

TECHNICAL DATA

Application	motorways and expressway, urban roads, pedestrians, parkings
Assembly	on extension arms with \varnothing 60 x 95 mm ending
Colour	inox / black
Ingress protection	IP 66 for the optical part and the driver
Material	anodised aluminium alloy
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
Input voltage frequency	50/60Hz
Power factor	≥ 0.95
Control system	Luminaire has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1- 10V).



TABLE OF TYPES

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	Net weight
2220033/1/... ²	URSA LED 48	48 W	55 W	700 mA	2700 K	8150 lm	7450 lm	135 lm/W	0.028 m ³	8 kg
2220033/3/... ²	URSA LED 48	48 W	55 W	700 mA	3500 K	8650 lm	7900 lm	144 lm/W	0.028 m ³	8 kg
2220033/4/... ²	URSA LED 48	48 W	55 W	700 mA	4000 K	9150 lm	8350 lm	152 lm/W	0.028 m ³	8 kg
2220033/6/... ²	URSA LED 48	48 W	55 W	700 mA	5000 K	9150 lm	8350 lm	152 lm/W	0.028 m ³	8 kg
2220034/1/... ²	URSA LED 60	60 W	68 W	830 mA	2700 K	9300 lm	8500 lm	127 lm/W	0.028 m ³	8 kg
2220034/3/... ²	URSA LED 60	60 W	68 W	830 mA	3500 K	9850 lm	9000 lm	134 lm/W	0.028 m ³	8 kg
2220034/4/... ²	URSA LED 60	60 W	68 W	830 mA	4000 K	10450 lm	9550 lm	143 lm/W	0.028 m ³	8 kg
2220034/6/... ²	URSA LED 60	60 W	68 W	830 mA	5000 K	10450 lm	9550 lm	143 lm/W	0.028 m ³	8 kg
2220035/1/... ²	URSA LED 72	72 W	79 W	1000 mA	2700 K	10700 lm	9800 lm	124 lm/W	0.028 m ³	8 kg
2220035/3/... ²	URSA LED 72	72 W	79 W	1000 mA	3500 K	11350 lm	10400 lm	132 lm/W	0.028 m ³	8 kg
2220035/4/... ²	URSA LED 72	72 W	79 W	1000 mA	4000 K	12100 lm	11050 lm	140 lm/W	0.028 m ³	8 kg
2220035/6/... ²	URSA LED 72	72 W	79 W	1000 mA	5000 K	12100 lm	11050 lm	140 lm/W	0.028 m ³	8 kg
2220037/1/... ²	URSA LED 96	96 W	105 W	700 mA	2700 K	16300 lm	14900 lm	142 lm/W	0.037 m ³	10 kg
2220037/3/... ²	URSA LED 96	96 W	105 W	700 mA	3500 K	17300 lm	15850 lm	151 lm/W	0.037 m ³	10 kg
2220037/4/... ²	URSA LED 96	96 W	105 W	700 mA	4000 K	18300 lm	16750 lm	160 lm/W	0.037 m ³	10 kg
2220037/6/... ²	URSA LED 96	96 W	105 W	700 mA	5000 K	18300 lm	16750 lm	160 lm/W	0.037 m ³	10 kg
2220039/1/... ²	URSA LED 120	120 W	129 W	830 mA	2700 K	18600 lm	17050 lm	132 lm/W	0.037 m ³	10 kg
2220039/3/... ²	URSA LED 120	120 W	129 W	830 mA	3500 K	19700 lm	18050 lm	140 lm/W	0.037 m ³	10 kg
2220039/4/... ²	URSA LED 120	120 W	129 W	830 mA	4000 K	20900 lm	19150 lm	148 lm/W	0.037 m ³	10 kg
2220039/6/... ²	URSA LED 120	120 W	129 W	830 mA	5000 K	20900 lm	19150 lm	148 lm/W	0.037 m ³	10 kg
2220041/1/... ²	URSA LED 144	144 W	154 W	1000 mA	2700 K	21400 lm	19600 lm	127 lm/W	0.037 m ³	10 kg
2220041/3/... ²	URSA LED 144	144 W	154 W	1000 mA	3500 K	22700 lm	20800 lm	135 lm/W	0.037 m ³	10 kg
2220041/4/... ²	URSA LED 144	144 W	154 W	1000 mA	4000 K	24200 lm	22150 lm	144 lm/W	0.037 m ³	10 kg
2220041/6/... ²	URSA LED 144	144 W	154 W	1000 mA	5000 K	24200 lm	22150 lm	144 lm/W	0.037 m ³	10 kg

