



- Application:** motorways and expressways, urban roads, residential roads (internal), pedestrians, parkings
- Assembly:** pole top mounted or on extension arms with  $\varnothing 60 \times 100$  mm ending
- Luminaire angular adjustment:** pole top mounted in the range from  $0^\circ$  to  $20^\circ$  by  $5^\circ$  or on extension arms in the range from  $+10^\circ$  to  $-15^\circ$  by  $5^\circ$
- Ingress protection:** IP 66 for the optical part and the driver
- Material:** anodised aluminium alloy
- Colour:** inox / black
- Optical system:** PMMA optics, interchangeable LED module. PC-UV diffuser
- Number of LEDs:** 24 for 48W, 60W, 72W; 64 for 96W, 120W, 144W, 192W
- Operating temperature range:** from  $-40^\circ\text{C}$  to  $+40^\circ\text{C}$
- Expected useful lifetime:** L90F10 – 50 000 h, L80F20 – 100 000 h
- CRI:**  $>70$  for 5000K, 4000K;  $>80$  for 3500K, 2700K
- Input voltage frequency:** 50/60Hz
- Power factor:**  $\geq 0.95$
- Inrush current:** : 46A / 250 $\mu\text{s}$  for 48W, 60W, 72W; 58A / 340 $\mu\text{s}$  for 96W, 120W, 144W; 80A / 225 $\mu\text{s}$  for 192W

Luminaire CUDDLE II LED REG 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 <sup>2</sup>	Luminaire luminous flux <sup>2</sup>	Luminous efficacy	Unit volume	Luminaire net weight
<b>2223133/1/...<sup>1)</sup></b>	CUDDLE II LED REG 48	48W	55W	700mA	2700K	7 050lm	6000lm	109lm/W	0,029m <sup>3</sup>	6,7kg
<b>2223133/3/...<sup>1)</sup></b>	CUDDLE II LED REG 48	48W	55W	700mA	3500K	7 350lm	6250lm	114lm/W	0,029m <sup>3</sup>	6,7kg
<b>2223133/4/...<sup>1)</sup></b>	CUDDLE II LED REG 48	48W	55W	700mA	4000K	8 650lm	7450lm	135lm/W	0,029m <sup>3</sup>	6,7kg
<b>2223133/6/...<sup>1)</sup></b>	CUDDLE II LED REG 48	48W	55W	700mA	5000K	8 650lm	7450lm	135lm/W	0,029m <sup>3</sup>	6,7kg
<b>2223134/1/...<sup>1)</sup></b>	CUDDLE II LED REG 60	60W	67W	830mA	2700K	8 150lm	7000lm	104lm/W	0,029m <sup>3</sup>	6,7kg
<b>2223134/3/...<sup>1)</sup></b>	CUDDLE II LED REG 60	60W	67W	830mA	3500K	8 500lm	7350lm	110lm/W	0,029m <sup>3</sup>	6,7kg
<b>2223134/4/...<sup>1)</sup></b>	CUDDLE II LED REG 60	60W	67W	830mA	4000K	10 050lm	8550lm	128lm/W	0,029m <sup>3</sup>	6,7kg
<b>2223134/6/...<sup>1)</sup></b>	CUDDLE II LED REG 60	60W	67W	830mA	5000K	10 050lm	8550lm	128lm/W	0,029m <sup>3</sup>	6,7kg
<b>2223135/1/...<sup>1)</sup></b>	CUDDLE II LED REG 72	72W	79W	1000mA	2700K	9 450lm	8050lm	102lm/W	0,029m <sup>3</sup>	6,7kg
<b>2223135/3/...<sup>1)</sup></b>	CUDDLE II LED REG 72	72W	79W	1000mA	3500K	9 900lm	8450lm	107lm/W	0,029m <sup>3</sup>	6,7kg
<b>2223135/4/...<sup>1)</sup></b>	CUDDLE II LED REG 72	72W	79W	1000mA	4000K	11 650lm	9950lm	126lm/W	0,029m <sup>3</sup>	6,7kg
<b>2223135/6/...<sup>1)</sup></b>	CUDDLE II LED REG 72	72W	79W	1000mA	5000K	11 650lm	9950lm	126lm/W	0,029m <sup>3</sup>	6,7kg
<b>2223137/1/...<sup>1)</sup></b>	CUDDLE II LED REG 96	96W	105W	500mA	2700K	14 850lm	12700lm	121lm/W	0,038m <sup>3</sup>	9kg
<b>2223137/3/...<sup>1)</sup></b>	CUDDLE II LED REG 96	96W	105W	500mA	3500K	15 500lm	13200lm	126lm/W	0,038m <sup>3</sup>	9kg
<b>2223137/4/...<sup>1)</sup></b>	CUDDLE II LED REG 96	96W	105W	500mA	4000K	18 000lm	15300lm	146lm/W	0,038m <sup>3</sup>	9kg
<b>2223137/6/...<sup>1)</sup></b>	CUDDLE II LED REG 96	96W	105W	500mA	5000K	18 000lm	15300lm	146lm/W	0,038m <sup>3</sup>	9kg
<b>2223139/1/...<sup>1)</sup></b>	CUDDLE II LED REG 120	120W	129W	625mA	2700K	17 900lm	15250lm	118lm/W	0,038m <sup>3</sup>	9kg
<b>2223139/3/...<sup>1)</sup></b>	CUDDLE II LED REG 120	120W	129W	625mA	3500K	18 700lm	15900lm	123lm/W	0,038m <sup>3</sup>	9kg
<b>2223139/4/...<sup>1)</sup></b>	CUDDLE II LED REG 120	120W	129W	625mA	4000K	21 700lm	18400lm	143lm/W	0,038m <sup>3</sup>	9kg
<b>2223139/6/...<sup>1)</sup></b>	CUDDLE II LED REG 120	120W	129W	625mA	5000K	21 700lm	18400lm	143lm/W	0,038m <sup>3</sup>	9kg

