BELLA LED D4I



IP66 | 220-240V AC | 10kV | DALI | IK08 | AI | -40° +40°

TECHNICAL DATA

Anodising	10 colours
Assembly	on extension arms, columns with extension arms with ⌀ 60 x 50 mm ending
Application	surrounding office buildings, parks, pedestrians, parkings
Colour	black / champagne
Ingress protection	IP 66
Optical system	PMMA optics, interchangeable LED module
Material	top cover and body – formed anodized aluminum sheet diffuser – tempered glass
Unit volume	0,17 m³
Operating temperature range	from -40°C to +40°C
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Inrush current	24,6 A / 159,5 µs (24 W - 36 W) 49 A / 290 µs (48 W) 96 A / 120 µs (60 W) 24 A / 60 µs (72 W - 96 W) 192 A / 120 µs (120 W)
Input voltage frequency	50 - 60Hz
Power factor	≥0,95
Number of LED	16 (24 W, 36 W, 48 W, 60 W) 32 (72 W, 96 W, 120 W)
Control system	Luminaire can be connected to an external control system and / or sensors via socket compatible with Zhaga Book 18

QUALITY LABEL INTERNATIONAL FOR ANODISING ARCHITECTURE Qualanod

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]	Net weight
2123530/1/...[2]	BELLA LED D4i 48	24 W	26 W	250 mA	2700 K	4250 lm	3550 lm	137 lm/W	7 kg
2123530/3/...[2]	BELLA LED D4i 48	24 W	26 W	250 mA	3500 K	4450 lm	3700 lm	142 lm/W	7 kg
2123530/4/...[2]	BELLA LED D4i 48	24 W	26 W	250 mA	4000 K	4600 lm	3800 lm	146 lm/W	7 kg
2123530/6/...[2]	BELLA LED D4i 48	24 W	26 W	250 mA	5000 K	4500 lm	3750 lm	144 lm/W	7 kg
2123532/1/...[2]	BELLA LED D4i 48	36 W	39 W	375 mA	2700 K	6200 lm	5150 lm	132 lm/W	7 kg
2123532/3/...[2]	BELLA LED D4i 48	36 W	39 W	375 mA	3500 K	6500 lm	5400 lm	138 lm/W	7 kg
2123532/4/...[2]	BELLA LED D4i 48	36 W	39 W	375 mA	4000 K	6650 lm	5500 lm	141 lm/W	7 kg
2123532/6/...[2]	BELLA LED D4i 60	36 W	39 W	375 mA	5000 K	6550 lm	5450 lm	140 lm/W	7 kg
2123533/1/...[2]	BELLA LED D4i 48	48 W	55 W	500 mA	2700 K	7950 lm	6600 lm	120 lm/W	7 kg
2123533/3/...[2]	BELLA LED D4i 48	48 W	55 W	500 mA	3500 K	8300 lm	6900 lm	125 lm/W	7 kg
2123533/4/...[2]	BELLA LED D4i 48	48 W	55 W	500 mA	4000 K	8550 lm	7100 lm	129 lm/W	7 kg
2123533/6/...[2]	BELLA LED D4i 48	48 W	55 W	500 mA	5000 K	8450 lm	7000 lm	127 lm/W	7 kg
2123534/1/...[2]	BELLA LED D4i 60	60 W	67 W	625 mA	2700 K	9650 lm	8000 lm	119 lm/W	7 kg
2123534/3/...[2]	BELLA LED D4i 60	60 W	67 W	625 mA	3500 K	10100 lm	8400 lm	125 lm/W	7 kg
2123534/4/...[2]	BELLA LED D4i 60	60 W	67 W	625 mA	4000 K	10350 lm	8600 lm	128 lm/W	7 kg
2123534/6/...[2]	BELLA LED D4i 60	60 W	67 W	625 mA	5000 K	10250 lm	8500 lm	127 lm/W	7 kg
2123535/1/...[2]	BELLA LED D4i 72	72 W	79 W	375 mA	2700 K	12400 lm	10300 lm	130 lm/W	7,2 kg
2123535/3/...[2]	BELLA LED D4i 72	72 W	79 W	375 mA	3500 K	13000 lm	10800 lm	137 lm/W	7,2 kg
2123535/4/...[2]	BELLA LED D4i 72	72 W	79 W	375 mA	4000 K	13300 lm	11000 lm	139 lm/W	7,2 kg
2123535/6/...[2]	BELLA LED D4i 72	72 W	79 W	375 mA	5000 K	13100 lm	10900 lm	138 lm/W	7,2 kg
2123537/1/...[2]	BELLA LED D4i 96	96 W	105 W	500 mA	2700 K	15900 lm	13200 lm	126 lm/W	7,2 kg
2123537/3/...[2]	BELLA LED D4i 96	96 W	105 W	500 mA	3500 K	16600 lm	13800 lm	131 lm/W	7,2 kg
2123537/4/...[2]	BELLA LED D4i 96	96 W	105 W	500 mA	4000 K	17100 lm	14200 lm	135 lm/W	7,2 kg
2123537/6/...[2]	BELLA LED D4i 96	96 W	105 W	500 mA	5000 K	16900 lm	14000 lm	133 lm/W	7,2 kg
2123539/1/...[2]	BELLA LED D4i 120	120 W	129 W	625 mA	2700 K	19300 lm	16000 lm	124 lm/W	7,4 kg

