



## TECHNICAL DATA

<b>Assembly</b>	pole top mounted ø 60 x 95 mm
<b>Application</b>	motorways and expressway, urban roads, pedestrians, parkings
<b>Colour</b>	inox / black
<b>Ingress protection</b>	IP 66 for the optical part and the driver
<b>Material</b>	anodised aluminium alloy
<b>Unit volume</b>	0,028 m <sup>3</sup> (URSA LED 48 - 72 W) 0,037 m <sup>3</sup> (URSA LED 96 - 144 W)
<b>Operating temperature range</b>	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)
<b>Expected useful lifetime</b>	L90B10 - 100 000 h
<b>CRI</b>	>70
<b>Inrush current</b>	55 A / 200 µs (URSA LED 48 - 72) 67 A / 210 µs (URSA LED 96 - 144)
<b>Input voltage frequency</b>	50/60Hz
<b>Power factor</b>	≥0.95
<b>Number of LED</b>	24 (48 W, 60 W, 72 W), 48 (96 W, 120 W, 144 W)
<b>Control system</b>	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 <sup>1</sup>	Luminaire luminous flux <sup>1</sup>	Luminous efficacy <sup>1</sup>	Net weight
2221033/1/... <sup>2</sup>	URSA LED ALFA 48	48 W	55 W	700 mA	2700 K	8150 lm	7450 lm	135 lm/W	8 kg
2221033/3/... <sup>2</sup>	URSA LED ALFA 48	48 W	55 W	700 mA	3500 K	8650 lm	7900 lm	144 lm/W	8 kg
2221033/4/... <sup>2</sup>	URSA LED ALFA 48	48 W	55 W	700 mA	4000 K	9150 lm	8350 lm	152 lm/W	8 kg
2221033/6/... <sup>2</sup>	URSA LED ALFA 48	48 W	55 W	700 mA	5000 K	9150 lm	8350 lm	152 lm/W	8 kg
2221034/1/... <sup>2</sup>	URSA LED ALFA 60	60 W	68 W	830 mA	2700 K	9300 lm	8500 lm	127 lm/W	8 kg
2221034/3/... <sup>2</sup>	URSA LED ALFA 60	60 W	68 W	830 mA	3500 K	9850 lm	9000 lm	134 lm/W	8 kg
2221034/4/... <sup>2</sup>	URSA LED ALFA 60	60 W	68 W	830 mA	4000 K	10450 lm	9550 lm	143 lm/W	8 kg
2221034/6/... <sup>2</sup>	URSA LED ALFA 60	60 W	68 W	830 mA	5000 K	10450 lm	9550 lm	143 lm/W	8 kg
2221035/1/... <sup>2</sup>	URSA LED ALFA 72	72 W	79 W	1000 mA	2700 K	10700 lm	9800 lm	124 lm/W	8 kg
2221035/3/... <sup>2</sup>	URSA LED ALFA 72	72 W	79 W	1000 mA	3500 K	11350 lm	10400 lm	132 lm/W	8 kg
2221035/4/... <sup>2</sup>	URSA LED ALFA 72	72 W	79 W	1000 mA	4000 K	12100 lm	11050 lm	140 lm/W	8 kg
2221035/6/... <sup>2</sup>	URSA LED ALFA 72	72 W	79 W	1000 mA	5000 K	12100 lm	11050 lm	140 lm/W	8 kg
2221037/1/... <sup>2</sup>	URSA LED ALFA 96	96 W	105 W	700 mA	2700 K	16300 lm	14900 lm	142 lm/W	10 kg
2221037/3/... <sup>2</sup>	URSA LED ALFA 96	96 W	105 W	700 mA	3500 K	17300 lm	15850 lm	151 lm/W	10 kg
2221037/4/... <sup>2</sup>	URSA LED ALFA 96	96 W	105 W	700 mA	4000 K	18300 lm	16750 lm	160 lm/W	10 kg
2221037/6/... <sup>2</sup>	URSA LED ALFA 96	96 W	105 W	700 mA	5000 K	18300 lm	16750 lm	160 lm/W	10 kg
2221039/1/... <sup>2</sup>	URSA LED ALFA 120	120 W	129 W	830 mA	2700 K	18600 lm	17050 lm	132 lm/W	10 kg
2221039/3/... <sup>2</sup>	URSA LED ALFA 120	120 W	129 W	830 mA	3500 K	19700 lm	18050 lm	140 lm/W	10 kg
2221039/4/... <sup>2</sup>	URSA LED ALFA 120	120 W	129 W	830 mA	4000 K	20900 lm	19150 lm	148 lm/W	10 kg
2221039/6/... <sup>2</sup>	URSA LED ALFA 120	120 W	129 W	830 mA	5000 K	20900 lm	19150 lm	148 lm/W	10 kg
2221041/1/... <sup>2</sup>	URSA LED ALFA 144	144 W	154 W	1000 mA	2700 K	21400 lm	19600 lm	127 lm/W	10 kg
2221041/3/... <sup>2</sup>	URSA LED ALFA 144	144 W	154 W	1000 mA	3500 K	22700 lm	20800 lm	135 lm/W	10 kg
2221041/4/... <sup>2</sup>	URSA LED ALFA 144	144 W	154 W	1000 mA	4000 K	24200 lm	22150 lm	144 lm/W	10 kg
2221041/6/... <sup>2</sup>	URSA LED ALFA 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. 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

