



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
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 - (48 W, 60 W, 72 W); 64 - (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).

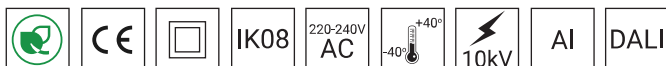


TABLE OF VARIANTS

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	Inrush current	Net weight
2224033/1/... ²	CUDDLE II LED 48 NEMA	48 W	55 W	700 mA	2700 K	8150 lm	6950 lm	126 lm/W	0.024 m³	43A / 260µs	5.8 kg
2224033/3/... ²	CUDDLE II LED 48 NEMA	48 W	55 W	700 mA	3500 K	8650 lm	7350 lm	134 lm/W	0.024 m³	43A / 260µs	5.8 kg
2224033/4/... ²	CUDDLE II LED 48 NEMA	48 W	55 W	700 mA	4000 K	9150 lm	7800 lm	142 lm/W	0.024 m³	43A / 260µs	5.8 kg
2224033/6/... ²	CUDDLE II LED 48 NEMA	48 W	55 W	700 mA	5000 K	9150 lm	7800 lm	142 lm/W	0.024 m³	43A / 260µs	5.8 kg
2224034/1/... ²	CUDDLE II LED 60 NEMA	60 W	67 W	830 mA	2700 K	9300 lm	7950 lm	119 lm/W	0.024 m³	43A / 260µs	5.8 kg
2224034/3/... ²	CUDDLE II LED 60 NEMA	60 W	67 W	830 mA	3500 K	9850 lm	8400 lm	125 lm/W	0.024 m³	43A / 260µs	5.8 kg
2224034/4/... ²	CUDDLE II LED 60 NEMA	60 W	67 W	830 mA	4000 K	10450 lm	8900 lm	133 lm/W	0.024 m³	43A / 260µs	5.8 kg
2224034/6/... ²	CUDDLE II LED 60 NEMA	60 W	67 W	830 mA	5000 K	10450 lm	8900 lm	133 lm/W	0.024 m³	43A / 260µs	5.8 kg
2224035/1/... ²	CUDDLE II LED 72 NEMA	72 W	79 W	1000 mA	2700 K	10700 lm	9100 lm	115 lm/W	0.024 m³	43A / 260µs	5.8 kg
2224035/3/... ²	CUDDLE II LED 72 NEMA	72 W	79 W	1000 mA	3500 K	11350 lm	9700 lm	123 lm/W	0.024 m³	43A / 260µs	5.8 kg
2224035/4/... ²	CUDDLE II LED 72 NEMA	72 W	79 W	1000 mA	4000 K	12100 lm	10300 lm	130 lm/W	0.024 m³	43A / 260µs	5.8 kg
2224035/6/... ²	CUDDLE II LED 72 NEMA	72 W	79 W	1000 mA	5000 K	12100 lm	10300 lm	130 lm/W	0.024 m³	43A / 260µs	5.8 kg
2224037/1/... ²	CUDDLE II LED 96 NEMA	96 W	105 W	500 mA	2700 K	16000 lm	13650 lm	130 lm/W	0.033 m³	77A / 150µs	8 kg
2224037/3/... ²	CUDDLE II LED 96 NEMA	96 W	105 W	500 mA	3500 K	16950 lm	14450 lm	138 lm/W	0.033 m³	77A / 150µs	8 kg
2224037/4/... ²	CUDDLE II LED 96 NEMA	96 W	105 W	500 mA	4000 K	18000 lm	15350 lm	146 lm/W	0.033 m³	77A / 150µs	8 kg
2224037/6/... ²	CUDDLE II LED 96 NEMA	96 W	105 W	500 mA	5000 K	18000 lm	15350 lm	146 lm/W	0.033 m³	77A / 150µs	8 kg
2224039/1/... ²	CUDDLE II LED 120 NEMA	120 W	129 W	625 mA	2700 K	19250 lm	16400 lm	127 lm/W	0.033 m³	77A / 150µs	8 kg
2224039/3/... ²	CUDDLE II LED 120 NEMA	120 W	129 W	625 mA	3500 K	20500 lm	17450 lm	135 lm/W	0.033 m³	77A / 150µs	8 kg
2224039/4/... ²	CUDDLE II LED 120 NEMA	120 W	129 W	625 mA	4000 K	21700 lm	18500 lm	143 lm/W	0.033 m³	77A / 150µs	8 kg
2224039/6/... ²	CUDDLE II LED 120 NEMA	120 W	129 W	625 mA	5000 K	21700 lm	18500 lm	143 lm/W	0.033 m³	77A / 150µs	8 kg
2224041/1/... ²	CUDDLE II LED 144 NEMA	144 W	154 W	750 mA	2700 K	22350 lm	19050 lm	124 lm/W	0.033 m³	77A / 150µs	8 kg
2224041/3/... ²	CUDDLE II LED 144 NEMA	144 W	154 W	750 mA	3500 K	23750 lm	20250 lm	131 lm/W	0.033 m³	77A / 150µs	8 kg
2224041/4/... ²	CUDDLE II LED 144 NEMA	144 W	154 W	750 mA	4000 K	25150 lm	21450 lm	139 lm/W	0.033 m³	77A / 150µs	8 kg
2224041/6/... ²	CUDDLE II LED 144 NEMA	144 W	154 W	750 mA	5000 K	25150 lm	21450 lm	139 lm/W	0.033 m³	77A / 150µs	8 kg
2224046/1/... ²	CUDDLE II LED 192 NEMA	192 W	205 W	1000 mA	2700 K	27850 lm	23750 lm	116 lm/W	0.033 m³	11.5A / 1320µs	8 kg
2224046/3/... ²	CUDDLE II LED 192 NEMA	192 W	205 W	1000 mA	3500 K	29600 lm	25250 lm	123 lm/W	0.033 m³	11.5A / 1320µs	8 kg
2224046/4/... ²	CUDDLE II LED 192 NEMA	192 W	205 W	1000 mA	4000 K	31350 lm	26700 lm	130 lm/W	0.033 m³	11.5A / 1320µs	8 kg
2224046/6/... ²	CUDDLE II LED 192 NEMA	192 W	205 W	1000 mA	5000 K	31350 lm	26700 lm	130 lm/W	0.033 m³	11.5A / 1320µs	8 kg

