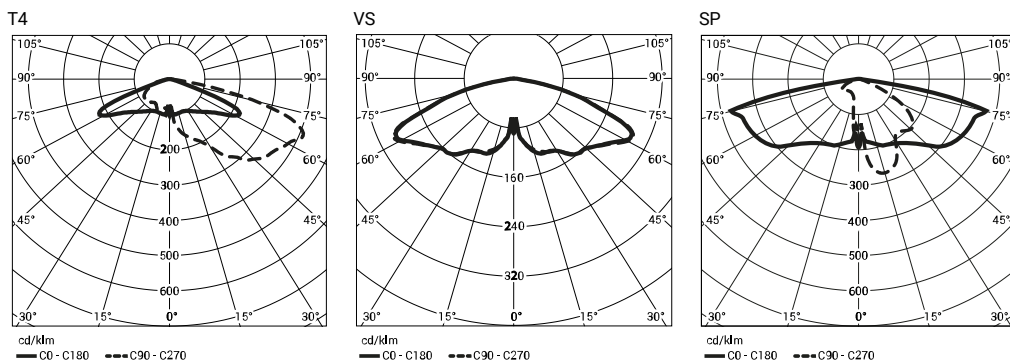
RODZAJ MONTAŻU

RING 1 LED Z GŁOWICĄ TYPU 'A'

RING 1 LED Z GŁOWICĄ TYPU 'B'



PHOTOMETRIC CURVES



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,

ACCECTABLE QUANTITY OF LUMINAIRES ON ONE CIRCUIT

Accetable quantity of luminaires RING 1 LED on one circuit, protected by:

Overcurrent switches MCB type B or C

Luminaire	Typ	2A	4A	6A	10A	16A	20A	25A
RING 1 LED	B	4	7	12	18	30	37	46
	C	4	12	18	31	51	62	78

Fuse - type gG and GL

Luminaire	2A	4A	6A	10A	16A	20A	25A
RING 1 LED	1	10	20	26	52	71	101