



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
Control system	Luminaire has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1- 10V).

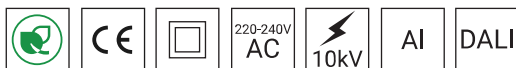


TABLE OF TYPES

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
2221033/1/... ²	URSA LED ALFA 48	48 W	55 W	700 mA	2700 K	7050 lm	6450 lm	118 lm/W	0.028 m ³	8 kg
2221033/3/... ²	URSA LED ALFA 48	48 W	55 W	700 mA	3500 K	7350 lm	6800 lm	124 lm/W	0.028 m ³	8 kg
2221033/4/... ²	URSA LED ALFA 48	48 W	55 W	700 mA	4000 K	8400 lm	7650 lm	139 lm/W	0.028 m ³	8 kg
2221033/6/... ²	URSA LED ALFA 48	48 W	55 W	700 mA	5000 K	8450 lm	7700 lm	140 lm/W	0.028 m ³	8 kg
2221034/1/... ²	URSA LED ALFA 60	60 W	68 W	830 mA	2700 K	8150 lm	7450 lm	112 lm/W	0.028 m ³	8 kg
2221034/3/... ²	URSA LED ALFA 60	60 W	68 W	830 mA	3500 K	8500 lm	7800 lm	117 lm/W	0.028 m ³	8 kg
2221034/4/... ²	URSA LED ALFA 60	60 W	68 W	830 mA	4000 K	9650 lm	8850 lm	133 lm/W	0.028 m ³	8 kg
2221034/6/... ²	URSA LED ALFA 60	60 W	68 W	830 mA	5000 K	9850 lm	9000 lm	135 lm/W	0.028 m ³	8 kg
2221035/1/... ²	URSA LED ALFA 72	72 W	79 W	1000 mA	2700 K	9450 lm	8650 lm	110 lm/W	0.028 m ³	8 kg
2221035/3/... ²	URSA LED ALFA 72	72 W	79 W	1000 mA	3500 K	9900 lm	9100 lm	116 lm/W	0.028 m ³	8 kg
2221035/4/... ²	URSA LED ALFA 72	72 W	79 W	1000 mA	4000 K	11250 lm	10300 lm	131 lm/W	0.028 m ³	8 kg
2221035/6/... ²	URSA LED ALFA 72	72 W	79 W	1000 mA	5000 K	11450 lm	10450 lm	122 lm/W	0.028 m ³	8 kg
2221037/1/... ²	URSA LED ALFA 96	96 W	105 W	700 mA	2700 K	14100 lm	12900 lm	123 lm/W	0.037 m ³	10 kg
2221037/3/... ²	URSA LED ALFA 96	96 W	105 W	700 mA	3500 K	14700 lm	13600 lm	130 lm/W	0.037 m ³	10 kg
2221037/4/... ²	URSA LED ALFA 96	96 W	105 W	700 mA	4000 K	16800 lm	15300 lm	146 lm/W	0.037 m ³	10 kg
2221037/6/... ²	URSA LED ALFA 96	96 W	105 W	700 mA	5000 K	16900 lm	15400 lm	147 lm/W	0.037 m ³	10 kg
2221039/1/... ²	URSA LED ALFA 120	120 W	129 W	830 mA	2700 K	16300 lm	14900 lm	116 lm/W	0.037 m ³	10 kg
2221039/3/... ²	URSA LED ALFA 120	120 W	129 W	830 mA	3500 K	17000 lm	15600 lm	121 lm/W	0.037 m ³	10 kg
2221039/4/... ²	URSA LED ALFA 120	120 W	129 W	830 mA	4000 K	19300 lm	17700 lm	138 lm/W	0.037 m ³	10 kg
2221039/6/... ²	URSA LED ALFA 120	120 W	129 W	830 mA	5000 K	19700 lm	18000 lm	140 lm/W	0.037 m ³	10 kg
2221041/1/... ²	URSA LED ALFA 144	144 W	154 W	1000 mA	2700 K	18900 lm	17300 lm	113 lm/W	0.037 m ³	10 kg
2221041/3/... ²	URSA LED ALFA 144	144 W	154 W	1000 mA	3500 K	19800 lm	18200 lm	119 lm/W	0.037 m ³	10 kg
2221041/4/... ²	URSA LED ALFA 144	144 W	154 W	1000 mA	4000 K	22500 lm	20600 lm	134 lm/W	0.037 m ³	10 kg
2221041/6/... ²	URSA LED ALFA 144	144 W	154 W	1000 mA	5000 K	22900 lm	20900 lm	136 lm/W	0.037 m ³	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, 2009/125/EC