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

2) symbol of chosen optical system eg. 2224033/6/T2 is CUDDLE II LED 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 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

Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

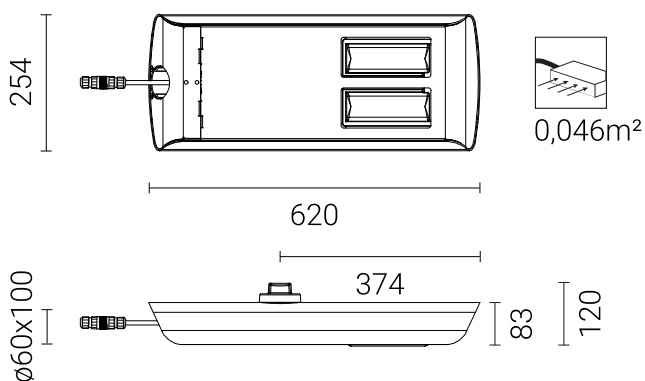
CHARGING DISCHARGE FROM THE LED LUMINAIRE HOUSING

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:

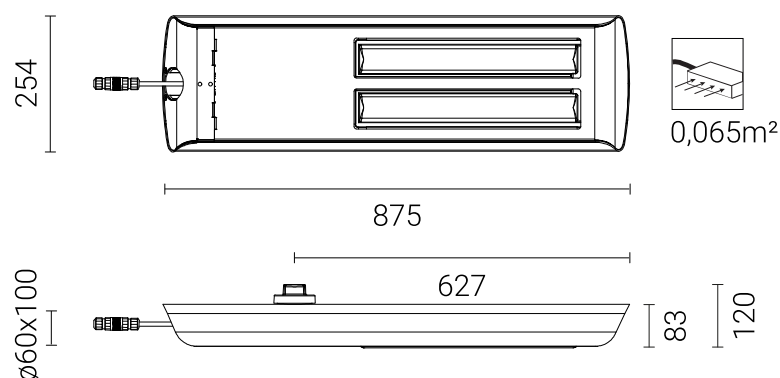
- functional grounding
- LED luminaire with an additional protection device