Code	Symbol	LED power	Luminaire Power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux	Luminaire luminous flux	Luminous efficacy	Unit volume	Luminaire net weight
<b>2223141/1/...<sup>1)</sup></b>	CUDDLE II LED REG 144	144W	154W	750mA	2700K	20 600lm	17500lm	114lm/W	0,038m <sup>3</sup>	9kg
<b>2223141/3/...<sup>1)</sup></b>	CUDDLE II LED REG 144	144W	154W	750mA	3500K	21 500lm	18300lm	119lm/W	0,038m <sup>3</sup>	9kg
<b>2223141/4/...<sup>1)</sup></b>	CUDDLE II LED REG 144	144W	154W	750mA	4000K	24 900lm	21200lm	138lm/W	0,038m <sup>3</sup>	9kg
<b>2223141/6/...<sup>1)</sup></b>	CUDDLE II LED REG 144	144W	154W	750mA	5000K	24 900lm	21200lm	138lm/W	0,038m <sup>3</sup>	9kg
<b>2223146/1/...<sup>1)</sup></b>	CUDDLE II LED REG 192	192W	205W	1000mA	2700K	24 000lm	20400lm	100lm/W	0,038m <sup>3</sup>	9kg
<b>2223146/3/...<sup>1)</sup></b>	CUDDLE II LED REG 192	192W	205W	1000mA	3500K	25 000lm	21300lm	104lm/W	0,038m <sup>3</sup>	9kg
<b>2223146/4/...<sup>1)</sup></b>	CUDDLE II LED REG 192	192W	205W	1000mA	4000K	29 000lm	24600lm	120lm/W	0,038m <sup>3</sup>	9kg
<b>2223146/6/...<sup>1)</sup></b>	CUDDLE II LED REG 192	192W	205W	1000mA	5000K	29 000lm	24600lm	120lm/W	0,038m <sup>3</sup>	9kg

1) Symbol of chosen optical system eg. **2223133/6/T2** is **CUDDLE II LED REG 48 5000K with T2 optical system**

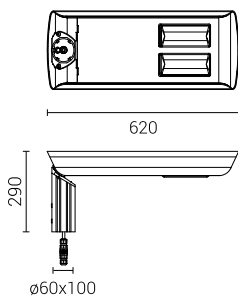
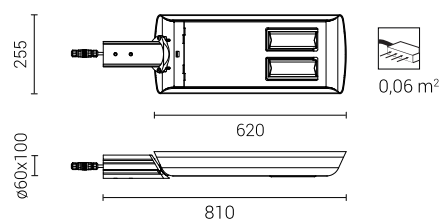
2) tolerance +/- 5% due to LEDs accuracy

**Directive:** 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, 2009/125/EC

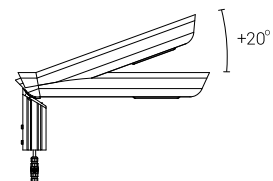
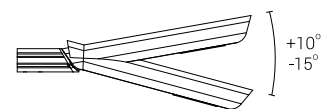
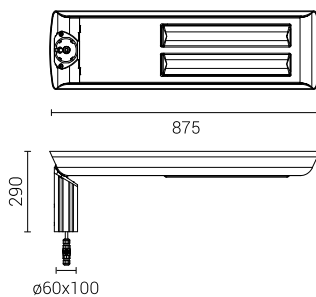
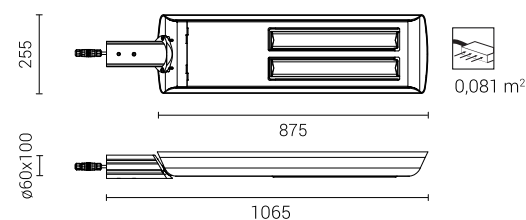
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required (for more information visit: [www.rosa.pl/en/knowledge/LED-lighting](http://www.rosa.pl/en/knowledge/LED-lighting)):

