CUDDLE II LED 60

TECHNICAL DATA

Application	motorways and expressway, urban roads, residential roads (internal), pedestrians, parkings
Assembly	on extension arms with ⌀ 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
2223034/6/...[2]	CUDDLE II LED 60	60 W	67 W	830 mA	5000 K	10450 lm	8900 lm	133 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

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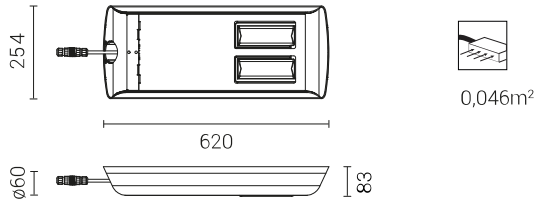
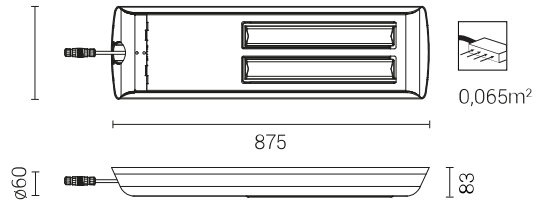
CUDDLE II LED 60

TECHNICAL DRAWING

CUDDLE II LED 48W, 60W, 72W

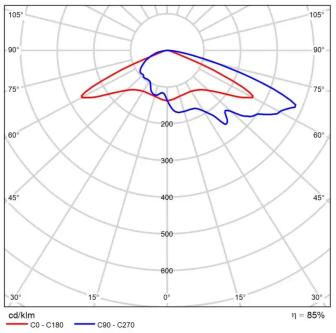


CUDDLE II LED 96W, 120W, 144W, 192W

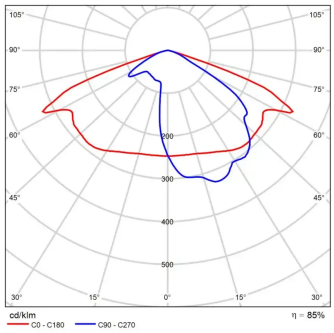


PHOTOMETRIC CURVES

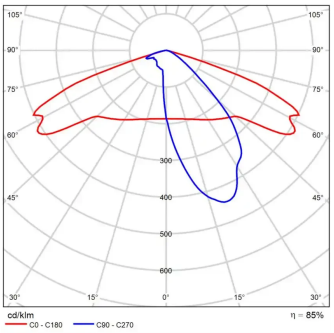
T4



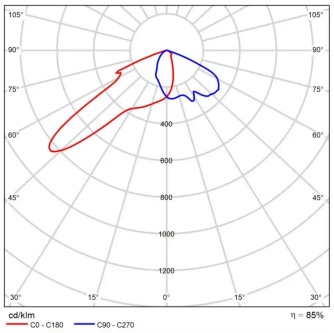
T3



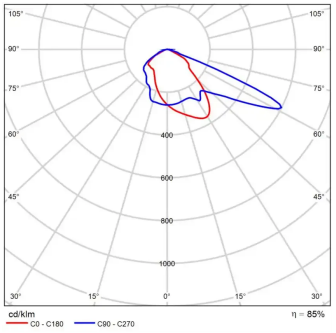
T2



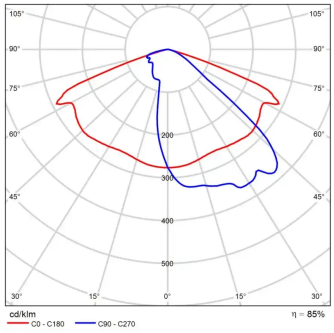
PL



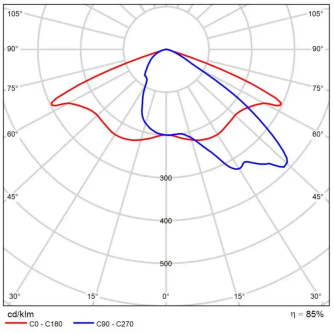
P2



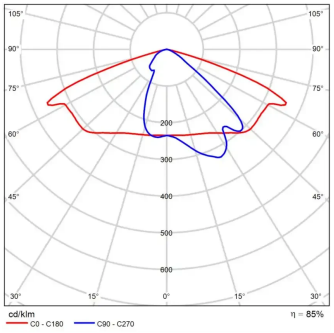
ME



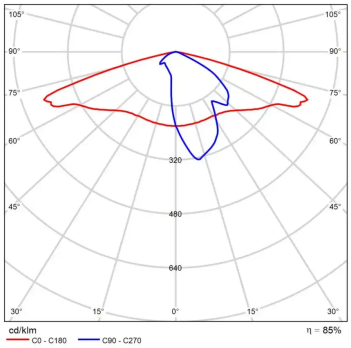
LW



LM



DW



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CUDDLE II LED 60

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

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