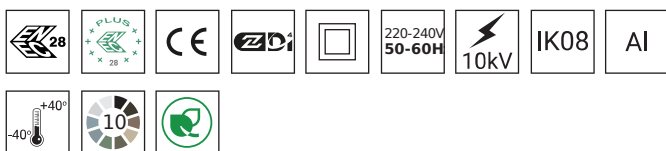


CUDDLE II LED D4i



TECHNICAL DATA

Assembly	on extension arms with ø 60 x 100 mm ending
Application	motorways and expressway, urban roads, residential roads (internal), pedestrians, parkings
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	0,024 m³ (CUDDLE II LED D4i 48 - 72) 0,033 m³ (CUDDLE II LED D4i 96 - 192)
Operating temperature range	from -40°C to +40°C
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Inrush current	49 A / 290 µs (CUDDLE II LED D4i 48 - 72) 24 A / 60 µs (CUDDLE II LED D4i 96 - 144) 24 A / 100 µs (CUDDLE II LED D4i x2 96) 85 A / 215 µs (CUDDLE II LED D4i 192)
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	Luminaire can be connected to an external control system and / or sensors via socket compatible with Zhaga Book 18



TABLE OF VARIANTS

Code	Symbol	LED power	Luminaire power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux¹	Luminaire luminous flux¹	Luminous efficacy¹	D4i socket	Net weight
2225033/1/...²	CUDDLE II LED D4i 48	48 W	55 W	700 mA	2700 K	8150 lm	6950 lm	126 lm/W	1 ↑	5.6 kg
2225033/3/...²	CUDDLE II LED D4i 48	48 W	55 W	700 mA	3500 K	8650 lm	7350 lm	134 lm/W	1 ↑	5.6 kg
2225033/4/...²	CUDDLE II LED D4i 48	48 W	55 W	700 mA	4000 K	9150 lm	7800 lm	142 lm/W	1 ↑	5.6 kg
2225033/6/...²	CUDDLE II LED D4i 48	48 W	55 W	700 mA	5000 K	9150 lm	7800 lm	142 lm/W	1 ↑	5.6 kg
2225034/1/...²	CUDDLE II LED D4i 60	60 W	67 W	830 mA	2700 K	9300 lm	7950 lm	119 lm/W	1 ↑	5.6 kg
2225034/3/...²	CUDDLE II LED D4i 60	60 W	67 W	830 mA	3500 K	9850 lm	8400 lm	125 lm/W	1 ↑	5.6 kg
2225034/4/...²	CUDDLE II LED D4i 60	60 W	67 W	830 mA	4000 K	10450 lm	8900 lm	133 lm/W	1 ↑	5.6 kg
2225034/6/...²	CUDDLE II LED D4i 60	60 W	67 W	830 mA	5000 K	10450 lm	8900 lm	133 lm/W	1 ↑	5.6 kg
2225035/1/...²	CUDDLE II LED D4i 72	72 W	79 W	1000 mA	2700 K	10700 lm	9100 lm	115 lm/W	1 ↑	5.6 kg
