



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
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
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).

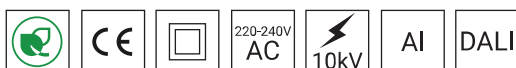


TABLE OF VARIANTS

Code	Symbol	LED power	Luminaire power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux ¹	Luminaire luminous flux ¹	Luminous efficacy ¹	Unit volume	Inrush current	Net weight
2221033/1/... ²	URSA LED ALFA 48	48 W	55 W	700 mA	2700 K	8150 lm	7450 lm	135 lm/W	0.028 m³	55A / 200µs	8 kg
2221033/3/... ²	URSA LED ALFA 48	48 W	55 W	700 mA	3500 K	8650 lm	7900 lm	144 lm/W	0.028 m³	55A / 200µs	8 kg
2221033/4/... ²	URSA LED ALFA 48	48 W	55 W	700 mA	4000 K	9150 lm	8350 lm	152 lm/W	0.028 m³	55A / 200µs	8 kg
2221033/6/... ²	URSA LED ALFA 48	48 W	55 W	700 mA	5000 K	9150 lm	8350 lm	152 lm/W	0.028 m³	55A / 200µs	8 kg
2221034/1/... ²	URSA LED ALFA 60	60 W	68 W	830 mA	2700 K	9300 lm	8500 lm	127 lm/W	0.028 m³	55A / 200µs	8 kg
2221034/3/... ²	URSA LED ALFA 60	60 W	68 W	830 mA	3500 K	9850 lm	9000 lm	134 lm/W	0.028 m³	55A / 200µs	8 kg
2221034/4/... ²	URSA LED ALFA 60	60 W	68 W	830 mA	4000 K	10450 lm	9550 lm	143 lm/W	0.028 m³	55A / 200µs	8 kg
2221034/6/... ²	URSA LED ALFA 60	60 W	68 W	830 mA	5000 K	10450 lm	9550 lm	143 lm/W	0.028 m³	55A / 200µs	8 kg
2221035/1/... ²	URSA LED ALFA 72	72 W	79 W	1000 mA	2700 K	10700 lm	9800 lm	124 lm/W	0.028 m³	55A / 200µs	8 kg
2221035/3/... ²	URSA LED ALFA 72	72 W	79 W	1000 mA	3500 K	11350 lm	10400 lm	132 lm/W	0.028 m³	55A / 200µs	8 kg
2221035/4/... ²	URSA LED ALFA 72	72 W	79 W	1000 mA	4000 K	12100 lm	11050 lm	140 lm/W	0.028 m³	55A / 200µs	8 kg
2221035/6/... ²	URSA LED ALFA 72	72 W	79 W	1000 mA	5000 K	12100 lm	11050 lm	140 lm/W	0.028 m³	55A / 200µs	8 kg
2221037/1/... ²	URSA LED ALFA 96	96 W	105 W	700 mA	2700 K	16300 lm	14900 lm	142 lm/W	0.037 m³	67A / 210µs	10 kg
2221037/3/... ²	URSA LED ALFA 96	96 W	105 W	700 mA	3500 K	17300 lm	15850 lm	151 lm/W	0.037 m³	67A / 210µs	10 kg
2221037/4/... ²	URSA LED ALFA 96	96 W	105 W	700 mA	4000 K	18300 lm	16750 lm	160 lm/W	0.037 m³	67A / 210µs	10 kg
2221037/6/... ²	URSA LED ALFA 96	96 W	105 W	700 mA	5000 K	18300 lm	16750 lm	160 lm/W	0.037 m³	67A / 210µs	10 kg
2221039/1/... ²	URSA LED ALFA 120	120 W	129 W	830 mA	2700 K	18600 lm	17050 lm	132 lm/W	0.037 m³	67A / 210µs	10 kg
2221039/3/... ²	URSA LED ALFA 120	120 W	129 W	830 mA	3500 K	19700 lm	18050 lm	140 lm/W	0.037 m³	67A / 210µs	10 kg
2221039/4/... ²	URSA LED ALFA 120	120 W	129 W	830 mA	4000 K	20900 lm	19150 lm	148 lm/W	0.037 m³	67A / 210µs	10 kg
2221039/6/... ²	URSA LED ALFA 120	120 W	129 W	830 mA	5000 K	20900 lm	19150 lm	148 lm/W	0.037 m³	67A / 210µs	10 kg
2221041/1/... ²	URSA LED ALFA 144	144 W	154 W	1000 mA	2700 K	21400 lm	19600 lm	127 lm/W	0.037 m³	67A / 210µs	10 kg
2221041/3/... ²	URSA LED ALFA 144	144 W	154 W	1000 mA	3500 K	22700 lm	20800 lm	135 lm/W	0.037 m³	67A / 210µs	10 kg
2221041/4/... ²	URSA LED ALFA 144	144 W	154 W	1000 mA	4000 K	24200 lm	22150 lm	144 lm/W	0.037 m³	67A / 210µs	10 kg
2221041/6/... ²	URSA LED ALFA 144	144 W	154 W	1000 mA	5000 K	24200 lm	22150 lm	144 lm/W	0.037 m³	67A / 210µs	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