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

2) symbol of chosen optical system eg. 2220033/6/T2 is URSA LED 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, 2009/125/EC

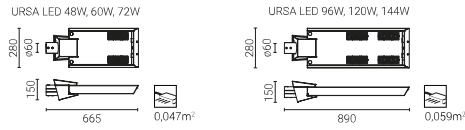
STANDARDS: PN-EN IEC 60598-1: 2021-7, PN-EN 60598-2-3: 2006, PN-EN 60529: 2003, PN-EN 62262: 2003, PN-EN 62471:2010, PN-EN 55015: 2013, PN-EN 61547: 2009, PN-EN 61000-3-2: 2014, PN-EN 61000-3-3: 2013

CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

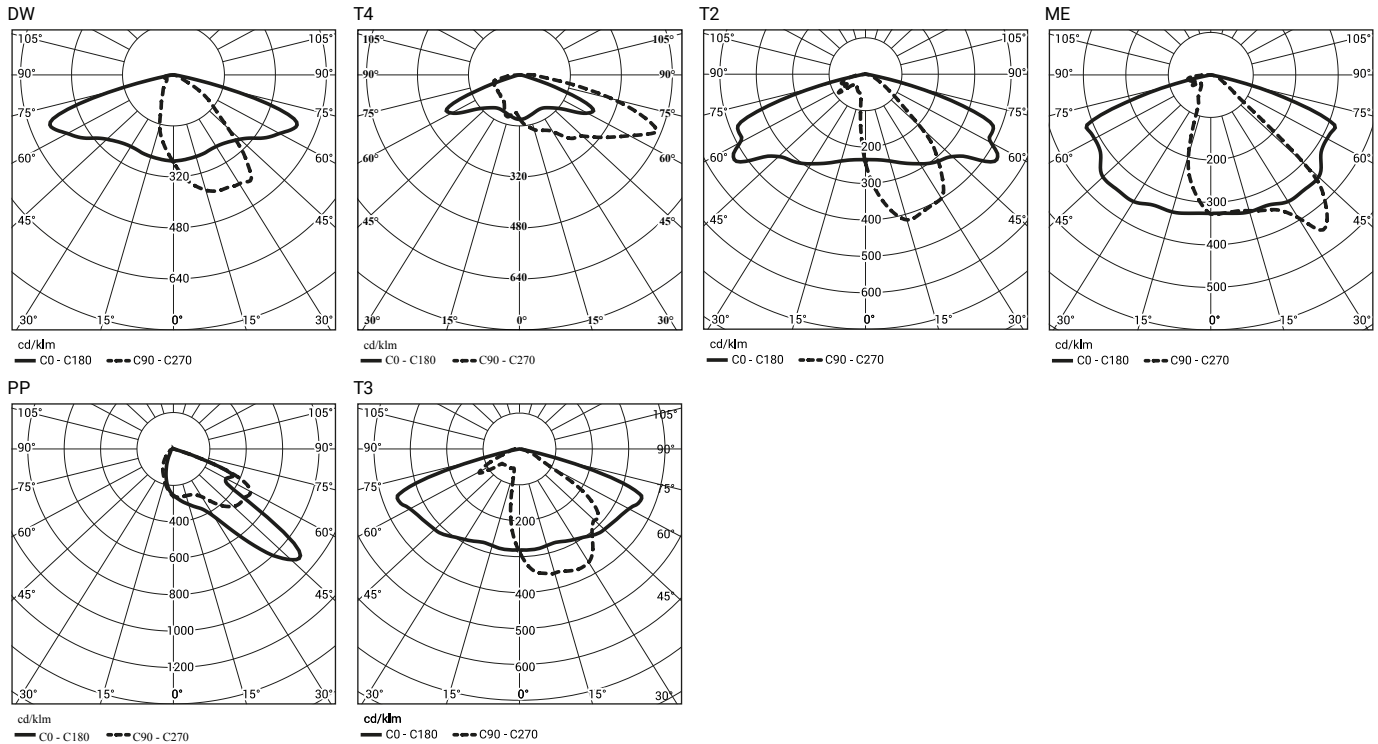
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

- 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,
- Temperature protection of LED module (from overheating) in case of unintentional luminaire operation during the,
- Regulation of power / luminous flux – the option of setting another value than the catalogue in the range of 30-100% of nominal one,

ACCEPTABLE QUANTITY OF LUMINAIRES ON ONE CIRCUIT

Overcurrent switches MCB type B or C

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

Fuse – type gG and GL

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