

TECHNICAL DATA

Application	motorways and expressway, urban roads, residential roads (internal), pedestrians, parkings
Assembly	directly on column with $\varnothing$ 60 x 180 mm ending or on extension arm with $\varnothing$ 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	49 A / 290 μ s (CUDDLE II LED REG D4i 48 - 72) 24 A / 60 μ s (CUDDLE II LED REG D4i 96 - 144) 85 A / 215 μ s (CUDDLE II LED REG D4i 192)
Input voltage frequency	50/60Hz
Power factor	$\geq$ 0.95
Number of LED	24
Control system	Luminaire can be connected to an external control system and / or sensors via socket compatible with Zhaga Book 18

Code	Symbol	LED power	Luminaire power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux ¹	Luminaire luminous flux ¹	Luminous efficacy ¹	D4i socket	Net weight
2225333/4/... ²	CUDDLE II LED REG D4i D 48	48 W	55 W	700 mA	4000 K	9150 lm	7800 lm	142 lm/W	1 ↓	6.7 kg

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

2) symbol of chosen optical system eg. 2225133/6/T2 is CUDDLE II LED REG D4i 48 5000K with T2 optical system

↑ - D4i socket from top, ↓ - D4i socket from bottom, ↓ ↑ - D4i socket from top and bottom

*For the CUDDLE II LED REG D4i 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: 2225133/7/P2 -CUDDLE II LED REG D4i 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:

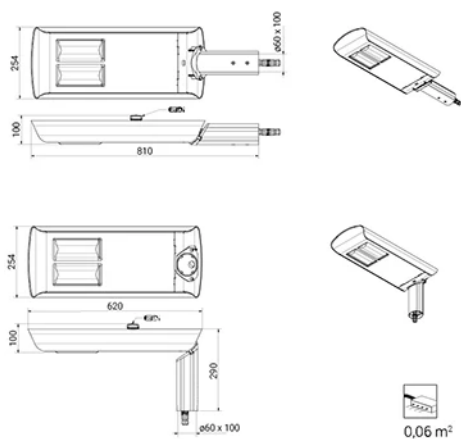
- functional grounding
- LED luminaire with an additional protection device

