

TECHNICAL DATA

Application	urban roads, residential roads (internal), pedestrians, parkings
Assembly	pole top mounted ø 60 x 80 mm
Colour	inox / black
Ingress protection	IP 66 for the optical part and the driver
Optical system	PMMA optics, interchangeable LED module
Material	anodised aluminium alloy
Unit volume	0.073 m³
	-
Operating temperature range	from -40°C to +40°C
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Inrush current	43 A / 260 µs
	43 A / 260 µs
Input voltage frequency	50/60Hz
Power factor	≥0.95
Number of LED	24
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 flux¹	Luminaire luminous flux¹	Luminous efficacy¹	Net weight
2212033/1/...²	COSMO LED ALFA 48	48 W	55 W	700 mA	2700 K	8150 lm	7350 lm	134 lm/W	11.5 kg
2212033/3/...²	COSMO LED ALFA 48	48 W	55 W	700 mA	3500 K	8650 lm	7800 lm	142 lm/W	11.5 kg
2212033/4/...²	COSMO LED ALFA 48	48 W	55 W	700 mA	4000 K	9150 lm	8250 lm	150 lm/W	11.5 kg
2212033/6/...²	COSMO LED ALFA 48	48 W	55 W	700 mA	5000 K	9150 lm	8250 lm	150 lm/W	11.5 kg
2212034/1/...²	COSMO LED ALFA 60	60 W	67 W	830 mA	2700 K	9350 lm	8450 lm	126 lm/W	11.5 kg
2212034/3/...²	COSMO LED ALFA 60	60 W	67 W	830 mA	3500 K	9950 lm	8950 lm	134 lm/W	11.5 kg
2212034/4/...²	COSMO LED ALFA 60	60 W	67 W	830 mA	4000 K	10550 lm	9500 lm	142 lm/W	11.5 kg
2212034/6/...²	COSMO LED ALFA 60	60 W	67 W	830 mA	5000 K	10550 lm	9500 lm	142 lm/W	11.5 kg
2212035/1/...²	COSMO LED ALFA 72	72 W	79 W	1000 mA	2700 K	10850 lm	9750 lm	123 lm/W	11.5 kg
2212035/3/...²	COSMO LED ALFA 72	72 W	79 W	1000 mA	3500 K	11550 lm	10400 lm	132 lm/W	11.5 kg
2212035/4/...²	COSMO LED ALFA 72	72 W	79 W	1000 mA	4000 K	12200 lm	11000 lm	139 lm/W	11.5 kg
2212035/6/...²	COSMO LED ALFA 72	72 W	79 W	1000 mA	5000 K	12200 lm	11000 lm	139 lm/W	11.5 kg

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

2) symbol of chosen optical system eg. 2212035/6/T2 is COSMO LED ALFA 72 5000K 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

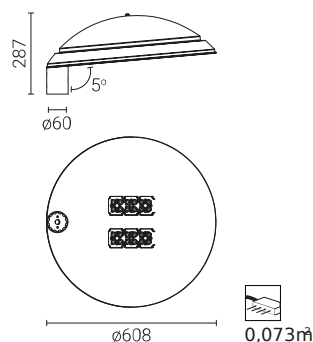
Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

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:

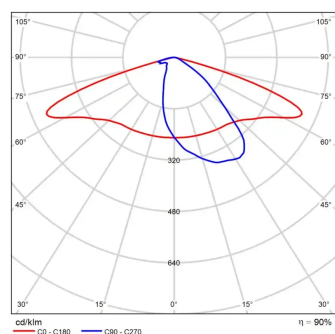
- functional grounding
- LED luminaire with an additional protection device

TECHNICAL DRAWING

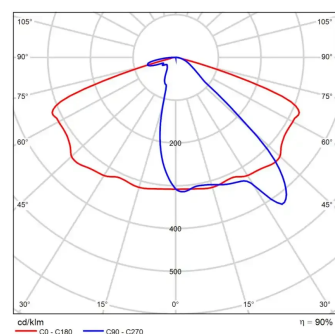


PHOTOMETRIC CURVES

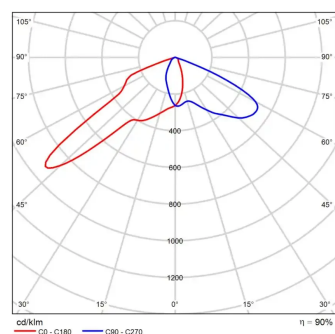
DW



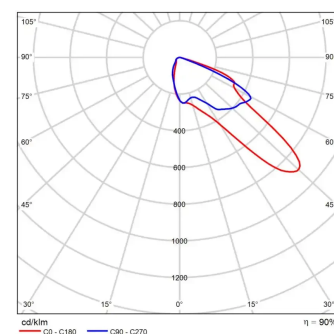
ME



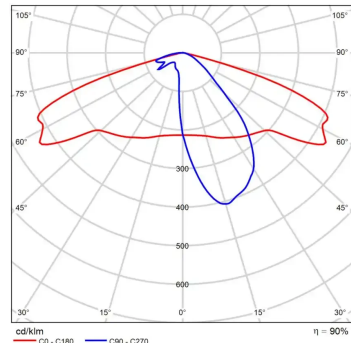
PL



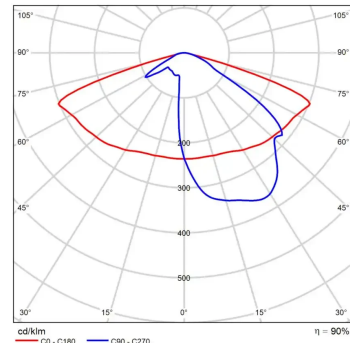
PP



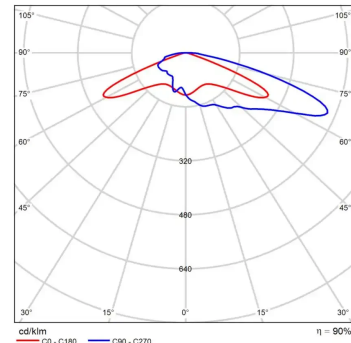
T2



T3



T4



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	Type	2A	4A	6A	10A	16A	20A	25A
COSMO LED ALFA 48, 60, 72W	B	1	2	4	6	10	12	15
	C	1	4	6	10	17	20	26

Fuse – type gG and GL

Luminaire	2A	4A	6A	10A	16A	20A	25A
COSMO LED ALFA 48, 60, 72W	0	4	8	11	22	31	44