TECHNICAL DRAWING

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



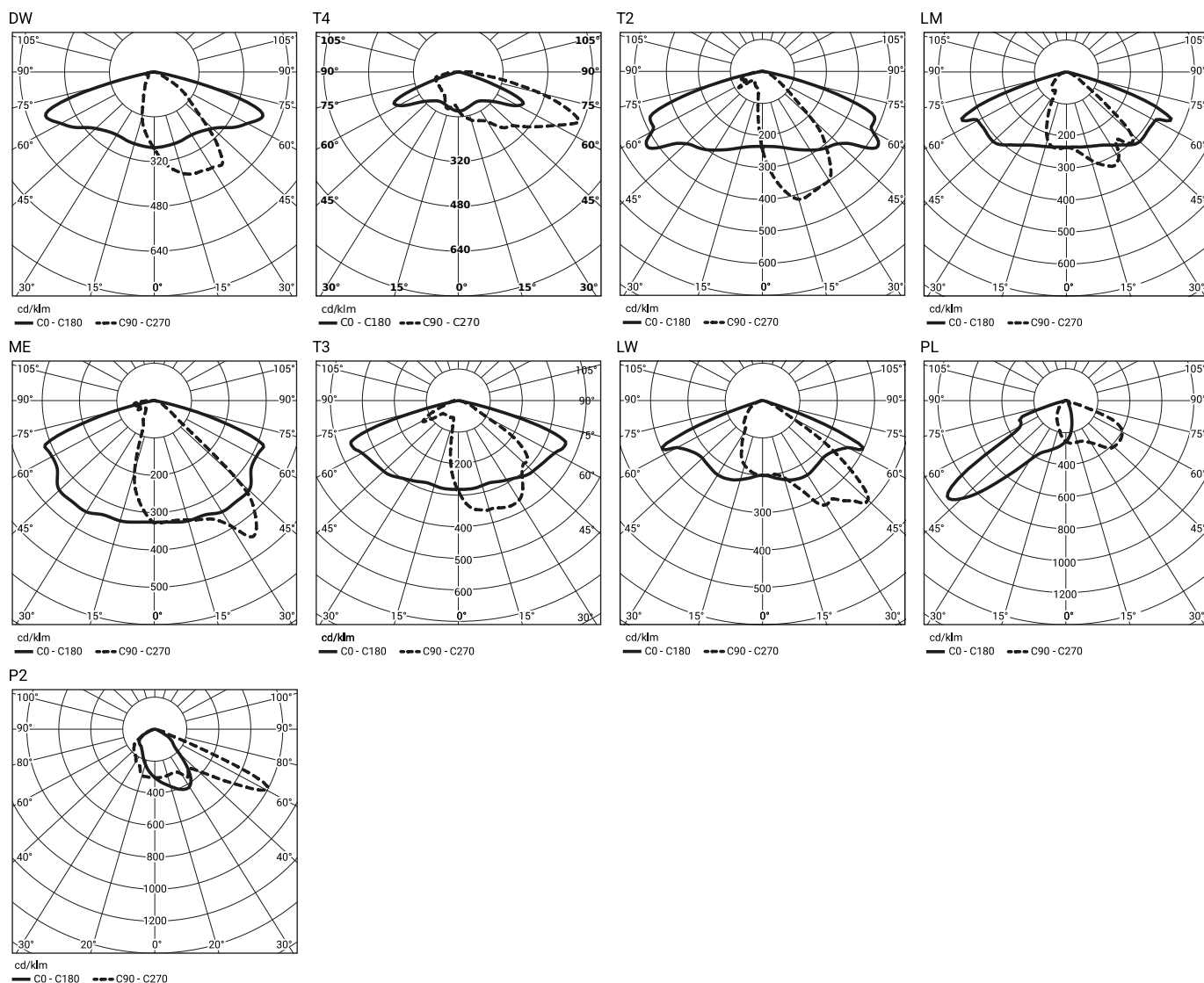
CUDDLE II LED NEMA 96W, 120W, 144W, 192W



PHOTOMETRIC CURVES

Updated at: 18-03-2025

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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