



TECHNICAL DATA

Application	urban roads, residential roads (internal), surrounding office buildings, parks, pedestrians
Colour	inox / grey
Ingress protection	IP 66 for the optical part and the driver
Optical system	PMMA optics, interchangeable LED module
Material	anodised aluminium alloy
Unit volume	0.5 m ³ (CUT-3 LED) 0.7 m ³ (CUT-4 LED) 1 m ³ (CUT-5 LED) 1.2 m ³ (CUT-6 LED) 1.4 m ³ (CUT-7 LED) 1.6 m ³ (CUT-8 LED)
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Inrush current	18 A / 280 μs (CUT LED 12-36) 46 A / 250 μs (CUT LED 48-72)
Input voltage frequency	50/60Hz
Power factor	≥0,95
Number of LED	12 (12 W, 24 W, 36 W), 24 (48 W, 72 W)
Control system	LED lighting set has the possibility to connect to an external control system via DALI interface (optionally via analog signal 1-10V).



TABLE OF VARIANTS

Code	Symbol	Height of the column [H]	LED power	Luminaire power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux ¹	Luminaire luminous flux ¹	Luminous efficacy ¹	Concrete footing / reinforcement basket type	Net weight
216227/1/... ²	CUT-3 LED 24	3 m	12 W	14 W	350 mA	2700 K	2250 lm	2050 lm	146 lm/W	B-50 / Z-50	31 kg
216227/3/... ²	CUT-3 LED 24	3 m	12 W	14 W	350 mA	3500 K	2400 lm	2200 lm	157 lm/W	B-50 / Z-50	31 kg
216227/4/... ²	CUT-3 LED 24	3 m	12 W	14 W	350 mA	4000 K	2550 lm	2350 lm	168 lm/W	B-50 / Z-50	31 kg
216227/6/... ²	CUT-3 LED 24	3 m	12 W	14 W	350 mA	5000 K	2550 lm	2350 lm	168 lm/W	B-50 / Z-50	31 kg
216230/1/... ²	CUT-3 LED 24	3 m	24 W	28 W	700 mA	2700 K	4050 lm	3550 lm	127 lm/W	B-50 / Z-50	31 kg
216230/3/... ²	CUT-3 LED 24	3 m	24 W	28 W	700 mA	3500 K	4350 lm	3800 lm	136 lm/W	B-50 / Z-50	31 kg
216230/4/... ²	CUT-3 LED 24	3 m	24 W	28 W	700 mA	4000 K	4550 lm	4000 lm	143 lm/W	B-50 / Z-50	31 kg
216230/6/... ²	CUT-3 LED 24	3 m	24 W	28 W	700 mA	5000 K	4550 lm	4000 lm	143 lm/W	B-50 / Z-50	31 kg
216232/1/... ²	CUT-3 LED 36	3 m	36 W	40 W	1000 mA	2700 K	5450 lm	4800 lm	120 lm/W	B-50 / Z-50	31 kg
216232/3/... ²	CUT-3 LED 36	3 m	36 W	40 W	1000 mA	3500 K	5800 lm	5100 lm	128 lm/W	B-50 / Z-50	31 kg
216232/4/... ²	CUT-3 LED 36	3 m	36 W	40 W	1000 mA	4000 K	6150 lm	5400 lm	135 lm/W	B-50 / Z-50	31 kg
216232/6/... ²	CUT-3 LED 36	3 m	36 W	40 W	1000 mA	5000 K	6150 lm	5400 lm	135 lm/W	B-50 / Z-50	31 kg
216327/1/... ²	CUT-4 LED 24	4 m	12 W	14 W	350 mA	2700 K	2250 lm	2050 lm	146 lm/W	B-50 / Z-50	37,5 kg
216327/3/... ²	CUT-4 LED 24	4 m	12 W	14 W	350 mA	3500 K	2400 lm	2200 lm	157 lm/W	B-50 / Z-50	37,5 kg
216327/4/... ²	CUT-4 LED 24	4 m	12 W	14 W	350 mA	4000 K	2550 lm	2350 lm	168 lm/W	B-50 / Z-50	37,5 kg
216327/6/... ²	CUT-4 LED 24	4 m	12 W	14 W	350 mA	5000 K	2550 lm	2350 lm	168 lm/W	B-50 / Z-50	37,5 kg
216330/1/... ²	CUT-4 LED 24	4 m	24 W	28 W	700 mA	2700 K	4050 lm	3550 lm	127 lm/W	B-50 / Z-50	37,5 kg
216330/3/... ²	CUT-4 LED 24	4 m	24 W	28 W	700 mA	3500 K	4350 lm	3800 lm	136 lm/W	B-50 / Z-50	37,5 kg
216330/4/... ²	CUT-4 LED 24	4 m	24 W	28 W	700 mA	4000 K	4550 lm	4000 lm	143 lm/W	B-50 / Z-50	37,5 kg
216330/6/... ²	CUT-4 LED 24	4 m	24 W	28 W	700 mA	5000 K	4550 lm	4000 lm	143 lm/W	B-50 / Z-50	37,5 kg
216332/1/... ²	CUT-4 LED 36	4 m	36 W	40 W	1000 mA	2700 K	5450 lm	4800 lm	120 lm/W	B-50 / Z-50	37,5 kg
216332/3/... ²	CUT-4 LED 36	4 m	36 W	40 W	1000 mA	3500 K	5800 lm	5100 lm	128 lm/W	B-50 / Z-50	37,5 kg
216332/4/... ²	CUT-4 LED 36	4 m	36 W	40 W	1000 mA	4000 K	6150 lm	5400 lm	135 lm/W	B-50 / Z-50	37,5 kg
216332/6/... ²	CUT-4 LED 36	4 m	36 W	40 W	1000 mA	5000 K	6150 lm	5400 lm	135 lm/W	B-50 / Z-50	37,5 kg
216333/1/... ²	CUT-4 LED 48	4 m	48 W	55 W	700 mA	2700 K	8150 lm	7150 lm	130 lm/W	B-50 / Z-50	37,5 kg
216333/3/... ²	CUT-4 LED 48	4 m	48 W	55 W	700 mA	3500 K	8650 lm	7600 lm	138 lm/W	B-50 / Z-50	37,5 kg
216333/4/... ²	CUT-4 LED 48	4 m	48 W	55 W	700 mA	4000 K	9150 lm	8050 lm	146 lm/W	B-50 / Z-50	37,5 kg
216333/6/... ²	CUT-4 LED 48	4 m	48 W	55 W	700 mA	5000 K	9150 lm	8042 lm	146 lm/W	B-50 / Z-50	37,5 kg

