

# URSA LED



**Application:** motorways and expressways, urban roads, pedestrians, parkings

**Assembly:** on extension arms with  $\varnothing 60 \times 100$  mm ending

**Luminaire angular adjustment:** in the range from  $-15^\circ$  to  $15^\circ$

**Ingress protection:** IP 66 for the optical part and the driver

**Material:** anodised aluminium alloy

**Colour:** inox / black

**Optical system:** PMMA optics, interchangeable LED module

**Number of LEDs:** 24 for 48W, 60W, 72W; 48 for 96W, 120W, 144W

**Operating temperature range:** from  $-40^\circ\text{C}$  to  $+55^\circ\text{C}$  (for 48 W, 60 W, 72 W, 96 W, 120 W), from  $-40^\circ\text{C}$  to  $+40^\circ\text{C}$  (for 144 W)

**Expected useful lifetime:** L90F10 – 50 000 h, L80F20 – 100 000 h

**CRI:**  $>70$  for 5000K, 4000K;  $>80$  for 3500K

**Corrective factor S/P:** 1,8 for 5000K; 1,45 for 3500K; 1,55 for 4000K

**Input voltage frequency:** 50 - 60Hz

**Power factor:**  $\geq 0.95$

**Inrush current:** : 46A / 250 $\mu\text{s}$  for 48W, 60W, 72W; 53A / 300 $\mu\text{s}$  for 96W, 120W, 144W

Luminaire URSA LED 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 flux <sup>2)</sup>	Luminaire luminous flux <sup>2)</sup>	Luminous efficacy	Unit volume	Luminaire net weight
<b>2220033/3/...</b> <sup>1)</sup>	URSA LED 48	48W	55W	700mA	3500K	7 000lm	6550lm	119lm/W	0,028m <sup>3</sup>	8kg
<b>2220033/4/...</b> <sup>1)</sup>	URSA LED 48	48W	55W	700mA	4000K	7 300lm	6800lm	124lm/W	0,028m <sup>3</sup>	8kg
<b>2220033/6/...</b> <sup>1)</sup>	URSA LED 48	48W	55W	700mA	5000K	8 150lm	7100lm	129lm/W	0,028m <sup>3</sup>	8kg
<b>2220034/3/...</b> <sup>1)</sup>	URSA LED 60	60W	68W	830mA	3500K	8 050lm	7700lm	115lm/W	0,028m <sup>3</sup>	8kg
<b>2220034/4/...</b> <sup>1)</sup>	URSA LED 60	60W	68W	830mA	4000K	8 950lm	8000lm	119lm/W	0,028m <sup>3</sup>	8kg
<b>2220034/6/...</b> <sup>1)</sup>	URSA LED 60	60W	68W	830mA	5000K	9 350lm	8400lm	119lm/W	0,028m <sup>3</sup>	8kg
<b>2220035/3/...</b> <sup>1)</sup>	URSA LED 72	72W	80W	1000mA	3500K	9 400lm	8950lm	112lm/W	0,028m <sup>3</sup>	8kg
<b>2220035/4/...</b> <sup>1)</sup>	URSA LED 72	72W	80W	1000mA	4000K	10 450lm	9300lm	116lm/W	0,028m <sup>3</sup>	8kg
<b>2220035/6/...</b> <sup>1)</sup>	URSA LED 72	72W	80W	1000mA	5000K	10 950lm	9750lm	122lm/W	0,028m <sup>3</sup>	8kg
<b>2220037/3/...</b> <sup>1)</sup>	URSA LED 96	96W	105W	700mA	3500K	14 050lm	13100lm	125lm/W	0,037m <sup>3</sup>	10kg
<b>2220037/4/...</b> <sup>1)</sup>	URSA LED 96	96W	105W	700mA	4000K	14 560lm	13550lm	129lm/W	0,037m <sup>3</sup>	10kg
<b>2220037/6/...</b> <sup>1)</sup>	URSA LED 96	96W	105W	700mA	5000K	16 350lm	14250lm	136lm/W	0,037m <sup>3</sup>	10kg
<b>2220039/3/...</b> <sup>1)</sup>	URSA LED 120	120W	129W	830mA	3500K	16 100lm	15450lm	120lm/W	0,037m <sup>3</sup>	10kg
<b>2220039/4/...</b> <sup>1)</sup>	URSA LED 120	120W	129W	830mA	4000K	17 850lm	15950lm	124lm/W	0,037m <sup>3</sup>	10kg
<b>2220039/6/...</b> <sup>1)</sup>	URSA LED 120	120W	129W	830mA	5000K	18 750lm	16750lm	130lm/W	0,037m <sup>3</sup>	10kg
<b>2220041/3/...</b> <sup>1)</sup>	URSA LED 144	144W	154W	1000mA	3500K	18 850lm	17950lm	117lm/W	0,037m <sup>3</sup>	10kg
<b>2220041/4/...</b> <sup>1)</sup>	URSA LED 144	144W	154W	1000mA	4000K	20 850lm	18600lm	121lm/W	0,037m <sup>3</sup>	10kg
<b>2220041/6/...</b> <sup>1)</sup>	URSA LED 144	144W	154W	1000mA	5000K	21 900lm	19500lm	127lm/W	0,037m <sup>3</sup>	10kg

