



## TECHNICAL DATA

<b>Assembly</b>	on extension arms with $\varnothing$ 60 x 100 mm ending
<b>Application</b>	urban roads, residential roads (internal), pedestrians, parkings
<b>Colour</b>	inox / black
<b>Ingress protection</b>	IP 66 for the optical part and the driver
<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>Unit volume</b>	0,068 m <sup>3</sup>
<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>Inrush current</b>	43 A / 260 $\mu$ s
<b>Input voltage frequency</b>	50/60Hz
<b>Power factor</b>	$\geq$ 0.95
<b>Number of LED</b>	16
<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 VARIANTS

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>	Net weight
2210035/1/... <sup>2</sup>	COSMO LED 72	72 W	79 W	1000 mA	2700 K	10850 lm	9750 lm	123 lm/W	10.2 kg
2210035/3/... <sup>2</sup>	COSMO LED 72	72 W	79 W	1000 mA	3500 K	11550 lm	10400 lm	132 lm/W	10.2 kg
2210035/4/... <sup>2</sup>	COSMO LED 72	72 W	79 W	1000 mA	4000 K	12200 lm	11000 lm	139 lm/W	10.2 kg
2210035/6/... <sup>2</sup>	COSMO LED 72	72 W	79 W	1000 mA	5000 K	12200 lm	11000 lm	139 lm/W	10.2 kg
2210033/1/... <sup>2</sup>	COSMO LED 48	48 W	55 W	700 mA	2700 K	8150 lm	7350 lm	134 lm/W	10.2 kg
2210033/3/... <sup>2</sup>	COSMO LED 48	48 W	55 W	700 mA	3500 K	8650 lm	7800 lm	142 lm/W	10.2 kg
2210033/4/... <sup>2</sup>	COSMO LED 48	48 W	55 W	700 mA	4000 K	9150 lm	8250 lm	150 lm/W	10.2 kg
2210033/6/... <sup>2</sup>	COSMO LED 48	48 W	55 W	700 mA	5000 K	9150 lm	8250 lm	150 lm/W	10.2 kg
2210034/1/... <sup>2</sup>	COSMO LED 60	60 W	67 W	830 mA	2700 K	9350 lm	8450 lm	126 lm/W	10.2 kg
2210034/3/... <sup>2</sup>	COSMO LED 60	60 W	67 W	830 mA	3500 K	9950 lm	8950 lm	134 lm/W	10.2 kg
2210034/4/... <sup>2</sup>	COSMO LED 60	60 W	67 W	830 mA	4000 K	10550 lm	9500 lm	142 lm/W	10.2 kg
2210034/6/... <sup>2</sup>	COSMO LED 60	60 W	67 W	830 mA	5000 K	10550 lm	9500 lm	142 lm/W	10.2 kg

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

2) symbol of chosen optical system eg. 2210035/6/T2 is COSMO LED 72 5000 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

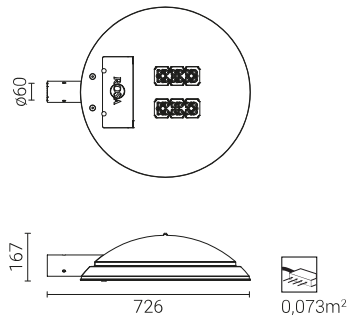
Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

## REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

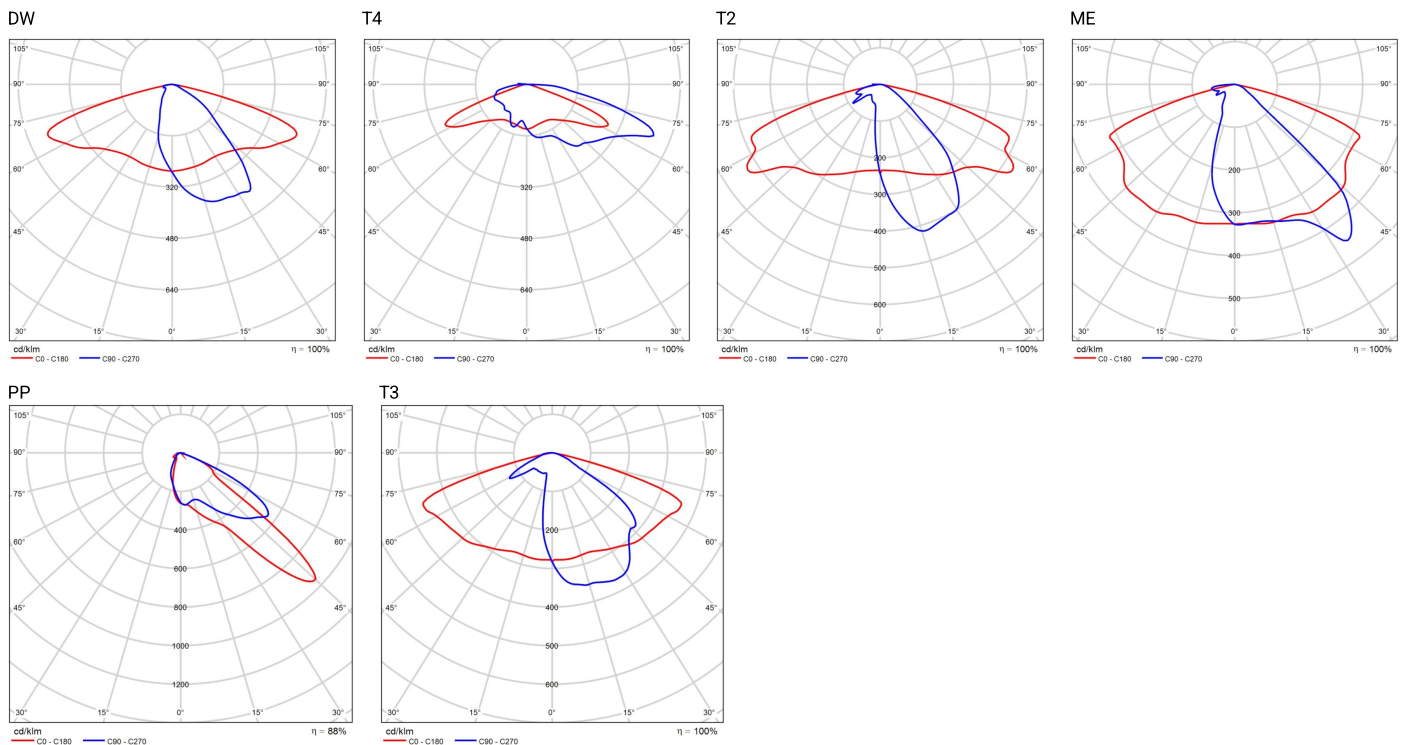
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

- functional grounding
- LED luminaire with an additional protection device

## TECHNICAL DRAWING



## 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,
- 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,

## ACCECTABLE QUANTITY OF LUMINAIRES ON ONE CIRCUIT

Overcurrent switches MCB type B or C

Luminaire	Typ	2 A	4 A	6 A	10 A	16 A	20 A	25 A
COSMO LED 36 W, 48 W, 60 W	B	1	2	4	6	10	12	15
	C	1	4	6	10	17	20	26

Fuse – type gG and GL

Luminaire	2 A	4 A	6 A	10 A	16 A	20 A	25 A
COSMO LED 36 W, 48 W, 60 W	0	4	8	11	22	31	44