2225035/3/...²	CUDDLE II LED D4i 72	72 W	79 W	1000 mA	3500 K	11350 lm	9700 lm	123 lm/W	1 ↑	5.6 kg
2225035/4/...²	CUDDLE II LED D4i 72	72 W	79 W	1000 mA	4000 K	12100 lm	10300 lm	130 lm/W	1 ↑	5.6 kg
2225035/6/...²	CUDDLE II LED D4i 72	72 W	79 W	1000 mA	5000 K	12100 lm	10300 lm	130 lm/W	1 ↑	5.6 kg
2225037/1/...²	CUDDLE II LED D4i 96	96 W	105 W	500 mA	2700 K	16000 lm	13650 lm	130 lm/W	1 ↑	7.8 kg
2225037/3/...²	CUDDLE II LED D4i 96	96 W	105 W	500 mA	3500 K	16950 lm	14450 lm	138 lm/W	1 ↑	7.8 kg
2225037/4/...²	CUDDLE II LED D4i 96	96 W	105 W	500 mA	4000 K	18000 lm	15350 lm	146 lm/W	1 ↑	7.8 kg
2225037/6/...²	CUDDLE II LED D4i 96	96 W	105 W	500 mA	5000 K	18000 lm	15350 lm	146 lm/W	1 ↑	7.8 kg
2225039/1/...²	CUDDLE II LED D4i 120	120 W	129 W	625 mA	2700 K	19250 lm	16400 lm	127 lm/W	1 ↑	7.8 kg
2225039/3/...²	CUDDLE II LED D4i 120	120 W	129 W	625 mA	3500 K	20500 lm	17450 lm	135 lm/W	1 ↑	7.8 kg
2225039/4/...²	CUDDLE II LED D4i 120	120 W	129 W	625 mA	4000 K	21700 lm	18500 lm	143 lm/W	1 ↑	7.8 kg
2225039/6/...²	CUDDLE II LED D4i 120	120 W	129 W	625 mA	5000 K	21700 lm	18500 lm	143 lm/W	1 ↑	7.8 kg
2225041/1/...²	CUDDLE II LED D4i 144	144 W	154 W	750 mA	2700 K	22350 lm	19050 lm	124 lm/W	1 ↑	7.8 kg
2225041/3/...²	CUDDLE II LED D4i 144	144 W	154 W	750 mA	3500 K	23750 lm	20250 lm	131 lm/W	1 ↑	7.8 kg
2225041/4/...²	CUDDLE II LED D4i 144	144 W	154 W	750 mA	4000 K	25150 lm	21450 lm	139 lm/W	1 ↑	7.8 kg
2225041/6/...²	CUDDLE II LED D4i 144	144 W	154 W	750 mA	5000 K	25150 lm	21450 lm	139 lm/W	1 ↑	7.8 kg
2225046/1/...²	CUDDLE II LED D4i 192	192 W	205 W	1000 mA	2700 K	27850 lm	23750 lm	116 lm/W	1 ↑	7.8 kg
2225046/3/...²	CUDDLE II LED D4i 192	192 W	205 W	1000 mA	3500 K	29600 lm	25250 lm	123 lm/W	1 ↑	7.8 kg
2225046/4/...²	CUDDLE II LED D4i 192	192 W	205 W	1000 mA	4000 K	31350 lm	26700 lm	130 lm/W	1 ↑	7.8 kg

