

TECHNICAL DATA

Assembly	on extension arms with \varnothing 60 x 95 mm ending
Application	motorways and expressway, urban roads, pedestrians, parkings
Ingress protection	IP 66 for the optical part and the driver
Optical system	PMMA optics, interchangeable LED module
Material	anodised aluminium alloy
Unit volume	0,028 m ³ (URSA LED 48 - 72 W) 0,037 m ³ (URSA LED 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 μ s (URSA LED 48 - 72) 67 A / 210 μ s (URSA LED 96 - 144)
Input voltage frequency	50/60Hz
Power factor	\geq 0,95
Number of LED	24 (48 W, 60 W, 72 W), 48 (96 W, 120 W, 144 W)
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	Net weight
2220033/1/... ²	URSA LED 48	48 W	55 W	700 mA	2700 K	8150 lm	7450 lm	135 lm/W	8 kg
2220033/3/... ²	URSA LED 48	48 W	55 W	700 mA	3500 K	8650 lm	7900 lm	144 lm/W	8 kg
2220033/4/... ²	URSA LED 48	48 W	55 W	700 mA	4000 K	9150 lm	8350 lm	152 lm/W	8 kg
2220033/6/... ²	URSA LED 48	48 W	55 W	700 mA	5000 K	9150 lm	8350 lm	152 lm/W	8 kg
2220034/1/... ²	URSA LED 60	60 W	68 W	830 mA	2700 K	9300 lm	8500 lm	127 lm/W	8 kg
2220034/3/... ²	URSA LED 60	60 W	68 W	830 mA	3500 K	9850 lm	9000 lm	134 lm/W	8 kg
2220034/4/... ²	URSA LED 60	60 W	68 W	830 mA	4000 K	10450 lm	9550 lm	143 lm/W	8 kg
2220034/6/... ²	URSA LED 60	60 W	68 W	830 mA	5000 K	10450 lm	9550 lm	143 lm/W	8 kg
2220035/1/... ²	URSA LED 72	72 W	79 W	1000 mA	2700 K	10700 lm	9800 lm	124 lm/W	8 kg
2220035/3/... ²	URSA LED 72	72 W	79 W	1000 mA	3500 K	11350 lm	10400 lm	132 lm/W	8 kg
2220035/4/... ²	URSA LED 72	72 W	79 W	1000 mA	4000 K	12100 lm	11050 lm	140 lm/W	8 kg
2220035/6/... ²	URSA LED 72	72 W	79 W	1000 mA	5000 K	12100 lm	11050 lm	140 lm/W	8 kg
2220037/1/... ²	URSA LED 96	96 W	105 W	700 mA	2700 K	16300 lm	14900 lm	142 lm/W	10 kg
2220037/3/... ²	URSA LED 96	96 W	105 W	700 mA	3500 K	17300 lm	15850 lm	151 lm/W	10 kg
2220037/4/... ²	URSA LED 96	96 W	105 W	700 mA	4000 K	18300 lm	16750 lm	160 lm/W	10 kg
2220037/6/... ²	URSA LED 96	96 W	105 W	700 mA	5000 K	18300 lm	16750 lm	160 lm/W	10 kg
2220039/1/... ²	URSA LED 120	120 W	129 W	830 mA	2700 K	18600 lm	17050 lm	132 lm/W	10 kg
2220039/3/... ²	URSA LED 120	120 W	129 W	830 mA	3500 K	19700 lm	18050 lm	140 lm/W	10 kg
2220039/4/... ²	URSA LED 120	120 W	129 W	830 mA	4000 K	20900 lm	19150 lm	148 lm/W	10 kg
2220039/6/... ²	URSA LED 120	120 W	129 W	830 mA	5000 K	20900 lm	19150 lm	148 lm/W	10 kg
2220041/1/... ²	URSA LED 144	144 W	154 W	1000 mA	2700 K	21400 lm	19600 lm	127 lm/W	10 kg
2220041/3/... ²	URSA LED 144	144 W	154 W	1000 mA	3500 K	22700 lm	20800 lm	135 lm/W	10 kg
2220041/4/... ²	URSA LED 144	144 W	154 W	1000 mA	4000 K	24200 lm	22150 lm	144 lm/W	10 kg
2220041/6/... ²	URSA LED 144	144 W	154 W	1000 mA	5000 K	24200 lm	22150 lm	144 lm/W	10 kg

