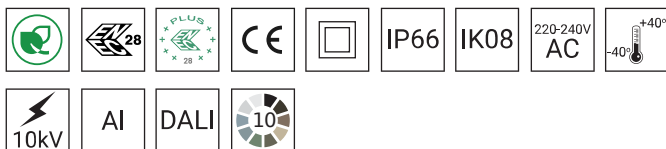




## TECHNICAL DATA

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

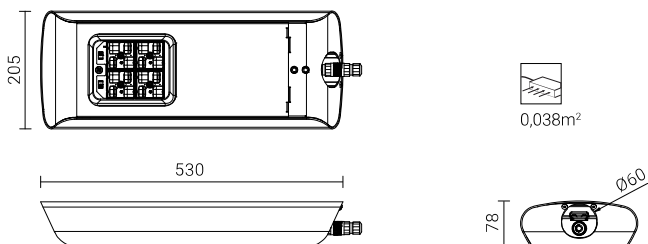
Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

## REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

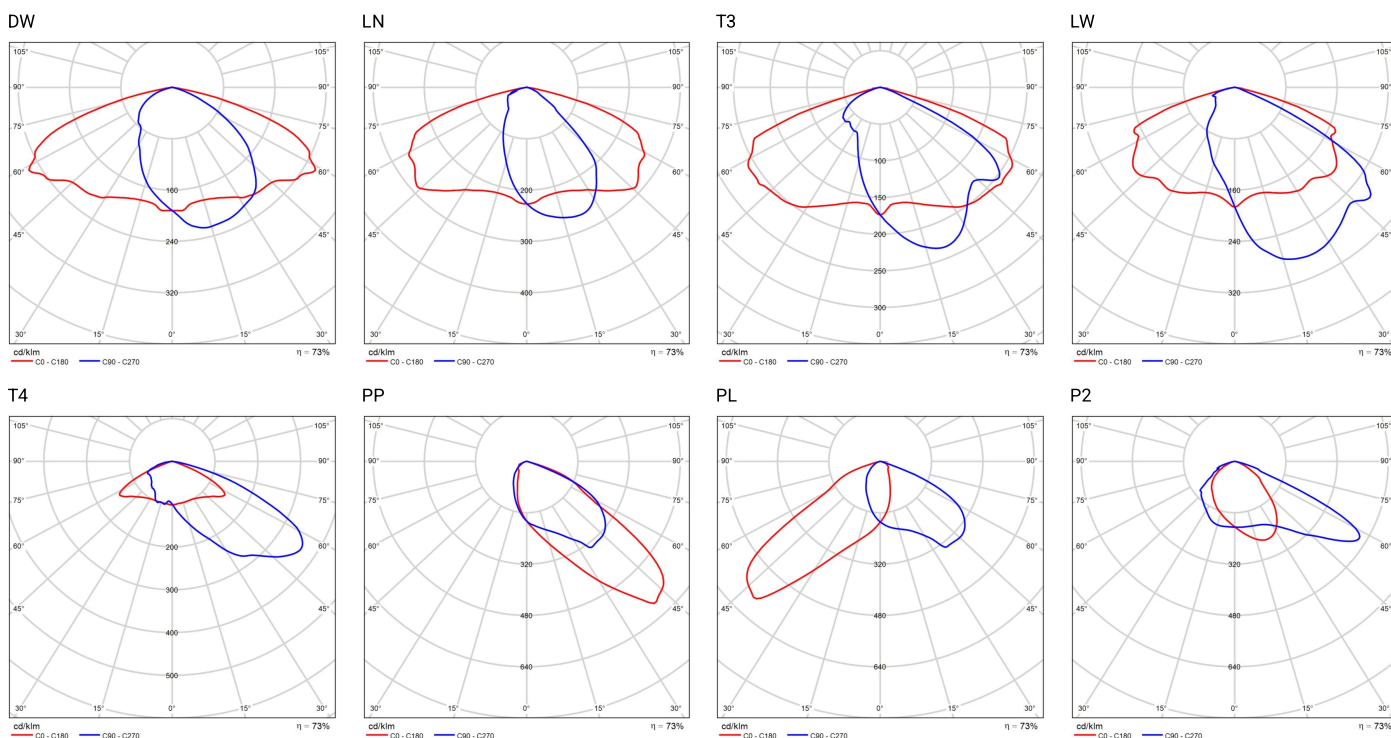
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

- functional grounding
- LED luminaire with an additional protection device

## TECHNICAL DRAWING



## PHOTOMETRIC CURVES



## 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