

TECHNICAL DATA

Assembly	on extension arms with $\varnothing$ 60 x 100 mm ending
Application	urban roads, residential roads (internal), pedestrians, parkings
Colour	inox / black
Ingress protection	IP 66 for the optical part and the driver
Optical system	PMMA optics, interchangeable LED module, tempered glass diffuser
Material	anodised aluminium alloy
Unit volume	0,01 m ³
Operating temperature range	from -40°C to +40°C
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Inrush current	18 A / 280 μ s (CUDDLE MINI LED 24 - 36) 98 A / 120 μ s (CUDDLE MINI LED 48 - 60)
Input voltage frequency	50/60Hz
Power factor	≥ 0.95
Number of LED	16
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	Net weight
222730/1/... ²	CUDDLE MINI LED 24	24 W	26 W	250 mA	2700 K	4450 lm	3250 lm	125 lm/W	3.7 kg
222730/3/... ²	CUDDLE MINI LED 24	24 W	26 W	250 mA	3500 K	4650 lm	3400 lm	131 lm/W	3.7 kg
222730/4/... ²	CUDDLE MINI LED 24	24 W	26 W	250 mA	4000 K	4800 lm	3500 lm	135 lm/W	3.7 kg
222730/6/... ²	CUDDLE MINI LED 24	24 W	26 W	250 mA	5000 K	4750 lm	3450 lm	133 lm/W	3.7 kg
222732/1/... ²	CUDDLE MINI LED 36	36 W	39 W	375 mA	2700 K	6550 lm	4800 lm	123 lm/W	3.7 kg
222732/3/... ²	CUDDLE MINI LED 36	36 W	39 W	375 mA	3500 K	6850 lm	5000 lm	128 lm/W	3.7 kg
222732/4/... ²	CUDDLE MINI LED 36	36 W	39 W	375 mA	4000 K	7050 lm	5150 lm	132 lm/W	3.7 kg
222732/6/... ²	CUDDLE MINI LED 36	36 W	39 W	375 mA	5000 K	6950 lm	5050 lm	129 lm/W	3.7 kg
222733/1/... ²	CUDDLE MINI LED 48	48 W	54 W	500 mA	2700 K	8550 lm	6250 lm	116 lm/W	3.7 kg
222733/3/... ²	CUDDLE MINI LED 48	48 W	54 W	500 mA	3500 K	8950 lm	6500 lm	120 lm/W	3.7 kg
222733/4/... ²	CUDDLE MINI LED 48	48 W	54 W	500 mA	4000 K	9200 lm	6700 lm	124 lm/W	3.7 kg
222733/6/... ²	CUDDLE MINI LED 48	48 W	54 W	500 mA	5000 K	9050 lm	6600 lm	122 lm/W	3.7 kg
222734/1/... ²	CUDDLE MINI LED 60	60 W	67 W	625 mA	2700 K	10450 lm	7650 lm	114 lm/W	3.7 kg
222734/3/... ²	CUDDLE MINI LED 60	60 W	67 W	625 mA	3500 K	10950 lm	7950 lm	119 lm/W	3.7 kg
222734/4/... ²	CUDDLE MINI LED 60	60 W	67 W	625 mA	4000 K	11250 lm	8200 lm	122 lm/W	3.7 kg
222734/6/... ²	CUDDLE MINI LED 60	60 W	67 W	625 mA	5000 K	11050 lm	8050 lm	120 lm/W	3.7 kg

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

2) symbol of chosen optical system eg. 222733/6/T2 is CUDDLE MINI LED 48 5000K with T2 optical system

*For the CUDDLE MINI LED luminaire with P2 and PL optics it is possible to choose an additional light colour temperature: 5700K. The product code is then supplemented with the designation '/7'. Example: 222733/7/P2 -CUDDLE MINI LED 48W 5700K luminaire with P2 optics