Updated at: 12-02-2026

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CUDDLE II LED D4I



2225046/6/... ²	CUDDLE II LED D4i 192	192 W	205 W	1000 mA	5000 K	31350 lm	26700 lm	130 lm/W	1 T	7.8 kg
2225233/1/... ²	CUDDLE II LED D4i D 48	48 W	55 W	700 mA	2700 K	8150 lm	6950 lm	126 lm/W	1 ↓	5.6 kg
2225233/3/... ²	CUDDLE II LED D4i D 48	48 W	55 W	700 mA	3500 K	8650 lm	7350 lm	134 lm/W	1 ↓	5.6 kg
2225233/4/... ²	CUDDLE II LED D4i D 48	48 W	55 W	700 mA	4000 K	9150 lm	7800 lm	142 lm/W	1 ↓	5.6 kg
2225233/6/... ²	CUDDLE II LED D4i D 48	48 W	55 W	700 mA	5000 K	9150 lm	7800 lm	142 lm/W	1 ↓	5.6 kg
2225234/1/... ²	CUDDLE II LED D4i D 60	60 W	67 W	830 mA	2700 K	9300 lm	7950 lm	119 lm/W	1 ↓	5.6 kg
2225234/3/... ²	CUDDLE II LED D4i D 60	60 W	67 W	830 mA	3500 K	9850 lm	8400 lm	125 lm/W	1 ↓	5.6 kg
2225234/4/... ²	CUDDLE II LED D4i D 60	60 W	67 W	830 mA	4000 K	10450 lm	8900 lm	133 lm/W	1 ↓	5.6 kg
2225234/6/... ²	CUDDLE II LED D4i D 60	60 W	67 W	830 mA	5000 K	10450 lm	8900 lm	133 lm/W	1 ↓	5.6 kg
2225235/1/... ²	CUDDLE II LED D4i D 72	72 W	79 W	1000 mA	2700 K	10700 lm	9100 lm	115 lm/W	1 ↓	5.6 kg
2225235/3/... ²	CUDDLE II LED D4i D 72	72 W	79 W	1000 mA	3500 K	11350 lm	9700 lm	123 lm/W	1 ↓	5.6 kg
2225235/4/... ²	CUDDLE II LED D4i D 72	72 W	79 W	1000 mA	4000 K	12100 lm	10300 lm	130 lm/W	1 ↓	5.6 kg
2225235/6/... ²	CUDDLE II LED D4i D 72	72 W	79 W	1000 mA	5000 K	12100 lm	10300 lm	130 lm/W	1 ↓	5.6 kg
2225237/1/... ²	CUDDLE II LED D4i D 96	96 W	105 W	500 mA	2700 K	16000 lm	13650 lm	130 lm/W	1 ↓	7.8 kg
2225237/3/... ²	CUDDLE II LED D4i D 96	96 W	105 W	500 mA	3500 K	16950 lm	14450 lm	138 lm/W	1 ↓	7.8 kg
2225237/4/... ²	CUDDLE II LED D4i D 96	96 W	105 W	500 mA	4000 K	18000 lm	15350 lm	146 lm/W	1 ↓	7.8 kg
2225237/6/... ²	CUDDLE II LED D4i D 96	96 W	105 W	500 mA	5000 K	18000 lm	15350 lm	146 lm/W	1 ↓	7.8 kg
2225239/1/... ²	CUDDLE II LED D4i D 120	120 W	129 W	625 mA	2700 K	19250 lm	16400 lm	127 lm/W	1 ↓	7.8 kg
2225239/3/... ²	CUDDLE II LED D4i D 120	120 W	129 W	625 mA	3500 K	20500 lm	17450 lm	135 lm/W	1 ↓	7.8 kg