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BELLA LED D4I

2123539/3/...[2]	BELLA LED D4i 120	120 W	129 W	625 mA	3500 K	20200 lm	16800 lm	130 lm/W	7,4 kg
2123539/4/...[2]	BELLA LED D4i 120	120 W	129 W	625 mA	4000 K	20700 lm	17200 lm	133 lm/W	7,4 kg
2123539/6/...[2]	BELLA LED D4i 120	120 W	129 W	625 mA	5000 K	20500 lm	17000 lm	132 lm/W	7,4 kg

1) tolerance +/- 5% due to LEDs accuracy
2) symbol of chosen optical system eg. 2123533/6/T3 is BELLA LED D4i 48 5000K with T3optical system

DIRECTIVES AND STANDARDS

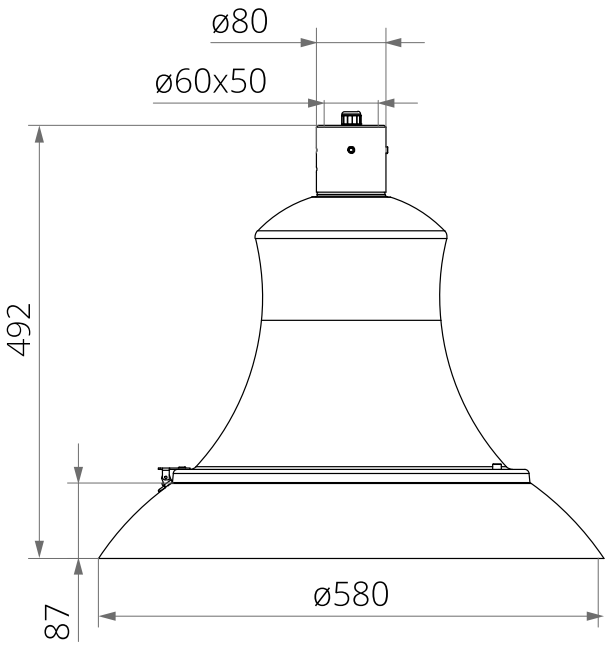
DIRECTIVES: 2014/35/UE (Official Journal of the UE L 96/357 29.03.2014), 2014/30/UE (Official Journal of the UE L 96/79 29.03.2014), 2011/65/UE RoHS (Official Journal of the UE L 174/88 01.07.2011), 2009/125/EC(Official Journal of the UE L 285/10 31.10.2009)
STANDARDS: PN-EN IEC 60598-1: 2021-7, PN-EN 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

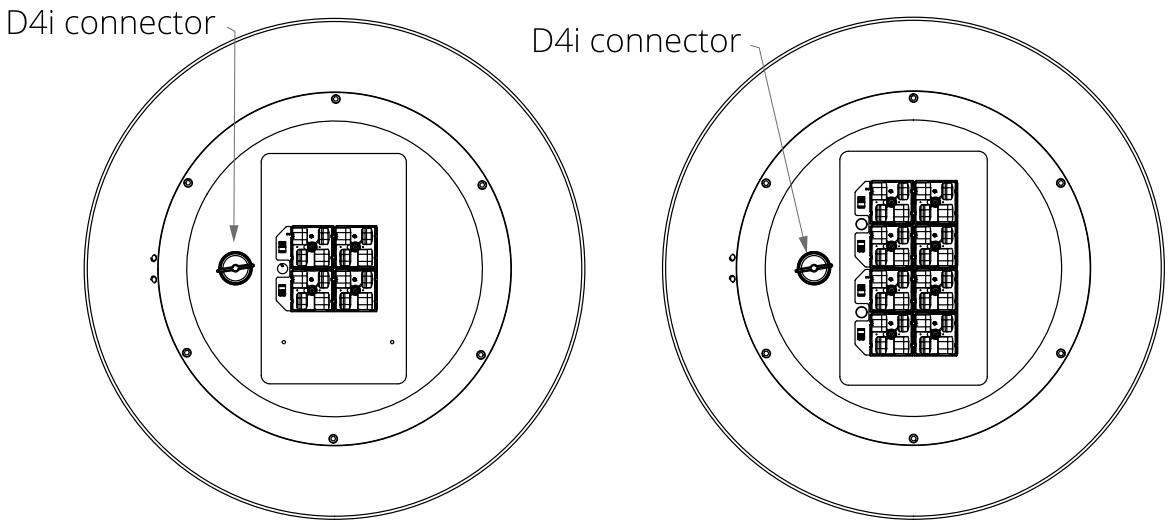
Lighting parameters presented based on laboratory tests according to IESNA LM-79-19