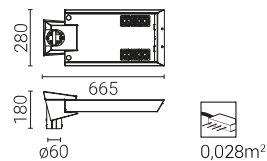
CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

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:

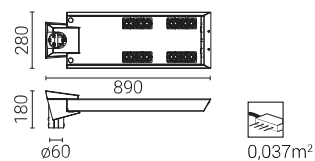
- functional grounding
- LED luminaire with an additional protection device

TECHNICAL DRAWING

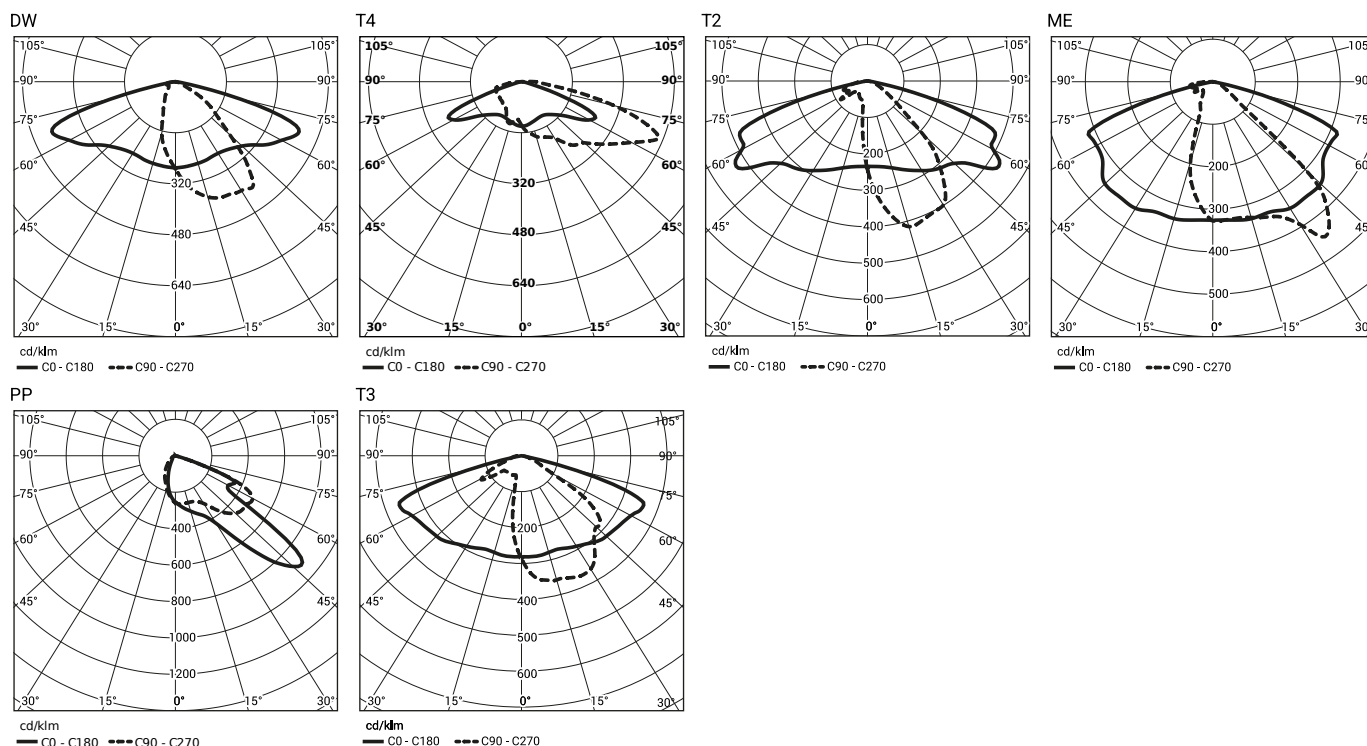
URSA LED ALFA 48W, 60W, 72W



URSA LED ALFA 96W, 120W, 144W



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	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