

TECHNICAL DATA

Assembly	pole top mounted ø 60 x 80 mm
Application	urban roads, residential roads (internal), pedestrians, parkings
Ingress protection	IP 66 for the optical part and the driver
Optical system	PMMA optics, interchangeable LED module
Material	cap – formed aluminium sheet diffuser - tempered glass luminaire body - aluminum alloy, anodized
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
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	54 W	500 mA	2700 K	8150 lm	7350 lm	134 lm/W	11,5 kg
2212033/3/...²	COSMO LED ALFA 48	48 W	54 W	500 mA	3500 K	8650 lm	7800 lm	142 lm/W	11,5 kg
2212033/4/...²	COSMO LED ALFA 48	48 W	54 W	500 mA	4000 K	9150 lm	8250 lm	150 lm/W	11,5 kg
2212033/6/...²	COSMO LED ALFA 48	48 W	54 W	500 mA	5000 K	9150 lm	8250 lm	150 lm/W	11,5 kg
2212034/1/...²	COSMO LED ALFA 60	60 W	67 W	625 mA	2700 K	9350 lm	8450 lm	126 lm/W	11,5 kg
2212034/3/...²	COSMO LED ALFA 60	60 W	67 W	625 mA	3500 K	9950 lm	8950 lm	134 lm/W	11,5 kg
2212034/4/...²	COSMO LED ALFA 60	60 W	67 W	625 mA	4000 K	10550 lm	9500 lm	142 lm/W	11,5 kg
2212034/6/...²	COSMO LED ALFA 60	60 W	67 W	625 mA	5000 K	10550 lm	9500 lm	142 lm/W	11,5 kg
2212035/1/...²	COSMO LED ALFA 72	72 W	79 W	375 mA	2700 K	10850 lm	9750 lm	123 lm/W	11,5 kg
2212035/3/...²	COSMO LED ALFA 72	72 W	79 W	375 mA	3500 K	11550 lm	10400 lm	132 lm/W	11,5 kg
2212035/4/...²	COSMO LED ALFA 72	72 W	79 W	375 mA	4000 K	12200 lm	11000 lm	139 lm/W	11,5 kg
2212035/6/...²	COSMO LED ALFA 72	72 W	79 W	375 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

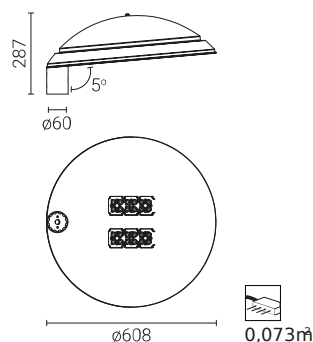
Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

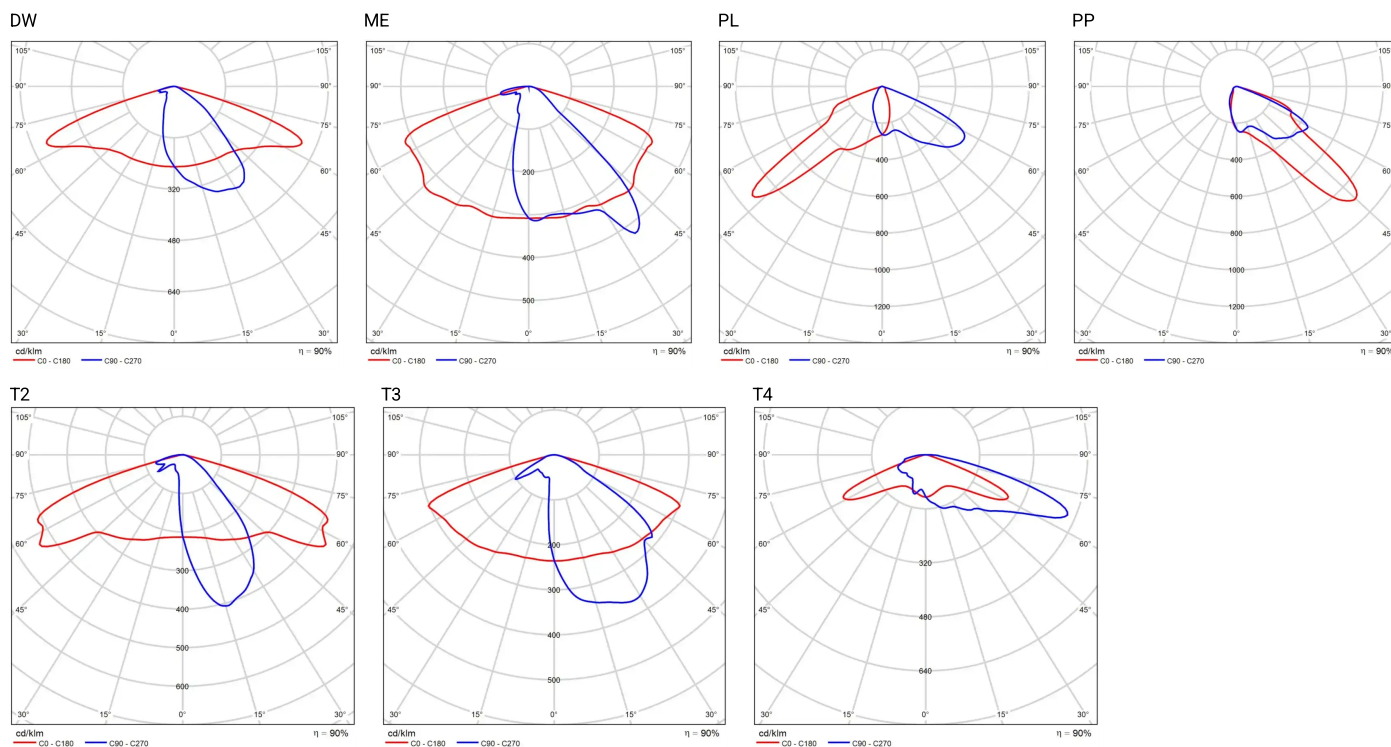
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

- functional grounding
- LED luminaire with an additional protection device

TECHNICAL DRAWING



PHOTOMETRIC CURVES



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 30, 48, 60W	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 30, 48, 60W	0	4	8	11	22	31	44