STANDARDS: PN-EN 60598-1: 2015, 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

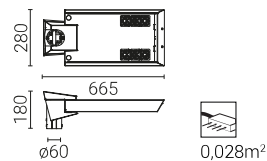
CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

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:

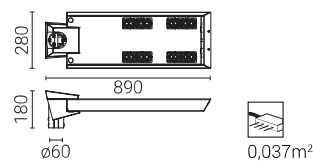
- functional grounding
- LED luminaire with an additional protection device

TECHNICAL DRAWING

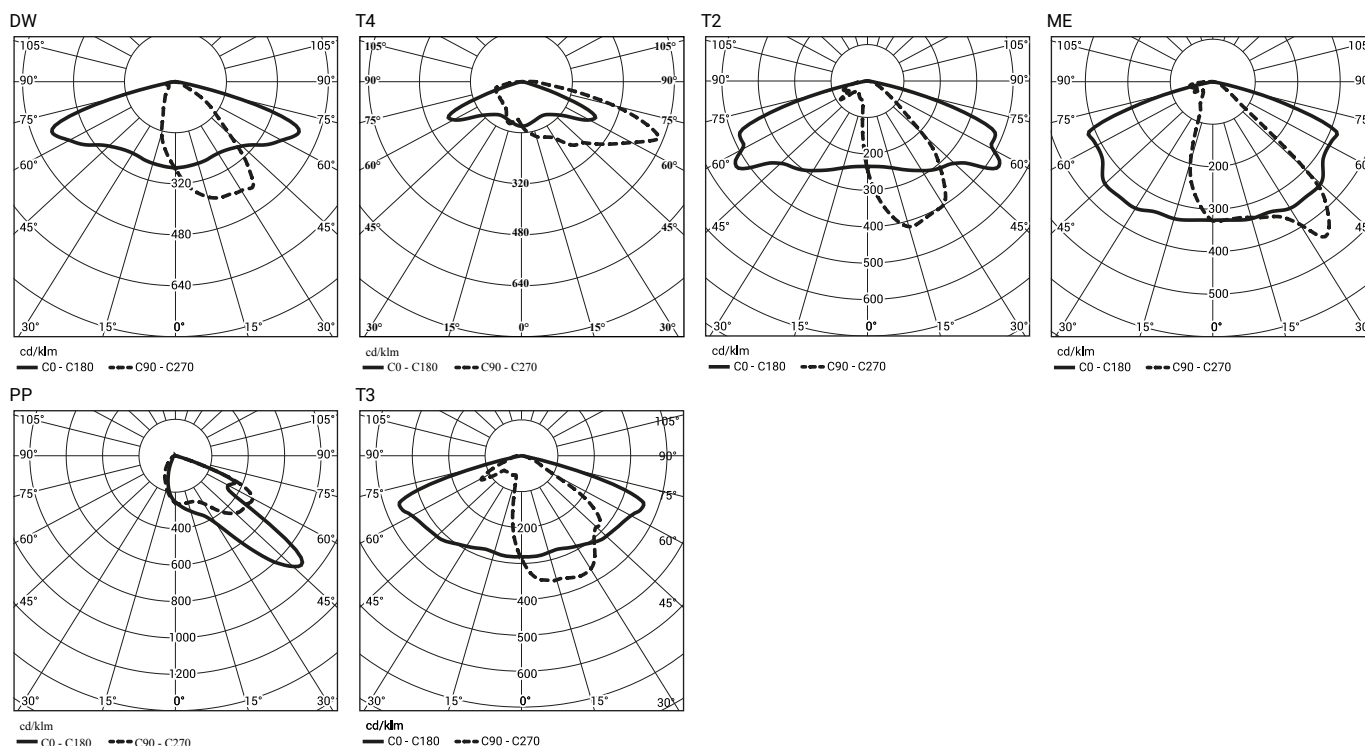
URSA LED ALFA 48W, 60W, 72W



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,
- 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,

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