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

2) symbol of chosen optical system eg. 2220033/6/T2 is URSA LED 48 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

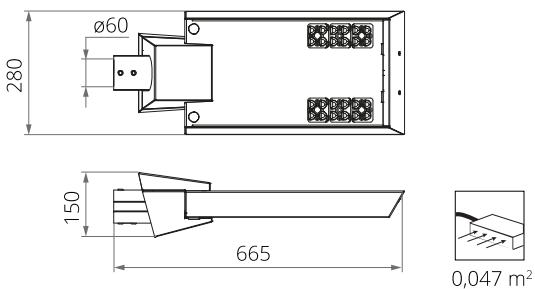
REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

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:

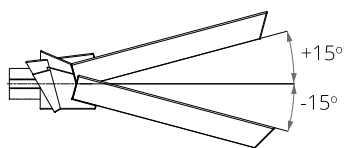
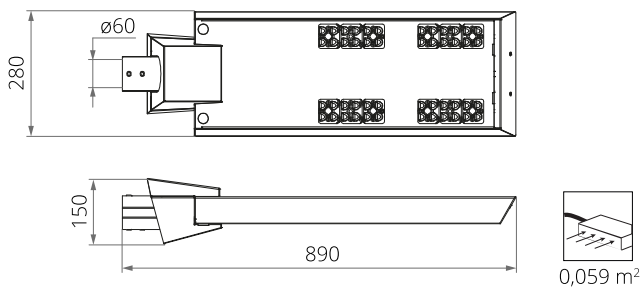
- functional grounding
- LED luminaire with an additional protection device

TECHNICAL DRAWING

URSA LED 48W, 60W, 72W

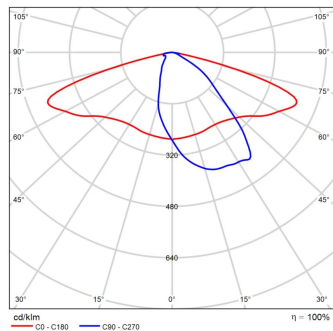


URSA LED 96W, 120W, 144W

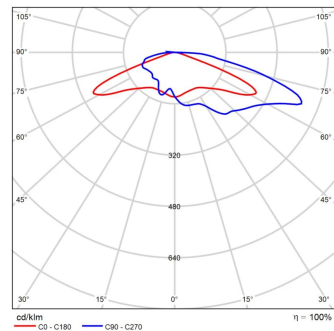


PHOTOMETRIC CURVES

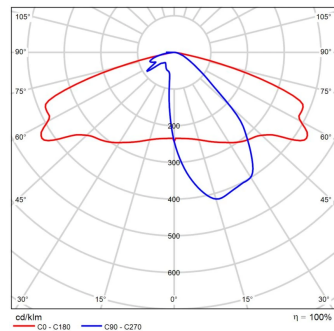
DW



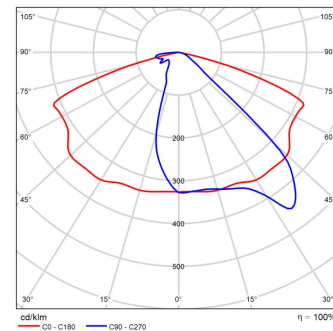
T4

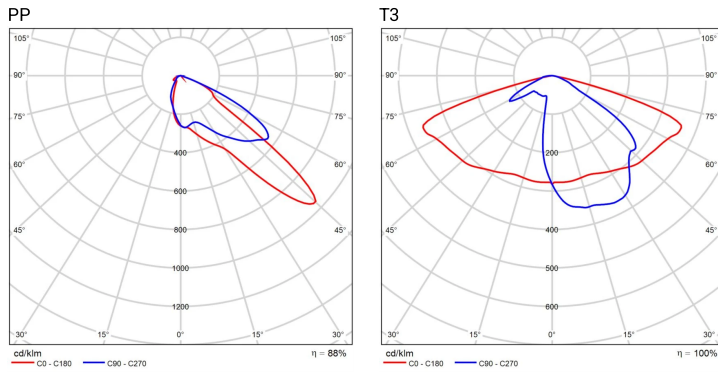


T2



ME





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

Fuse – type gG and GL

Luminaire	2 A	4 A	6 A	10 A	16 A	20 A	25 A
URSA LED 48, 60, 72 W	1	2	11	19	30	38	47
URSA LED 96, 120, 144 W	1	1	6	9	15	19	24