216027/1/... ²	CUT-5 LED 24	5 m	12 W	14 W	350 mA	2700 K	2250 lm	2050 lm	146 lm/W	B-50 / Z-50	42,5 kg
216027/3/... ²	CUT-5 LED 24	5 m	12 W	14 W	350 mA	3500 K	2400 lm	2200 lm	157 lm/W	B-50 / Z-50	42,5 kg
216027/4/... ²	CUT-5 LED 24	5 m	12 W	14 W	350 mA	4000 K	2550 lm	2350 lm	168 lm/W	B-50 / Z-50	42,5 kg
216027/6/... ²	CUT-5 LED 24	5 m	12 W	14 W	350 mA	5000 K	2550 lm	2350 lm	168 lm/W	B-50 / Z-50	42,5 kg
216030/1/... ²	CUT-5 LED 24	5 m	24 W	28 W	700 mA	2700 K	4050 lm	3550 lm	127 lm/W	B-50 / Z-50	42,5 kg
216030/3/... ²	CUT-5 LED 24	5 m	24 W	28 W	700 mA	3500 K	4350 lm	3800 lm	136 lm/W	B-50 / Z-50	42,5 kg
216030/4/... ²	CUT-5 LED 24	5 m	24 W	28 W	700 mA	4000 K	4550 lm	4000 lm	143 lm/W	B-50 / Z-50	42,5 kg
216030/6/... ²	CUT-5 LED 24	5 m	24 W	28 W	700 mA	5000 K	4550 lm	4000 lm	143 lm/W	B-50 / Z-50	42,5 kg
216032/1/... ²	CUT-5 LED 36	5 m	36 W	40 W	1000 mA	2700 K	5450 lm	4800 lm	120 lm/W	B-50 / Z-50	42,5 kg
216032/3/... ²	CUT-5 LED 36	5 m	36 W	40 W	1000 mA	3500 K	5800 lm	5100 lm	128 lm/W	B-50 / Z-50	42,5 kg
216032/4/... ²	CUT-5 LED 36	5 m	36 W	40 W	1000 mA	4000 K	6150 lm	5400 lm	135 lm/W	B-50 / Z-50	42,5 kg
216032/6/... ²	CUT-5 LED 36	5 m	36 W	40 W	1000 mA	5000 K	6150 lm	5400 lm	135 lm/W	B-50 / Z-50	42,5 kg
216033/1/... ²	CUT-5 LED 48	5 m	48 W	55 W	700 mA	2700 K	8150 lm	7150 lm	130 lm/W	B-50 / Z-50	42,5 kg
216033/3/... ²	CUT-5 LED 48	5 m	48 W	55 W	700 mA	3500 K	8650 lm	7600 lm	138 lm/W	B-50 / Z-50	42,5 kg
216033/4/... ²	CUT-5 LED 48	5 m	48 W	55 W	700 mA	4000 K	9150 lm	8050 lm	146 lm/W	B-50 / Z-50	42,5 kg
216033/6/... ²	CUT-5 LED 48	5 m	48 W	55 W	700 mA	5000 K	9150 lm	8042 lm	146 lm/W	B-50 / Z-50	42,5 kg
216633/1/... ²	CUT-6 LED 48	6 m	48 W	55 W	700 mA	2700 K	8150 lm	7150 lm	130 lm/W	B-71, B-70 / Z-71, Z-70	62,5 kg
216633/3/... ²	CUT-6 LED 48	6 m	48 W	55 W	700 mA	3500 K	8650 lm	7600 lm	138 lm/W	B-71, B-70 / Z-71, Z-70	62,5 kg
216633/4/... ²	CUT-6 LED 48	6 m	48 W	55 W	700 mA	4000 K	9150 lm	8050 lm	146 lm/W	B-71, B-70 / Z-71, Z-70	62,5 kg
216633/6/... ²	CUT-6 LED 48	6 m	48 W	55 W	700 mA	5000 K	9150 lm	8042 lm	146 lm/W	B-71, B-70 / Z-71, Z-70	62,5 kg
216635/1/... ²	CUT-6 LED 72	6 m	72 W	79 W	1000 mA	2700 K	10900 lm	9600 lm	122 lm/W	B-71, B-70 / Z-71, Z-70	62,5 kg