2225239/4/... ²	CUDDLE II LED D4i D 120	120 W	129 W	625 mA	4000 K	21700 lm	18500 lm	143 lm/W	1 ↓	7.8 kg
2225239/6/... ²	CUDDLE II LED D4i D 120	120 W	129 W	625 mA	5000 K	21700 lm	18500 lm	143 lm/W	1 ↓	7.8 kg
2225241/1/... ²	CUDDLE II LED D4i D 144	144 W	154 W	750 mA	2700 K	22350 lm	19050 lm	124 lm/W	1 ↓	7.8 kg
2225241/3/... ²	CUDDLE II LED D4i D 144	144 W	154 W	750 mA	3500 K	23750 lm	20250 lm	131 lm/W	1 ↓	7.8 kg
2225241/4/... ²	CUDDLE II LED D4i D 144	144 W	154 W	750 mA	4000 K	25150 lm	21450 lm	139 lm/W	1 ↓	7.8 kg
2225241/6/... ²	CUDDLE II LED D4i D 144	144 W	154 W	750 mA	5000 K	25150 lm	21450 lm	139 lm/W	1 ↓	7.8 kg
2225246/1/... ²	CUDDLE II LED D4i D 192	192 W	205 W	1000 mA	2700 K	27850 lm	23750 lm	116 lm/W	1 ↓	7.8 kg
2225246/3/... ²	CUDDLE II LED D4i D 192	192 W	205 W	1000 mA	3500 K	29600 lm	25250 lm	123 lm/W	1 ↓	7.8 kg
2225246/4/... ²	CUDDLE II LED D4i D 192	192 W	205 W	1000 mA	4000 K	31350 lm	26700 lm	130 lm/W	1 ↓	7.8 kg
2225246/6/... ²	CUDDLE II LED D4i D 192	192 W	205 W	1000 mA	5000 K	31350 lm	26700 lm	130 lm/W	1 ↓	7.8 kg
2225433/1/... ²	CUDDLE II LED D4i x2 48	48 W	55 W	700 mA	2700 K	8150 lm	6950 lm	126 lm/W	1 ↑ / 1 ↓	5.6 kg
2225433/3/... ²	CUDDLE II LED D4i x2 48	48 W	55 W	700 mA	3500 K	8650 lm	7350 lm	134 lm/W	1 ↑ / 1 ↓	5.6 kg
2225433/4/... ²	CUDDLE II LED D4i x2 48	48 W	55 W	700 mA	4000 K	9150 lm	7800 lm	142 lm/W	1 ↑ / 1 ↓	5.6 kg
2225433/6/... ²	CUDDLE II LED D4i x2 48	48 W	55 W	700 mA	5000 K	9150 lm	7800 lm	142 lm/W	1 ↑ / 1 ↓	5.6 kg
2225434/1/... ²	CUDDLE II LED D4i x2 60	60 W	67 W	830 mA	2700 K	9300 lm	7950 lm	119 lm/W	1 ↑ / 1 ↓	5.6 kg
2225434/3/... ²	CUDDLE II LED D4i x2 60	60 W	67 W	830 mA	3500 K	9850 lm	8400 lm	125 lm/W	1 ↑ / 1 ↓	5.6 kg
2225434/4/... ²	CUDDLE II LED D4i x2 60	60 W	67 W	830 mA	4000 K	10450 lm	8900 lm	133 lm/W	1 ↑ / 1 ↓	5.6 kg
2225434/6/... ²	CUDDLE II LED D4i x2 60	60 W	67 W	830 mA	5000 K	10450 lm	8900 lm	133 lm/W	1 ↑ / 1 ↓	5.6 kg
2225435/1/... ²	CUDDLE II LED D4i x2 72	72 W	79 W	1000 mA	2700 K	10700 lm	9100 lm	115 lm/W	1 ↑ / 1 ↓	5.6 kg