CUDDLE II LED REG D4i D 48

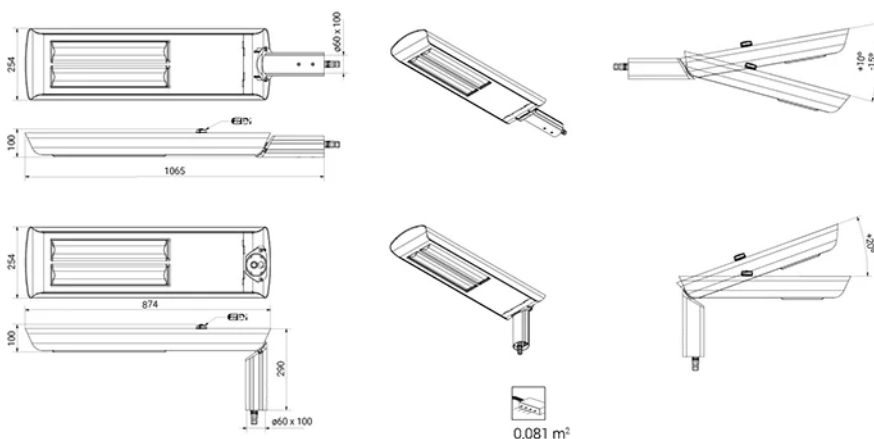


TECHNICAL DRAWING

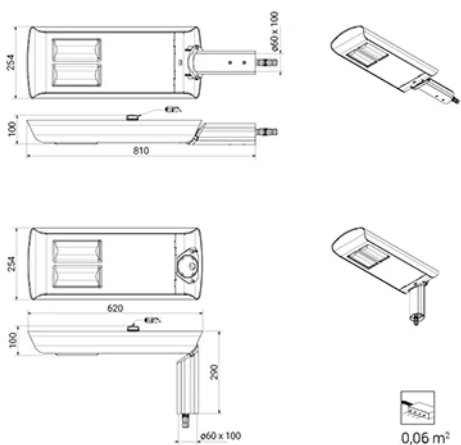
CUDDLE II LED REG D4i 48-72 W



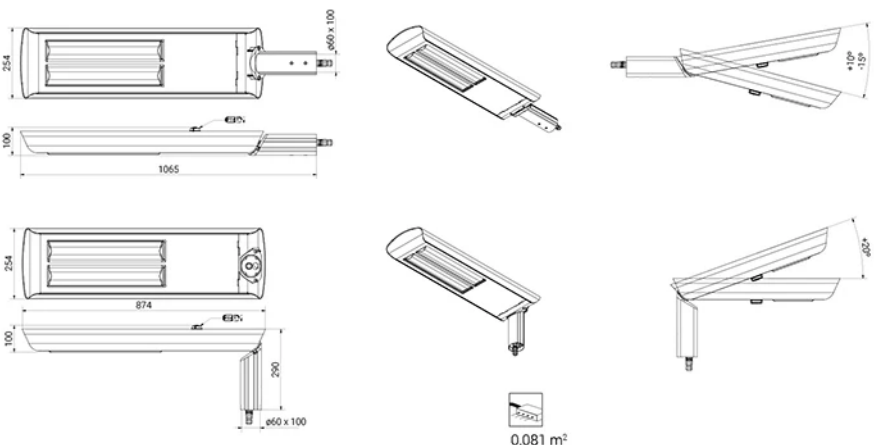
CUDDLE II LED REG D4i 96-192 W



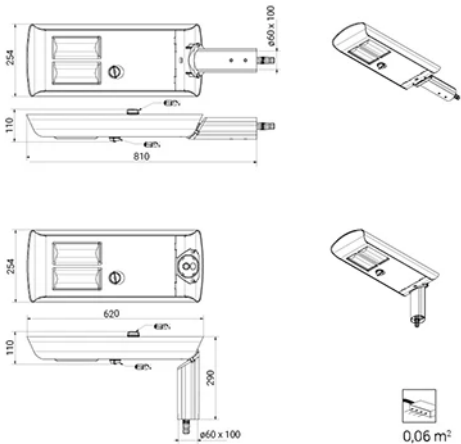
CUDDLE II LED REG D4i D 48-72 W



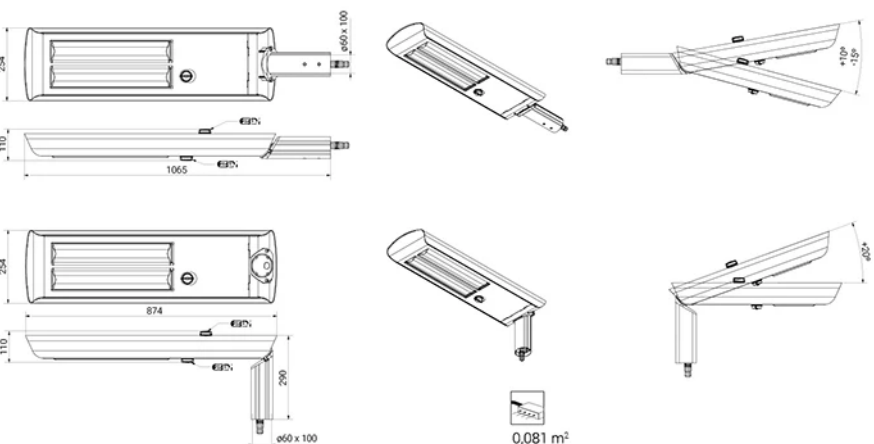
CUDDLE II LED REG D4i D 96-192 W



CUDDLE II LED REG D4i x2 48-72 W

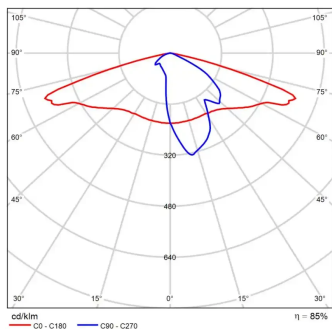


CUDDLE II LED REG D4i x2 96-192 W

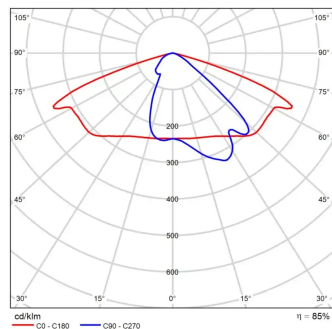


PHOTOMETRIC CURVES

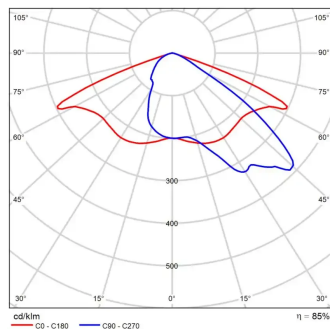
DW



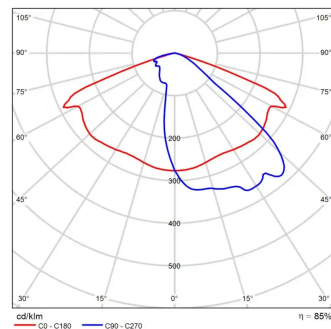
LM



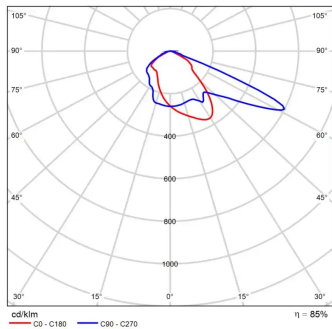
LW



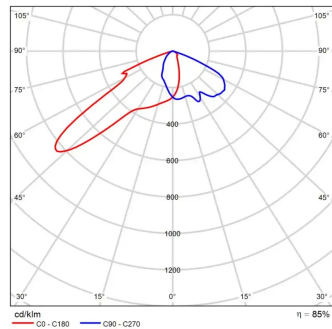
ME



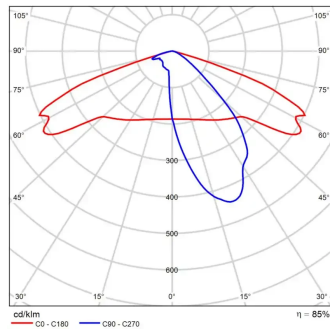
P2



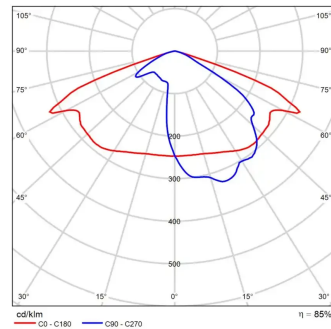
PL



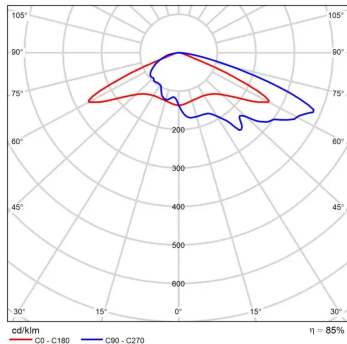
T2



T3



T4



POWER SYSTEM FUNCTIONS

Luminaire in standard has following functions of intelligent power supply:

- 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,

CUDDLE II LED REG D4i D 48



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 D4i 48, 60, 72W	B	4	9	13	23	37	46	58
	C	4	9	13	23	37	46	58
CUDDLE II LED D4i 96, 120, 144W	B	1	3	5	8	14	17	21
	C	1	4	7	11	19	23	29
CUDDLE II LED D4i 192W	B	0	1	2	3	5	6	7
	C	0	2	3	5	8	10	13

Fuse – type gG and GL

Luminaire	2A	4A	6A	10A	16A	20A	25A
CUDDLE II LED REG D4i 48W	4	9	13	23	37	46	58
CUDDLE II LED REG D4i 60W	4	9	13	23	37	46	58
CUDDLE II LED REG D4i 72W	4	9	13	23	37	46	58
CUDDLE II LED REG D4i 96W	2	4	7	11	19	23	29
CUDDLE II LED REG D4i 120W	2	4	7	11	19	23	29
CUDDLE II LED REG D4i 144W	2	4	7	11	19	23	29
CUDDLE II LED REG D4i 192W	0	2	4	6	12	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