- functional grounding
- LED luminaire with an additional protection device

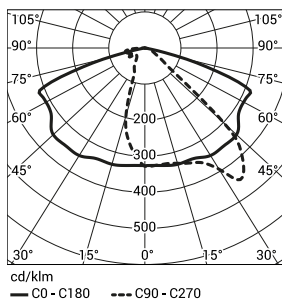
CUDDLE II LED REG 48W, 60W, 72W



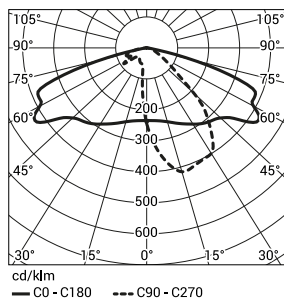
CUDDLE II LED REG 96W, 120W, 144W, 192W



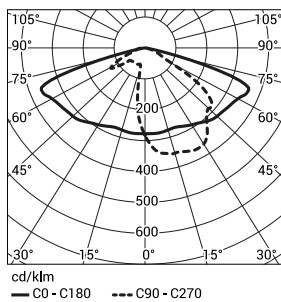
ME



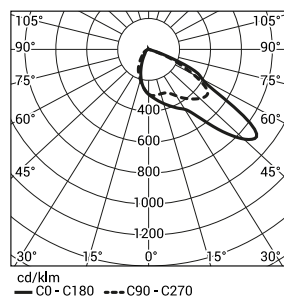
T2



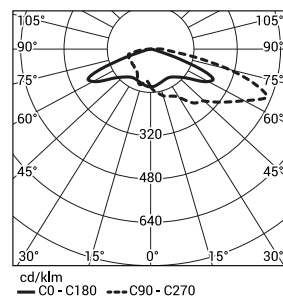
T3



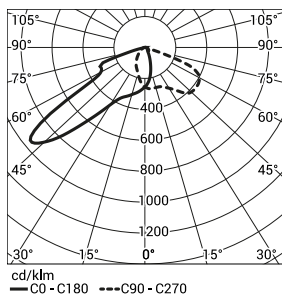
PP



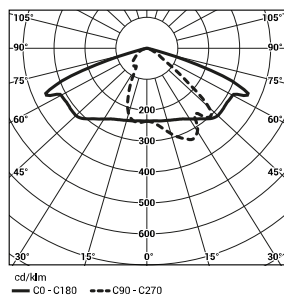
T4



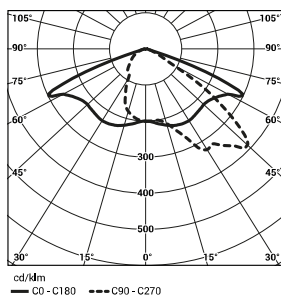
PL



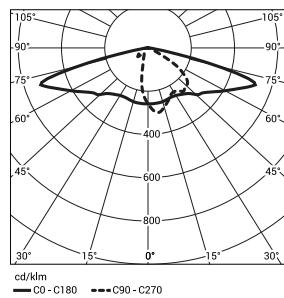
LM



LW



DW



**Luminaire CUDDLE II LED REG 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,
- Temperature protection of LED module (from overheating) in case of unintentional luminaire operation during the,
- Regulation of power / luminous flux – the option of setting another value than the catalogue in the range of 30-100% of nominal one,

**Acceptable quantity of luminaires CUDDLE II LED REG on one circuit, protected by:**

Overcurrent switches MCB type B or C

Luminaire	Typ	2A	4A	6A	10A	16A	20A	25A
CUDDLE II LED REG 48, 60, 72W	B	1	2	4	6	11	13	17
	C	1	4	6	11	18	22	28
CUDDLE II LED REG 96, 120, 144W	B	1	1	3	5	8	12	12
	C	1	3	5	8	13	16	20
CUDDLE II LED REG 192W	B	0	1	2	4	8	10	12
	C	1	2	4	6	13	16	18

Fuse – type gG and GL

Luminaire	2A	4A	6A	10A	16A	20A	25A
CUDDLE II LED REG 48, 60, 72W	1	2	11	19	30	38	47
CUDDLE II LED REG 96, 120, 144W	1	1	6	9	15	19	24
CUDDLE II LED REG 192W	0	1	4	7	12	15	19