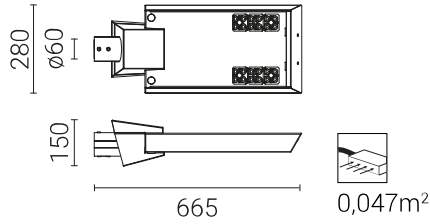
1) Symbol of chosen optical system eg. **2220033/6/T2** is URSA LED 48 5000K with T2 optical system

2) tolerance +/- 3% due to LEDs accuracy

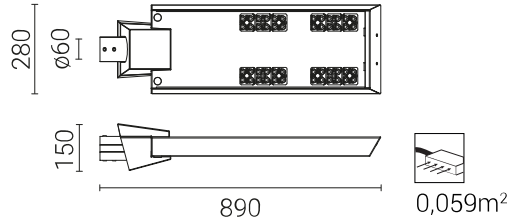
**Directive:** 2014/35/UE (Official Journal of the UE L 96/357 29.03.2014), 2014/30/UE (Official Journal of the UE L 96/79 29.03.2014), 2011/65/UE, 2009/125/EC

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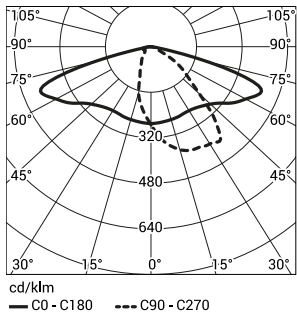
URSA LED 48W, 60W, 72W



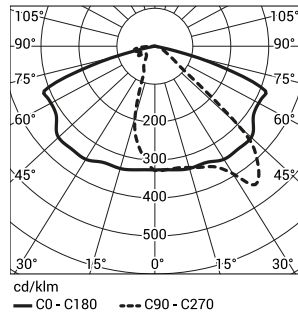
URSA LED 96W, 120W, 144W



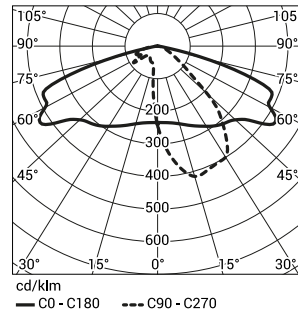
DW



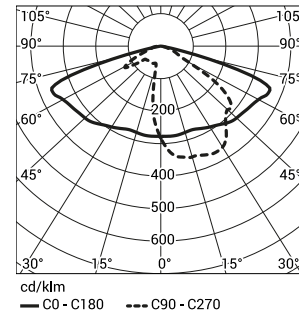
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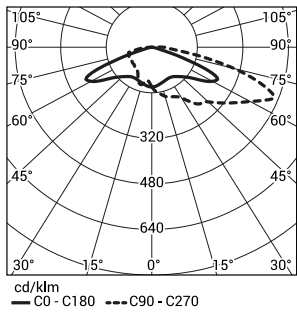
T2



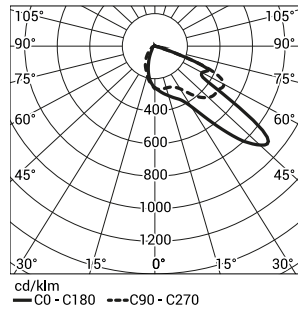
T3



T4



PP



## Luminaire URSA LED 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 URSA LED on one circuit, protected by:

### 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	19	15	19	24