



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
Material	anodised aluminium alloy
Operating temperature range	from -40°C to +40°C
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Input voltage frequency	50/60Hz
Power factor	≥ 0.95
Number of LED	24 (dla 48 W, 60 W, 72 W); 64 (dla 96 W, 120 W, 144 W, 192 W)
Control system	The luminaire can be connected to an external control system via a 5-pin socket compatible with ANSI C136.41 (optional installation of a 7-pin socket). Standard communication interface: DALI (optional 1-10V analog signal support).

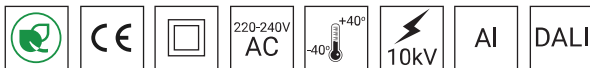


TABLE OF TYPES

Code	Symbol	LED power	Luminaire power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux ¹	Luminaire luminous flux ¹	Luminous efficacy ¹	Unit volume	Net weight	Diffuser	D4i socket
2224133/1/... ²	CUDDLE II LED REG 48 NEMA	48 W	55 W	700 mA	2700 K	8150 lm	6950 lm	126 lm/W	0.029 m ³	6.9 kg	-	-
2224133/3/... ²	CUDDLE II LED REG 48 NEMA	48 W	55 W	700 mA	3500 K	8650 lm	7350 lm	134 lm/W	0.029 m ³	6.9 kg	-	-
2224133/4/... ²	CUDDLE II LED REG 48 NEMA	48 W	55 W	700 mA	4000 K	9150 lm	7800 lm	142 lm/W	0.029 m ³	6.9 kg	-	-
2224133/6/... ²	CUDDLE II LED REG 48 NEMA	48 W	55 W	700 mA	5000 K	9150 lm	7800 lm	142 lm/W	0.029 m ³	6.9 kg	-	-
2224134/1/... ²	CUDDLE II LED REG 60 NEMA	60 W	67 W	830 mA	2700 K	9300 lm	7950 lm	119 lm/W	0.029 m ³	6.9 kg	-	-
2224134/3/... ²	CUDDLE II LED REG 60 NEMA	60 W	67 W	830 mA	3500 K	9850 lm	8400 lm	125 lm/W	0.029 m ³	6.9 kg	-	-
2224134/4/... ²	CUDDLE II LED REG 60 NEMA	60 W	67 W	830 mA	4000 K	10450 lm	8900 lm	133 lm/W	0.029 m ³	6.9 kg	-	-
2224134/6/... ²	CUDDLE II LED REG 60 NEMA	60 W	67 W	830 mA	5000 K	10450 lm	8900 lm	133 lm/W	0.029 m ³	6.9 kg	-	-
2224135/1/... ²	CUDDLE II LED REG 72 NEMA	72 W	79 W	1000 mA	2700 K	10700 lm	9100 lm	115 lm/W	0.029 m ³	6.9 kg	-	-
2224135/3/... ²	CUDDLE II LED REG 72 NEMA	72 W	79 W	1000 mA	3500 K	11350 lm	9700 lm	123 lm/W	0.029 m ³	6.9 kg	-	-
2224135/4/... ²	CUDDLE II LED REG 72 NEMA	72 W	79 W	1000 mA	4000 K	12100 lm	10300 lm	130 lm/W	0.029 m ³	6.9 kg	-	-
2224135/6/... ²	CUDDLE II LED REG 72 NEMA	72 W	79 W	1000 mA	5000 K	12100 lm	10300 lm	130 lm/W	0.029 m ³	6.9 kg	-	-
2224137/1/... ²	CUDDLE II LED REG 96 NEMA	96 W	105 W	500 mA	2700 K	16000 lm	13650 lm	130 lm/W	0.038 m ³	9.2 kg	-	-
2224137/3/... ²	CUDDLE II LED REG 96 NEMA	96 W	105 W	500 mA	3500 K	16950 lm	14450 lm	138 lm/W	0.038 m ³	9.2 kg	-	-
2224137/4/... ²	CUDDLE II LED REG 96 NEMA	96 W	105 W	500 mA	4000 K	18000 lm	15350 lm	146 lm/W	0.038 m ³	9.2 kg	-	-
2224137/6/... ²	CUDDLE II LED REG 96 NEMA	96 W	105 W	500 mA	5000 K	18000 lm	15350 lm	146 lm/W	0.038 m ³	9.2 kg	-	-
2224139/1/... ²	CUDDLE II LED REG 120 NEMA	120 W	129 W	625 mA	2700 K	19250 lm	16400 lm	127 lm/W	0.038 m ³	9.2 kg	-	-
2224139/3/... ²	CUDDLE II LED REG 120 NEMA	120 W	129 W	625 mA	3500 K	20500 lm	17450 lm	135 lm/W	0.038 m ³	9.2 kg	-	-
2224139/4/... ²	CUDDLE II LED REG 120 NEMA	120 W	129 W	625 mA	4000 K	21700 lm	18500 lm	143 lm/W	0.038 m ³	9.2 kg	-	-
2224139/6/... ²	CUDDLE II LED REG 120 NEMA	120 W	129 W	625 mA	5000 K	21700 lm	18500 lm	143 lm/W	0.038 m ³	9.2 kg	-	-
2224141/1/... ²	CUDDLE II LED REG 144 NEMA	144 W	154 W	750 mA	2700 K	22350 lm	19050 lm	124 lm/W	0.038 m ³	9.2 kg	-	-
2224141/3/... ²	CUDDLE II LED REG 144 NEMA	144 W	154 W	750 mA	3500 K	23750 lm	20250 lm	131 lm/W	0.038 m ³	9.2 kg	-	-
2224141/4/... ²	CUDDLE II LED REG 144 NEMA	144 W	154 W	750 mA	4000 K	25150 lm	21450 lm	139 lm/W	0.038 m ³	9.2 kg	-	-
2224141/6/... ²	CUDDLE II LED REG 144 NEMA	144 W	154 W	750 mA	5000 K	25150 lm	21450 lm	139 lm/W	0.038 m ³	9.2 kg	-	-
2224146/1/... ²	CUDDLE II LED REG 192 NEMA	192 W	205 W	1000 mA	2700 K	27850 lm	23750 lm	116 lm/W	0.038 m ³	9.2 kg	-	-
2224146/3/... ²	CUDDLE II LED REG 192 NEMA	192 W	205 W	1000 mA	3500 K	29600 lm	25250 lm	123 lm/W	0.038 m ³	9.2 kg	-	-
2224146/4/... ²	CUDDLE II LED REG 192 NEMA	192 W	205 W	1000 mA	4000 K	31350 lm	26700 lm	130 lm/W	0.038 m ³	9.2 kg	-	-
2224146/6/... ²	CUDDLE II LED REG 192 NEMA	192 W	205 W	1000 mA	5000 K	31350 lm	26700 lm	130 lm/W	0.038 m ³	9.2 kg	-	-