216635/3/... ²	CUT-6 LED 72	6 m	72 W	79 W	1000 mA	3500 K	11600 lm	10200 lm	129 lm/W	B-71, B-70 / Z-71, Z-70	62,5 kg
216635/4/... ²	CUT-6 LED 72	6 m	72 W	79 W	1000 mA	4000 K	12300 lm	10800 lm	137 lm/W	B-71, B-70 / Z-71, Z-70	62,5 kg
216635/6/... ²	CUT-6 LED 72	6 m	72 W	79 W	1000 mA	5000 K	12300 lm	10800 lm	137 lm/W	B-71, B-70 / Z-71, Z-70	62,5 kg
216733/1/... ²	CUT-7 LED 48	7 m	48 W	55 W	700 mA	2700 K	8150 lm	7150 lm	130 lm/W	B-71, B-70 / Z-71, Z-70	69,5 kg
216733/3/... ²	CUT-7 LED 48	7 m	48 W	55 W	700 mA	3500 K	8650 lm	7600 lm	138 lm/W	B-71, B-70 / Z-71, Z-70	69,5 kg
216733/4/... ²	CUT-7 LED 48	7 m	48 W	55 W	700 mA	4000 K	9150 lm	8050 lm	146 lm/W	B-71, B-70 / Z-71, Z-70	69,5 kg
216733/6/... ²	CUT-7 LED 48	7 m	48 W	55 W	700 mA	5000 K	9150 lm	8042 lm	146 lm/W	B-71, B-70 / Z-71, Z-70	69,5 kg
216735/1/... ²	CUT-7 LED 72	7 m	72 W	79 W	1000 mA	2700 K	10900 lm	9600 lm	122 lm/W	B-71, B-70 / Z-71, Z-70	69,5 kg
216735/3/... ²	CUT-7 LED 72	7 m	72 W	79 W	1000 mA	3500 K	11600 lm	10200 lm	129 lm/W	B-71, B-70 / Z-71, Z-70	69,5 kg
216735/4/... ²	CUT-7 LED 72	7 m	72 W	79 W	1000 mA	4000 K	12300 lm	10800 lm	137 lm/W	B-71, B-70 / Z-71, Z-70	69,5 kg
216735/6/... ²	CUT-7 LED 72	7 m	72 W	79 W	1000 mA	5000 K	12300 lm	10800 lm	137 lm/W	B-71, B-70 / Z-71, Z-70	69,5 kg
216433/1/... ²	CUT-8 LED 48	8 m	48 W	55 W	700 mA	2700 K	8150 lm	7150 lm	130 lm/W	B-71, B-70 / Z-71, Z-70	76 kg
216433/3/... ²	CUT-8 LED 48	8 m	48 W	55 W	700 mA	3500 K	8650 lm	7600 lm	138 lm/W	B-71, B-70 / Z-71, Z-70	76 kg
216433/4/... ²	CUT-8 LED 48	8 m	48 W	55 W	700 mA	4000 K	9150 lm	8050 lm	146 lm/W	B-71, B-70 / Z-71, Z-70	76 kg
216433/6/... ²	CUT-8 LED 48	8 m	48 W	55 W	700 mA	5000 K	9150 lm	8042 lm	146 lm/W	B-71, B-70 / Z-71, Z-70	76 kg
216435/1/... ²	CUT-8 LED 72	8 m	72 W	79 W	1000 mA	2700 K	10900 lm	9600 lm	122 lm/W	B-71, B-70 / Z-71, Z-70	76 kg
216435/3/... ²	CUT-8 LED 72	8 m	72 W	79 W	1000 mA	3500 K	11600 lm	10200 lm	129 lm/W	B-71, B-70 / Z-71, Z-70	76 kg
216435/4/... ²	CUT-8 LED 72	8 m	72 W	79 W	1000 mA	4000 K	12300 lm	10800 lm	137 lm/W	B-71, B-70 / Z-71, Z-70	76 kg
216435/6/... ²	CUT-8 LED 72	8 m	72 W	79 W	1000 mA	5000 K	12300 lm	10800 lm	137 lm/W	B-71, B-70 / Z-71, Z-70	76 kg