2225435/3/... ²	CUDDLE II LED D4i x2 72	72 W	79 W	1000 mA	3500 K	11350 lm	9700 lm	123 lm/W	1 ↑ / 1 ↓	5.6 kg
2225435/4/... ²	CUDDLE II LED D4i x2 72	72 W	79 W	1000 mA	4000 K	12100 lm	10300 lm	130 lm/W	1 ↑ / 1 ↓	5.6 kg
2225435/6/... ²	CUDDLE II LED D4i x2 72	72 W	79 W	1000 mA	5000 K	12100 lm	10300 lm	130 lm/W	1 ↑ / 1 ↓	5.6 kg
2225437/1/... ²	CUDDLE II LED D4i x2 96	96 W	105 W	500 mA	2700 K	16000 lm	13650 lm	130 lm/W	1 ↑ / 1 ↓	7.8 kg
2225437/3/... ²	CUDDLE II LED D4i x2 96	96 W	105 W	500 mA	3500 K	16950 lm	14450 lm	138 lm/W	1 ↑ / 1 ↓	7.8 kg
2225437/4/... ²	CUDDLE II LED D4i x2 96	96 W	105 W	500 mA	4000 K	18000 lm	15350 lm	146 lm/W	1 ↑ / 1 ↓	7.8 kg
2225437/6/... ²	CUDDLE II LED D4i x2 96	96 W	105 W	500 mA	5000 K	18000 lm	15350 lm	146 lm/W	1 ↑ / 1 ↓	7.8 kg
2225439/1/... ²	CUDDLE II LED D4i x2 120	120 W	129 W	625 mA	2700 K	19250 lm	16400 lm	127 lm/W	1 ↑ / 1 ↓	7.8 kg
2225439/3/... ²	CUDDLE II LED D4i x2 120	120 W	129 W	625 mA	3500 K	20500 lm	17450 lm	135 lm/W	1 ↑ / 1 ↓	7.8 kg
2225439/4/... ²	CUDDLE II LED D4i x2 120	120 W	129 W	625 mA	4000 K	21700 lm	18500 lm	143 lm/W	1 ↑ / 1 ↓	7.8 kg
2225439/6/... ²	CUDDLE II LED D4i x2 120	120 W	129 W	625 mA	5000 K	21700 lm	18500 lm	143 lm/W	1 ↑ / 1 ↓	7.8 kg
2225441/1/... ²	CUDDLE II LED D4i x2 144	144 W	154 W	750 mA	2700 K	22350 lm	19050 lm	124 lm/W	1 ↑ / 1 ↓	7.8 kg
2225441/3/... ²	CUDDLE II LED D4i x2 144	144 W	154 W	750 mA	3500 K	23750 lm	20250 lm	131 lm/W	1 ↑ / 1 ↓	7.8 kg
2225441/4/... ²	CUDDLE II LED D4i x2 144	144 W	154 W	750 mA	4000 K	25150 lm	21450 lm	139 lm/W	1 ↑ / 1 ↓	7.8 kg
2225441/6/... ²	CUDDLE II LED D4i x2 144	144 W	154 W	750 mA	5000 K	25150 lm	21450 lm	139 lm/W	1 ↑ / 1 ↓	7.8 kg
2225446/1/... ²	CUDDLE II LED D4i x2 192	192 W	205 W	1000 mA	2700 K	27850 lm	23750 lm	116 lm/W	1 ↑ / 1 ↓	7.8 kg
2225446/3/... ²	CUDDLE II LED D4i x2 192	192 W	205 W	1000 mA	3500 K	29600 lm	25250 lm	123 lm/W	1 ↑ / 1 ↓	7.8 kg
2225446/4/... ²	CUDDLE II LED D4i x2 192	192 W	205 W	1000 mA	4000 K	31350 lm	26700 lm	130 lm/W	1 ↑ / 1 ↓	7.8 kg