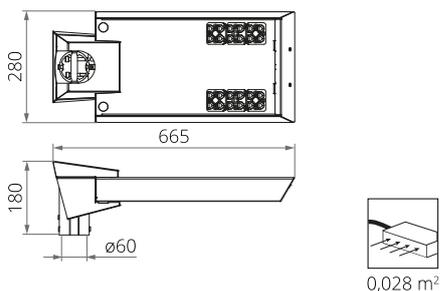
## REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

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:

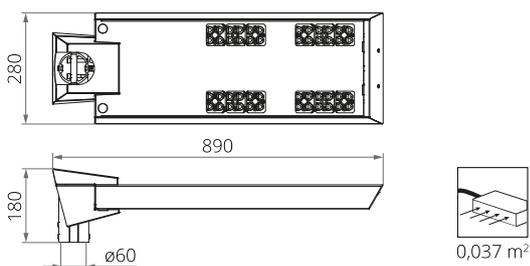
- functional grounding
- LED luminaire with an additional protection device

## TECHNICAL DRAWING

URSA LED ALFA 48W, 60W, 72W

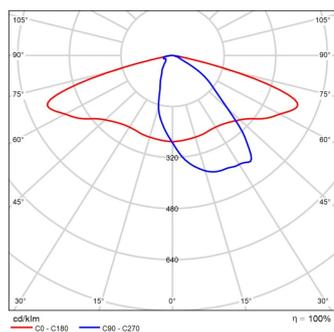


URSA LED ALFA 96W, 120W, 144W

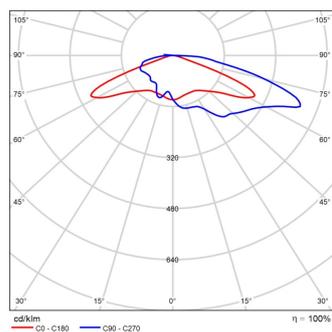


## PHOTOMETRIC CURVES

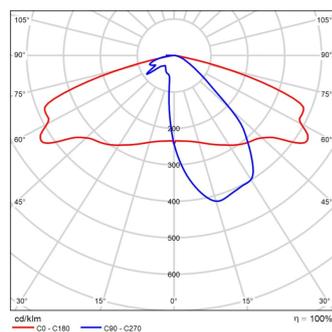
DW



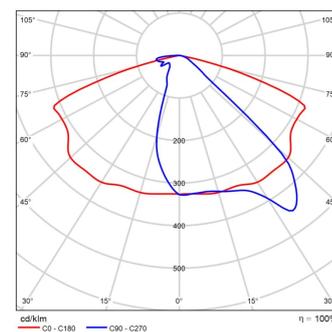
T4



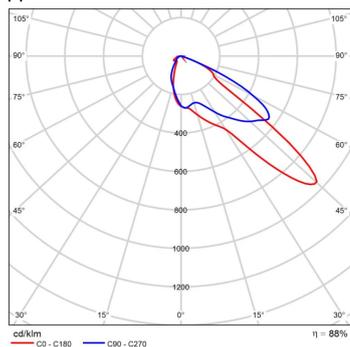
T2



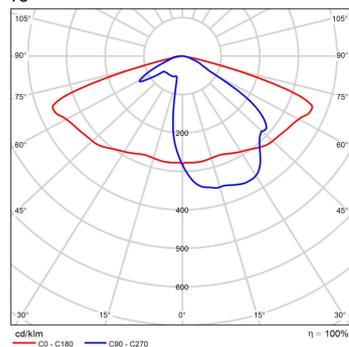
ME



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