

URSA LED ALFA 120



TECHNICAL DATA

Application	motorways and expressway, urban roads, pedestrians, parkings
Assembly	pole top mounted ø 60 x 95 mm
Colour	inox / black
Ingress protection	IP 66 for the optical part and the driver
Material	anodised aluminium alloy
Unit volume	0.028 m³ (URSA LED ALFA 48 - 72 W), 0.037 m³ (URSA LED ALFA 96 - 144 W)
Operating temperature range	from -40°C to +55°C (for 48 W, 60 W, 72 W, 96 W, 120 W), from -40°C to +40°C (for 144 W)
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Inrush current	55 A / 200 µs (URSA LED ALFA 48 - 72 W), 67A / 210µs (URSA LED ALFA 96 - 144 W)
Input voltage frequency	50/60Hz
Power factor	≥0.95
Number of LED	48
Control system	Luminaire has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1- 10V).

Code	Symbol	LED power	Luminaire power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux¹	Luminaire luminous flux¹	Luminous efficacy¹	Net weight
2221039/6/...²	URSA LED ALFA 120	120 W	129 W	830 mA	5000 K	20900 lm	19150 lm	148 lm/W	10 kg

- 1) tolerance +/- 5% due to LEDs accuracy
2) symbol of chosen optical system eg. 2221033/6/T2 is URSA LED ALFA 48 5000K with T2 optical system

DIRECTIVES AND STANDARDS

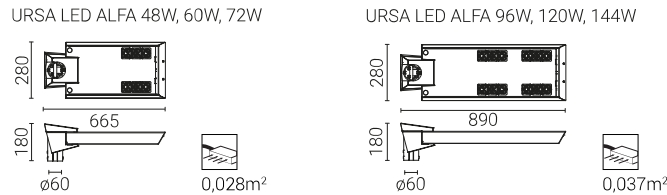
DIRECTIVES: 2014/35/UE (Official Journal of the UE L 96/357 29.03.2014), 2014/30/UE (Official Journal of the UE L 96/79 29.03.2014), 2011/65/UE RoHS (Official Journal of the UE L 174/88 01.07.2011), 2009/125/EC(Official Journal of the UE L 285/10 31.10.2009)
STANDARDS: PN-EN IEC 60598-1: 2021-7, PN-EN 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

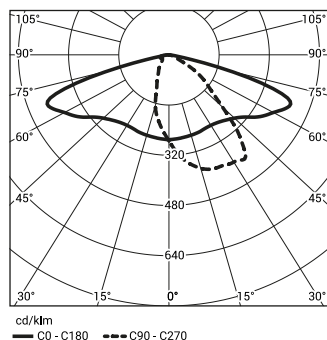
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:
- functional grounding
- LED luminaire with an additional protection device

TECHNICAL DRAWING

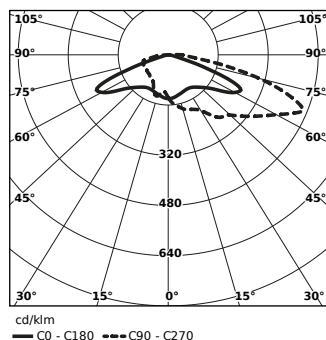


PHOTOMETRIC CURVES

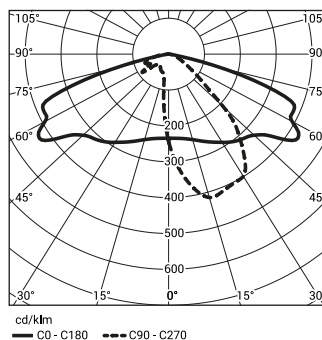
DW



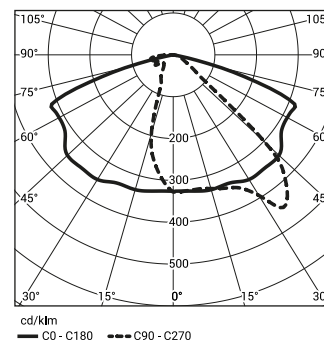
T4



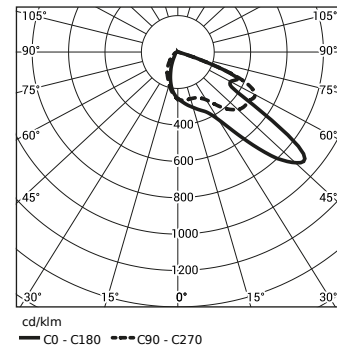
T2



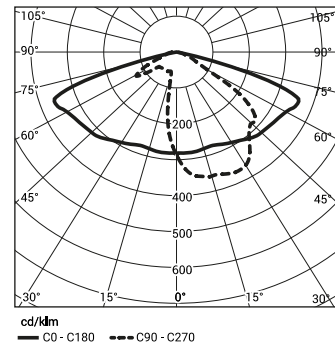
ME



PP



T3



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	Typ	2A	4A	6A	10A	16A	20A	25A
URSA LED ALFA 48, 60, 72W	B	1	2	4	6	11	13	17
	C	1	4	6	11	18	22	28
URSA LED ALFA 96, 120, 144W	B	1	1	3	5	8	12	12
	C	1	3	5	8	13	16	20

Overcurrent switches MCB type B or C

Luminaire	Typ	2A	4A	6A	10A	16A	20A	25A
URSA LED ALFA 48, 60, 72W	B	1	2	4	6	11	13	17
	C	1	4	6	11	18	22	28
URSA LED ALFA 96, 120, 144W	B	1	1	3	5	8	12	12
	C	1	3	5	8	13	16	20