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2223440/0/... CUDDLE II LED D4i x2 192 192 W 203 W 1000 l/m 3000 K 31330 l/m 20700 l/m 130 l/m/W 1 1 / 1 + 7.0 kg

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

2) symbol of chosen optical system eg. 2225033/6/T2 is CUDDLE II LED 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 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: 2225033/7/P2 - CUDDLE II LED 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

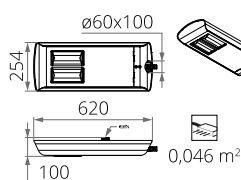
REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

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:

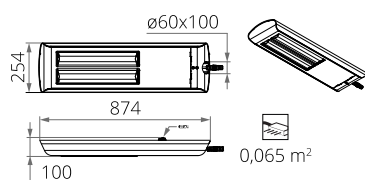
- functional grounding
- LED luminaire with an additional protection device

TECHNICAL DRAWING

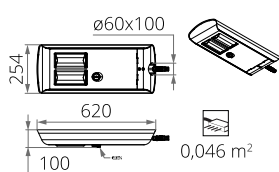
CUDDLE II LED D4i 48-72 W



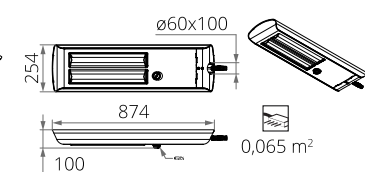
CUDDLE II LED D4i 96-192 W



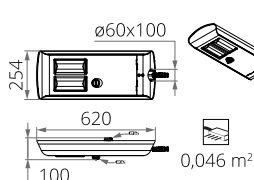
CUDDLE II LED D4i D 48-72 W



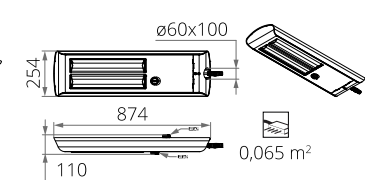
CUDDLE II LED D4i D 96-192 W



CUDDLE II LED D4i x2 47-72 W

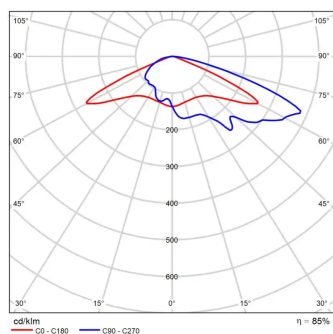


CUDDLE II LED D4i x2 96-192 W

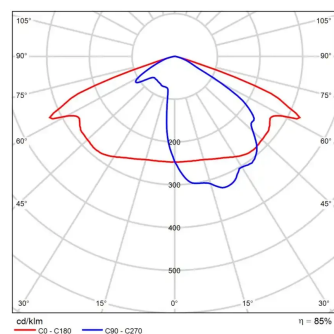


PHOTOMETRIC CURVES

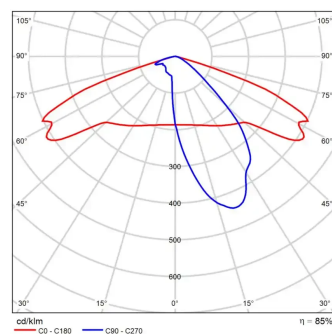
T4



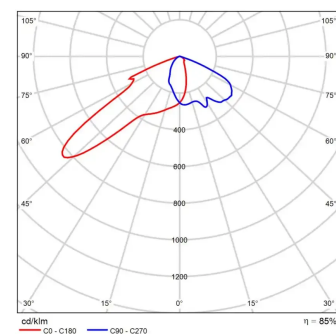
T3



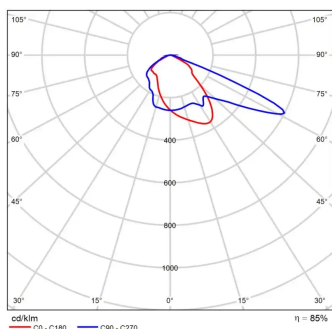
T2



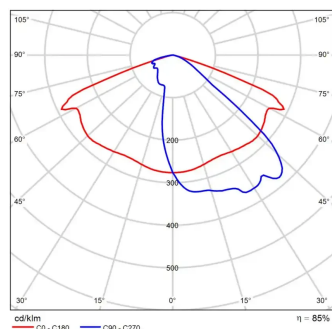
PL



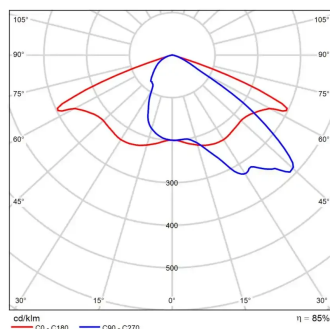
P2



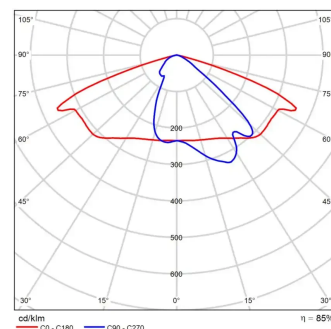
ME



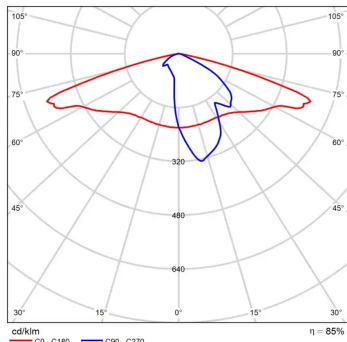
LW



LM



DW



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,

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 D4i 48W	4	9	13	23	37	46	58
CUDDLE II LED D4i 60W	4	9	13	23	37	46	58
CUDDLE II LED D4i 72W	4	9	13	23	37	46	58
CUDDLE II LED D4i 96W	2	4	7	11	19	23	29
CUDDLE II LED D4i 120W	2	4	7	11	19	23	29
CUDDLE II LED D4i 144W	2	4	7	11	19	23	29
CUDDLE II LED 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