



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
Operating temperature range	from -40°C to +40°C
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
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).

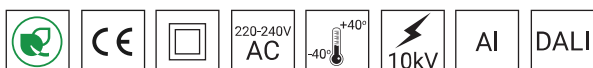


TABLE OF VARIANTS

Code	Symbol	LED power	Luminaire power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux ¹	Luminaire luminous flux ¹	Luminous efficacy ¹	Unit volume	Inrush current	Net weight
2212033/1/... ²	COSMO LED ALFA 48	48 W	55 W	700 mA	2700 K	8150 lm	7350 lm	134 lm/W	0.073 m³	43A / 260µs	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	0.073 m³	43A / 260µs	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	0.073 m³	43A / 260µs	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	0.073 m³	43A / 260µs	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	0.073 m³	43A / 260µs	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	0.073 m³	43A / 260µs	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	0.073 m³	43A / 260µs	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	0.073 m³	43A / 260µs	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	0.073 m³	43A / 260µs	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	0.073 m³	43A / 260µs	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	0.073 m³	43A / 260µs	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	0.073 m³	43A / 260µs	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

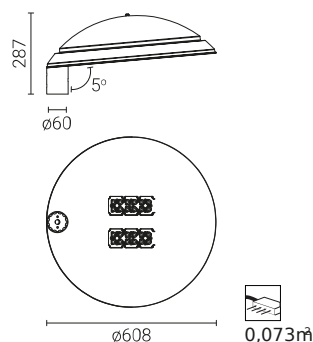
Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

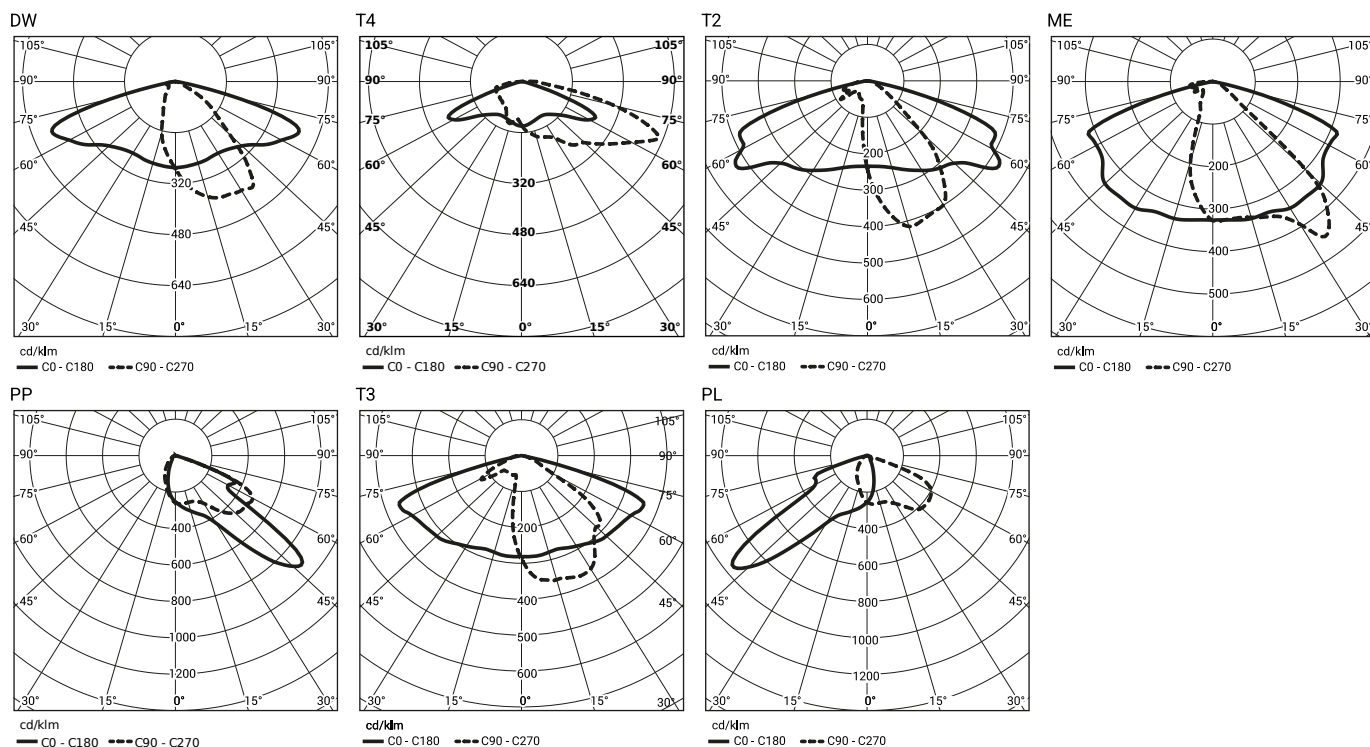
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

- functional grounding
- LED luminaire with an additional protection device

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 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