



TECHNICAL DATA

Application	motorways and expressway, urban roads, residential roads (internal), pedestrians, parkings
Assembly	on extension arms with ø 60 x 100 mm ending
Colour	inox / black
Ingress protection	IP 66 for the optical part and the driver
Optical system	PMMA optics, interchangeable LED module, PC-UV diffuser
Material	anodised aluminium alloy
Unit volume	-
Operating temperature range	from -40°C to +40°C
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Inrush current	43 A / 260 µs (CUDDLE II LED 48 - 72) 77 A / 150 µs (CUDDLE II LED 96 - 144) 11,5 A / 1320 µs (CUDDLE II LED 192)
Input voltage frequency	50/60Hz
Power factor	≥0.95
Number of LED	24
Control system	Luminaire 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 ¹	Luminaire luminous flux ¹	Luminous efficacy ¹	Net weight
2223035/4/... ²	CUDDLE II LED 72	72 W	79 W	1000 mA	4000 K	12100 lm	10300 lm	130 lm/W	5.2 kg

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

2) symbol of chosen optical system eg. 2223033/6/T2 is CUDDLE II LED 48 5000K with T2 optical system

*For the CUDDLE II 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: 2223033/7/P2 -CUDDLE II 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, PN-EN 62722-2-1 (tq=40°C)

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:

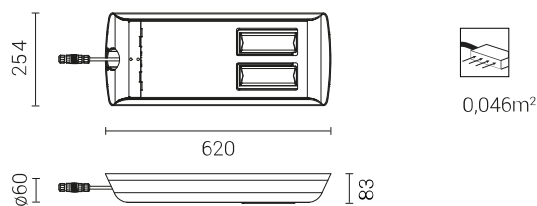
- functional grounding
- LED luminaire with an additional protection device

CUDDLE II LED 72

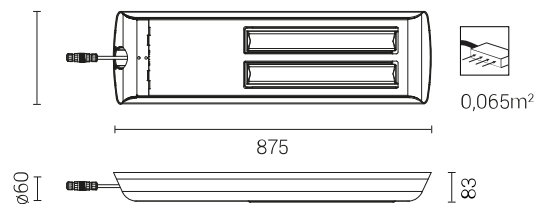


TECHNICAL DRAWING

CUDDLE II LED 48W, 60W, 72W

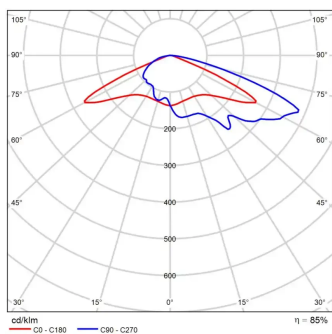


CUDDLE II LED 96W, 120W, 144W, 192W

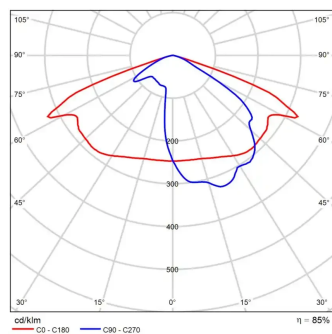


PHOTOMETRIC CURVES

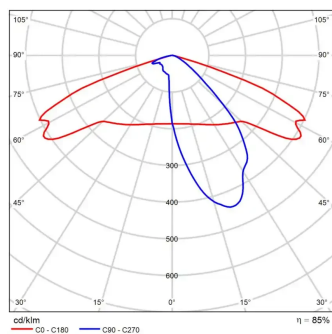
T4



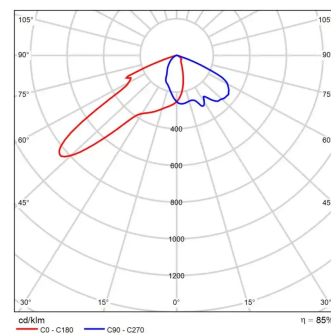
T3



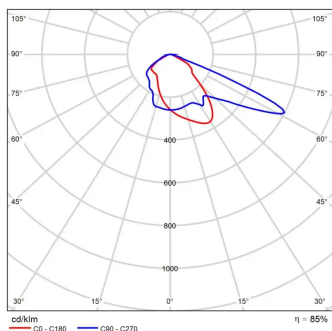
T2



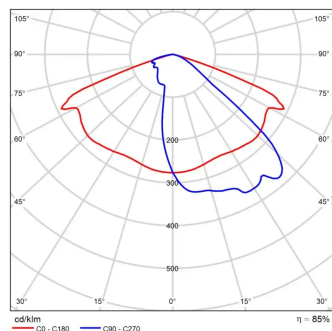
PL



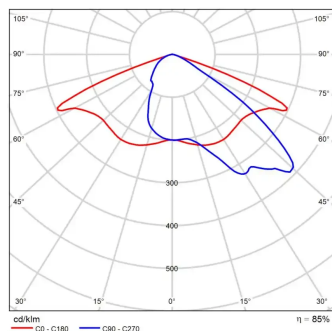
P2



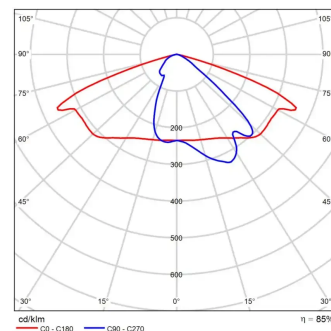
ME



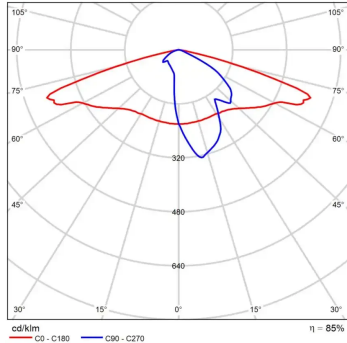
LW



LM



DW



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 II LED 48, 60, 72W	B	1	2	4	6	10	12	15
	C	1	4	6	10	17	20	26
CUDDLE II LED 96, 120, 144W	B	1	2	3	5	9	11	14
	C	1	3	5	9	15	18	23
CUDDLE II LED 192W	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 II LED 48, 60, 72W	0	4	8	11	22	31	44
CUDDLE II LED 96, 120, 144W	0	3	6	8	16	22	29
CUDDLE II LED 192W	1	3	5	8	14	17	22

CHROMATICITY

Chromaticity	x	y
2700K	0,4582	0,4099
3500K	0,4080	0,3916
4000K	0,3825	0,3798
5000K	0,3451	0,3554

PHOTOMETRIC CODE

2700K	727/559
3500K	735/559
4000K	740/559
5000K	750/559