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

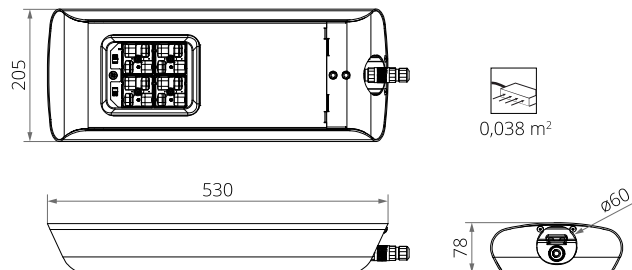
Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

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:

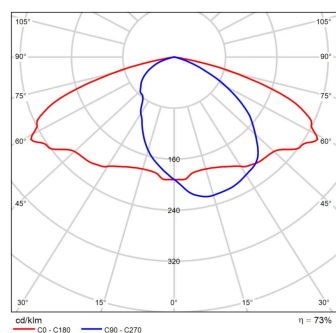
- functional grounding
- LED luminaire with an additional protection device

TECHNICAL DRAWING

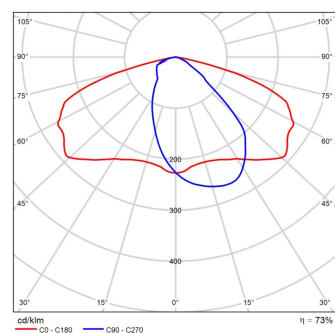


PHOTOMETRIC CURVES

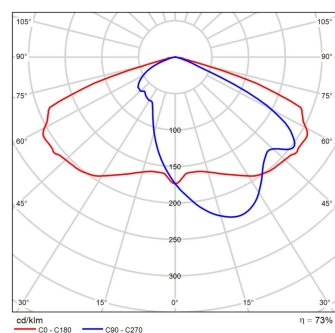
DW



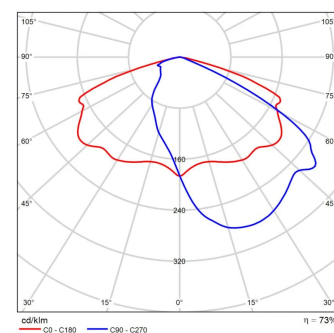
LN



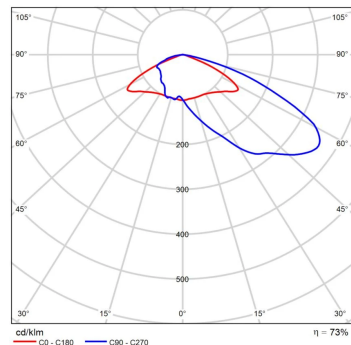
T3



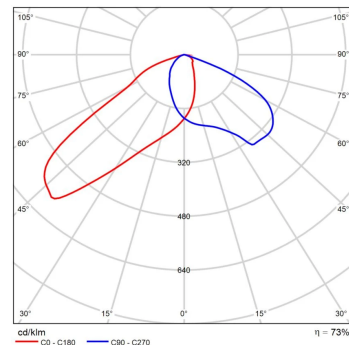
LW



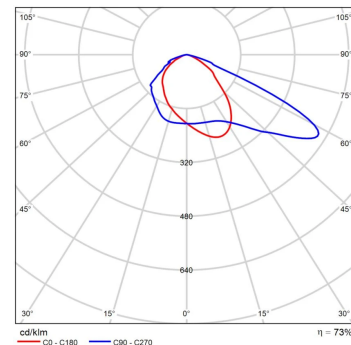
T4



PL



P2



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
CUDDLE MINI LED 24, 36W	B	4	7	12	18	30	37	46
	C	4	12	18	31	51	62	78
CUDDLE MINI LED 48W	B	1	2	4	6	10	12	15
	C	1	4	6	10	17	20	26
CUDDLE MINI LED 60W	B	1	2	4	6	10	12	15
	C	1	4	6	10	17	20	26

Fuse – type gG and GL

Luminaire	2A	4A	6A	10A	16A	20A	25A
CUDDLE MINI LED 24, 36W	1	10	20	26	52	71	101
CUDDLE MINI LED 48W	0	4	8	11	22	31	44
CUDDLE MINI LED 60W	0	2	4	5	10	14	20