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



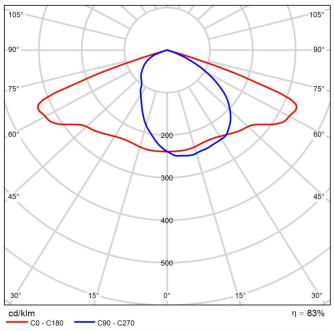


PHOTOMETRIC CURVES

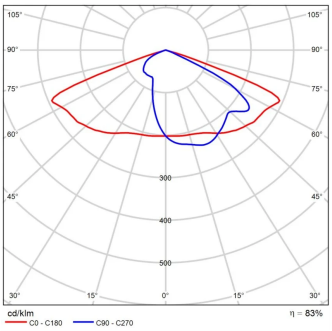
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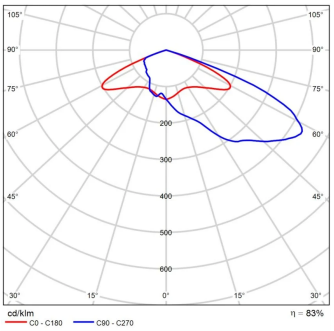
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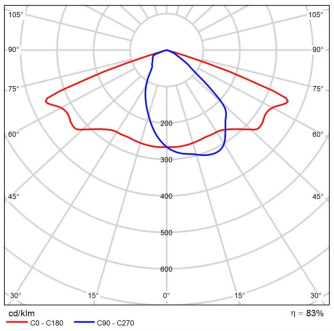
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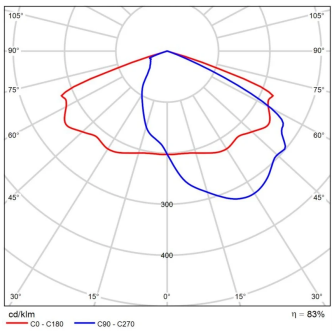
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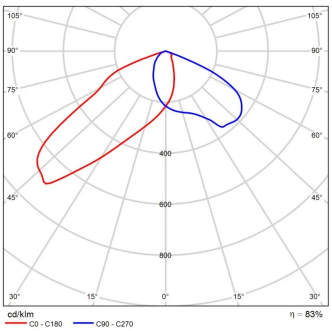
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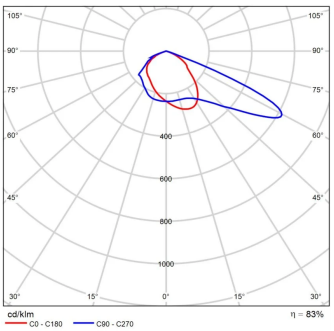
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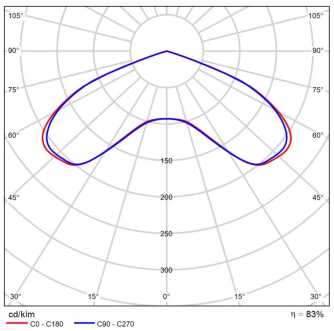
PL



P2



VS



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

Miniature circuit breakers (MCB), type B or C

Luminaire	Type	2A	4A	6A	10A	16A	20A	25A
BELLA LED D4i 24 - 36 W	B	4	7	12	18	30	37	46
	C	4	12	18	31	51	62	78
BELLA LED D4i 48 W	B	5	10	16	26	42	52	65
	C	5	13	20	34	54	68	85
BELLA LED D4i 60 W	B	1	2	4	6	10	12	15
	C	1	4	6	10	17	20	26
BELLA LED D4i 72 - 96 W	B	2	5	8	12	20	25	31
	C	2	7	10	17	28	35	43
BELLA LED D4i 120 W	B	0	1	2	3	5	6	7
	C	0	2	3	5	8	10	13

Fuses—type gG and gL

Luminaire	2A	4A	6A	10A	16A	20A	25A
BELLA LED D4i 24 - 36 W	1	10	19	26	50	69	98
BELLA LED D4i 48 W	0	3	7	9	18	25	36
BELLA LED D4i 60 W	0	3	5	7	15	20	29
BELLA LED D4i 72 - 96 W	3	7	10	17	28	35	43
BELLA LED D4i 120 W	0	1	2	3	7	10	14

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