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

2) symbol of chosen optical system eg. 216230/6/T2 is CUT-3 LED 24 5000K with T2 optical system

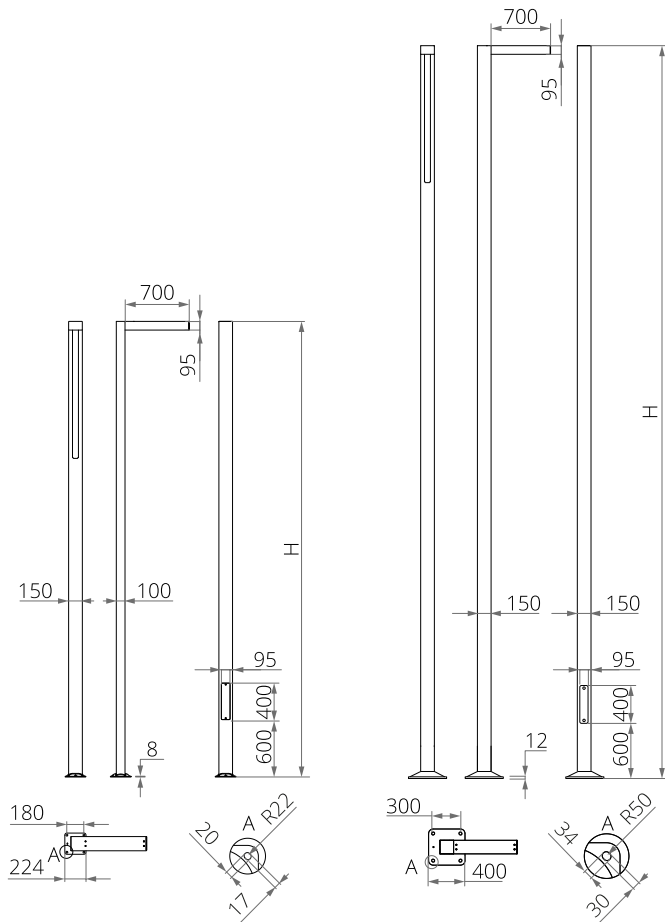
DIRECTIVES AND STANDARDS

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)