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

2) symbol of chosen optical system eg. 2224133/6/T2 is CUDDLE II LED REG 48 NEMA 5000K with T2 optical system

DIRECTIVES AND STANDARDS

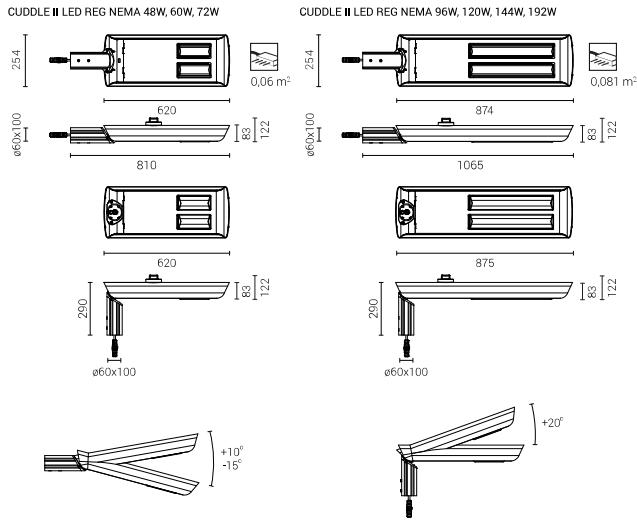
DIRECTIVES: 2014/35/UE (Official Journal of the UE L 96/357 29.03.2014), 2014/30/UE (Official Journal of the UE L 96/79 29.03.2014), 2011/65/UE, 2009/125/EC
STANDARDS: PN-EN IEC 60598-1: 2021-7, PN-EN 60598-2-3: 2006, PN-EN 60529: 2003, PN-EN 62262: 2003, PN-EN 62471:2010, PN-EN 55015: 2013, PN-EN 61547: 2009, PN-EN 61000-3-2: 2014 , PN-EN 61000-3-3: 2013

CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

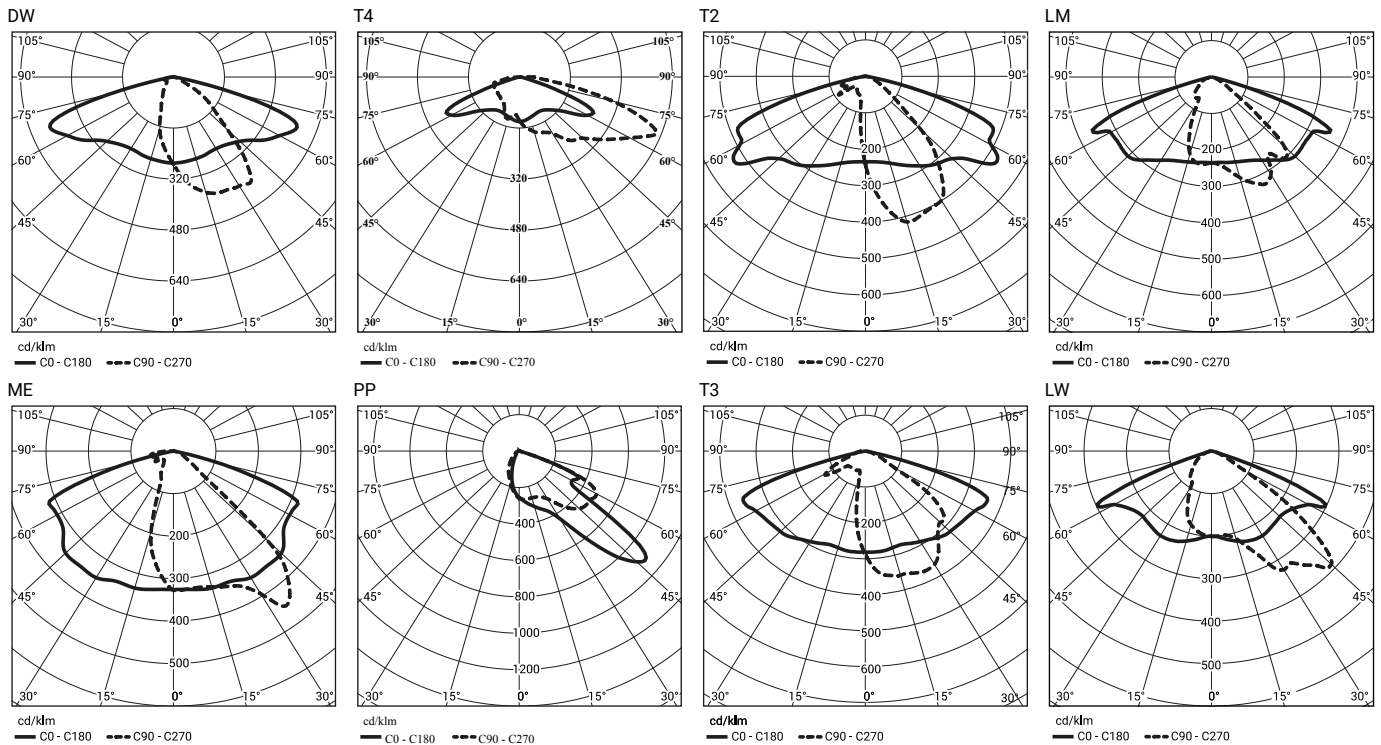
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

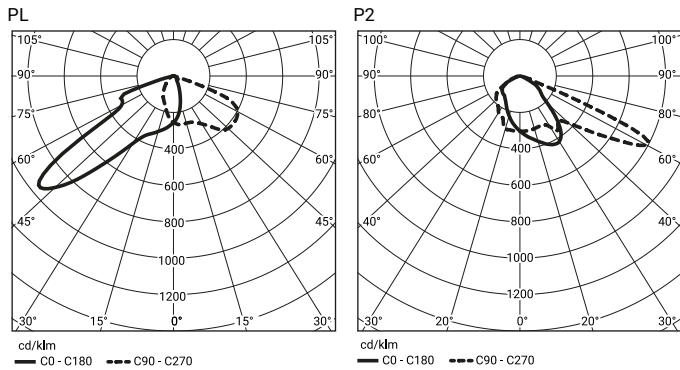
- functional grounding
- LED luminaire with an additional protection device

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,
- 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 ON ONE CIRCUIT

Overcurrent switches MCB type B or C

Luminaire	Typ	2A	4A	6A	10A	16A	20A	25A
CUDDLE II LED REG NEMA 48, 60, 72W	B	1	2	4	6	10	12	15
	C	1	4	6	10	17	20	26
CUDDLE II LED REG NEMA 96, 120, 144W	B	1	2	3	5	9	11	14
	C	1	3	5	9	15	18	23
CUDDLE II LED REG NEMA 192W	B	1	2	3	5	8	10	12
	C	1	3	5	8	13	16	20

Fuse – type gG and GL

Luminaire	2A	4A	6A	10A	16A	20A	25A
CUDDLE II LED REG NEMA 48, 60, 72W	0	4	8	11	22	31	44
CUDDLE II LED REG NEMA 96, 120, 144W	0	2	5	7	14	20	28
CUDDLE II LED REG NEMA 192W	0	2	5	6	13	17	22