



## 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>Optical system</b>	PMMA optics, interchangeable LED module
<b>Material</b>	cap – formed aluminium sheet diffuser - tempered glass luminaire body - aluminum alloy, anodized
<b>Operating temperature range</b>	from -40°C to +40°C
<b>Expected useful lifetime</b>	L90B10 - 100 000 h
<b>CRI</b>	>70
<b>Input voltage frequency</b>	50/60Hz
<b>Power factor</b>	$\geq 0.95$
<b>Number of LED</b>	16 - (24 W, 36 W, 48 W) 32 - 72 W
<b>Rated ambient temperature related to performance for a luminaire</b>	tq = 25°C
<b>Ageing time</b>	0
<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	Symbol	LED power	Luminaire power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux <sup>1</sup>	Luminaire luminous flux <sup>1</sup>	Luminous efficacy <sup>1</sup>	Unit volume	Net weight with mounting head type 'A' / 'B'
212030/.../1/...²/C...	RING 1 LED 24	24 W	28 W	500 mA	2700 K	4050 lm	3050 lm	109 lm/W	0.08 m³	6,6 kg / 7,1 kg
212030/.../3/...²/C...	RING 1 LED 24	24 W	28 W	500 mA	3500 K	4300 lm	3250 lm	116 lm/W	0.08 m³	6,6 kg / 7,1 kg
212030/.../4/...²/C...	RING 1 LED 24	24 W	28 W	500 mA	4000 K	4550 lm	3450 lm	123 lm/W	0.08 m³	6,6 kg / 7,1 kg
212030/.../6/...²/C...	RING 1 LED 24	24 W	28 W	500 mA	5000 K	4550 lm	3450 lm	123 lm/W	0.08 m³	6,6 kg / 7,1 kg
212032/.../1/...²/C...	RING 1 LED 36	36 W	40 W	750 mA	2700 K	5750 lm	4350 lm	109 lm/W	0.08 m³	6,6 kg / 7,1 kg
212032/.../3/...²/C...	RING 1 LED 36	36 W	40 W	750 mA	3500 K	6100 lm	4600 lm	115 lm/W	0.08 m³	6,6 kg / 7,1 kg
212032/.../4/...²/C...	RING 1 LED 36	36 W	40 W	750 mA	4000 K	6500 lm	4900 lm	123 lm/W	0.08 m³	6,6 kg / 7,1 kg
212032/.../6/...²/C...	RING 1 LED 36	36 W	40 W	750 mA	5000 K	6500 lm	4900 lm	123 lm/W	0.08 m³	6,6 kg / 7,1 kg
212033/.../1/...²/C...	RING 1 LED 48	48 W	55 W	1000 mA	2700 K	7300 lm	5550 lm	101 lm/W	0.08 m³	6,6 kg / 7,1 kg
212033/.../3/...²/C...	RING 1 LED 48	48 W	55 W	1000 mA	3500 K	7750 lm	5850 lm	106 lm/W	0.08 m³	6,6 kg / 7,1 kg
212033/.../4/...²/C...	RING 1 LED 48	48 W	55 W	1000 mA	4000 K	8200 lm	6200 lm	113 lm/W	0.08 m³	6,6 kg / 7,1 kg
212033/.../6/...²/C...	RING 1 LED 48	48 W	55 W	1000 mA	5000 K	8200 lm	6200 lm	113 lm/W	0.08 m³	6,6 kg / 7,1 kg
212035/.../1/...²/C...	RING 1 LED 72	72 W	79 W	750 mA	2700 K	11520 lm	8750 lm	111 lm/W	0.08 m³	6,6 kg / 7,1 kg
212035/.../3/...²/C...	RING 1 LED 72	72 W	79 W	750 mA	3500 K	12250 lm	9300 lm	118 lm/W	0.08 m³	6,6 kg / 7,1 kg
212035/.../4/...²/C...	RING 1 LED 72	72 W	79 W	750 mA	4000 K	12950 lm	9800 lm	124 lm/W	0.08 m³	6,6 kg / 7,1 kg
212035/.../6/...²/C...	RING 1 LED 72	72 W	79 W	750 mA	5000 K	12950 lm	9800 lm	124 lm/W	0.08 m³	6,6 kg / 7,1 kg

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

## 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 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: 2013, PN-EN 61547: 2009, PN-EN 61000-3-2: 2014, PN-EN 61000-3-3: 2013

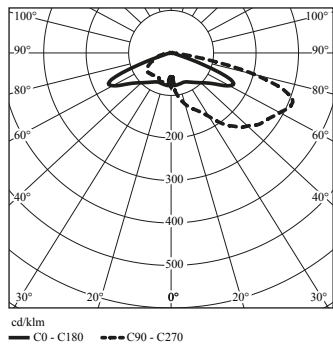
## CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

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:

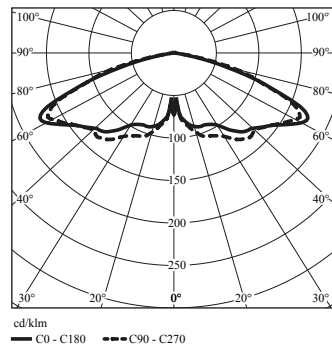
- functional grounding
- LED luminaire with an additional protection device

## PHOTOMETRIC CURVES

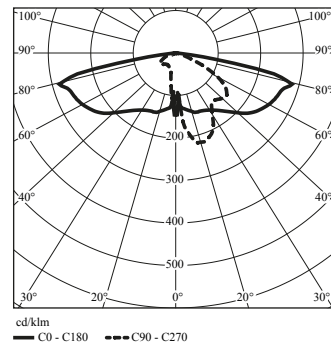
T4



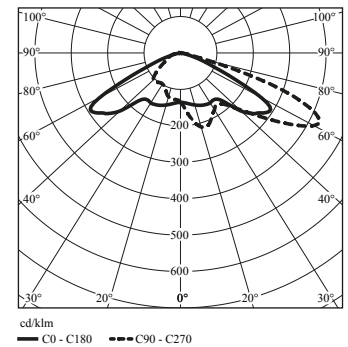
VS



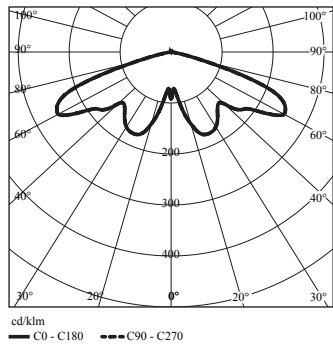
SP



T4 - RING LED 72W



VS - RING LED 72W



## 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,