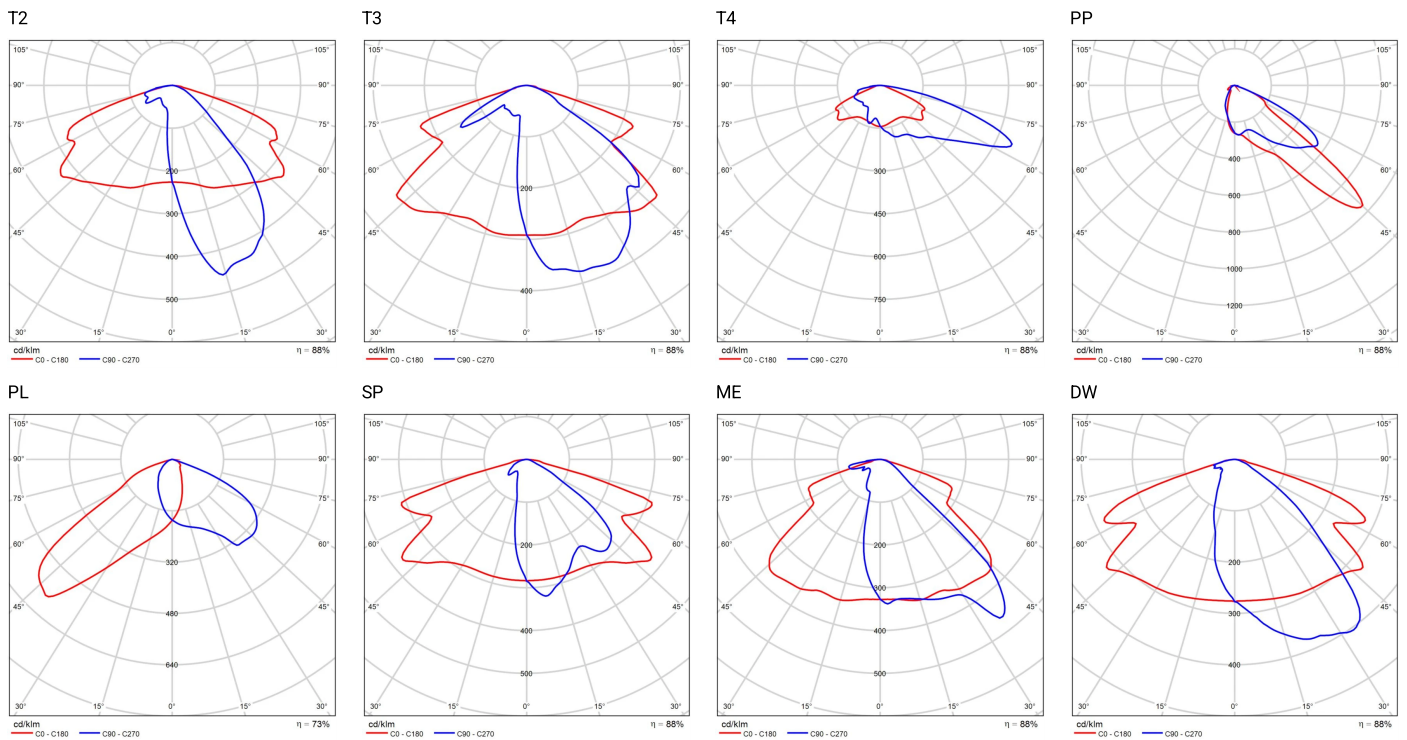
STANDARDS: PN-EN IEC 60598-1: 2021-7, PN-EN 60598-2-3: 2006, PN-EN 60529: 2003, PN-EN 62262: 2003, PN-EN 62471:2010, PN-EN 55015: 2019, PN-EN 61547: 2009, PN-EN 61000-3-2: 2019 , PN-EN 61000-3-3: 2014

Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

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,
- 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,

ACCEPTABLE QUANTITY OF LUMINAIRES ON ONE CIRCUIT

Overcurrent switches MCB type B or C

Lighting sets	Typ	2 A	4 A	6 A	10 A	16 A	20 A	25 A
CUT LED 24 W, 36 W	B	3	6	10	16	26	32	40
	C	3	10	16	27	44	54	67
CUT LED 48 W, 72 W	B	1	2	4	6	11	13	17
	C	1	4	6	11	18	22	28

Fuse – type gG and GL

Lighting sets	2 A	4 A	6 A	10 A	16 A	20 A	25 A
CUT LED 24 W, 36 W	1	10	19	25	50	68	97
CUT LED 48 W, 72 W	0	4	8	11	21	29	42

ACCEPTABLE HEIGHT

CUT LED-3/4/5 Acceptable height of the LED lighting set

Field category	I zone Vref. = 22 m/s	I & III zone, up to 450m a.s.l. Vref. = 24 m/s	II zone Vref. = 26 m/s	III zone up to 755m a.s.l. Vref. = 28 m/s
I	6	5,5	5	4,5
II	6	5,5	5,5	5
III	6	6	5,5	5,5
IV	6	6	6	6

CUT LED-6/7/8 Acceptable height of the LED lighting set

Field category	I zone Vref. = 22 m/s	I & III zone, up to 450m a.s.l. Vref. = 24 m/s	II zone Vref. = 26 m/s	III zone up to 755m a.s.l. Vref. = 28 m/s
I	7,5	7	6,5	6
II	8	7,5	7	6,5
III	8	8	7,5	7
IV	8	8	8	7,5