

TECHNICAL DATA

Assembly	on extension arms, wall brackets, columns with extension arms with ø 42 x 40 mm ending
Application	urban roads, residential roads (internal), parks, pedestrians, parkings
Colour	black
Ingress protection	IP 66
Optical system	PMMA optics, interchangeable LED module, tempered glass diffuser
Material	body and cap – anodised aluminium formed sheet metal
Unit volume	0,16 m³
Operating temperature range	from -40°C to +40°C
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Inrush current	49A / 290 µs
Input voltage frequency	50/60Hz
Power factor	≥0.95
Number of LED	24
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	Net weight
21080530/1/...²	OW+ LED D4i 24	24 W	28 W	350 mA	2700 K	4450 lm	3650 lm	130 lm/W	7.62 kg
21080530/3/...²	OW+ LED D4i 24	24 W	28 W	350 mA	3500 K	4700 lm	3850 lm	138 lm/W	7.62 kg
21080530/4/...²	OW+ LED D4i 24	24 W	28 W	350 mA	4000 K	5000 lm	4050 lm	145 lm/W	7.62 kg
21080530/6/...²	OW+ LED D4i 24	24 W	28 W	350 mA	5000 K	5000 lm	4050 lm	145 lm/W	7.62 kg
21080532/1/...²	OW+ LED D4i 36	36 W	40 W	500 mA	2700 K	6100 lm	4950 lm	124 lm/W	7.62 kg
21080532/3/...²	OW+ LED D4i 36	36 W	40 W	500 mA	3500 K	6450 lm	5250 lm	131 lm/W	7.62 kg
21080532/4/...²	OW+ LED D4i 36	36 W	40 W	500 mA	4000 K	6850 lm	5600 lm	140 lm/W	7.62 kg
21080532/6/...²	OW+ LED D4i 36	36 W	40 W	500 mA	5000 K	6850 lm	5600 lm	140 lm/W	7.62 kg
21080533/1/...²	OW+ LED D4i 48	48 W	55 W	700 mA	2700 K	8150 lm	6650 lm	121 lm/W	7.62 kg
21080533/3/...²	OW+ LED D4i 48	48 W	55 W	700 mA	3500 K	8650 lm	7050 lm	128 lm/W	7.62 kg
21080533/4/...²	OW+ LED D4i 48	48 W	55 W	700 mA	4000 K	9150 lm	7450 lm	135 lm/W	7.62 kg
21080533/6/...²	OW+ LED D4i 48	48 W	55 W	700 mA	5000 K	9150 lm	7450 lm	135 lm/W	7.62 kg
21080534/1/...²	OW+ LED D4i 60	60 W	67 W	830 mA	2700 K	9300 lm	7550 lm	113 lm/W	7.62 kg
21080534/3/...²	OW+ LED D4i 60	60 W	67 W	830 mA	3500 K	9850 lm	8000 lm	119 lm/W	7.62 kg
21080534/4/...²	OW+ LED D4i 60	60 W	67 W	830 mA	4000 K	10450 lm	8500 lm	127 lm/W	7.62 kg
21080534/6/...²	OW+ LED D4i 60	60 W	67 W	830 mA	5000 K	10450 lm	8500 lm	127 lm/W	7.62 kg
21080535/1/...²	OW+ LED D4i 72	72 W	79 W	1000 mA	2700 K	10700 lm	8700 lm	110 lm/W	7.62 kg
21080535/3/...²	OW+ LED D4i 72	72 W	79 W	1000 mA	3500 K	11350 lm	9250 lm	117 lm/W	7.62 kg
21080535/4/...²	OW+ LED D4i 72	72 W	79 W	1000 mA	4000 K	12100 lm	9850 lm	125 lm/W	7.62 kg
21080535/6/...²	OW+ LED D4i 72	72 W	79 W	1000 mA	5000 K	12100 lm	9850 lm	125 lm/W	7.62 kg

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

2) symbol of chosen optical system eg. 21080533/6/T2 is OW+ LED D4i 48 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, PN-EN 62722-2-1 (tq=25°C)

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

REMOVING ELECTROSTATIC CHARGE FROM LED LUMINAIRE BODY

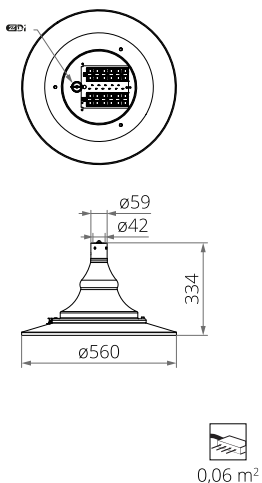
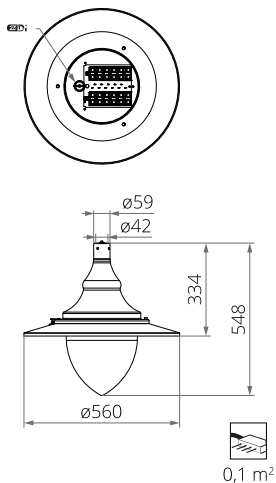
In order to efficient discharge the electrostatic charge from the housing of LED fitting installed on the pole from dielectric material (non-conductive) one of the following solutions is required:

- functional grounding
- LED luminaire with an additional protection device

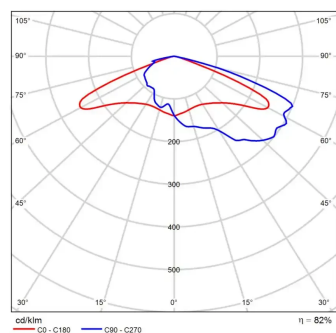
TECHNICAL DRAWING

OPTIONAL VERSION
OW+ LED D4i WITH DIFFUSER

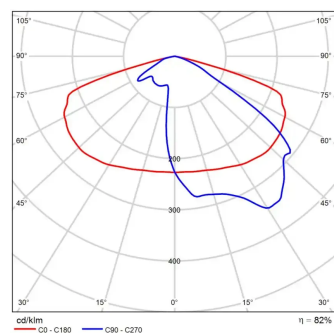
OW+ LED D4i



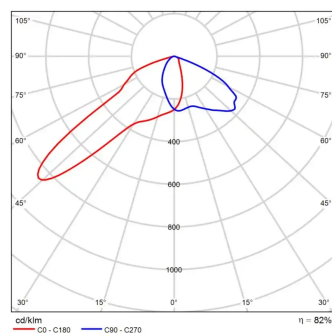
T4



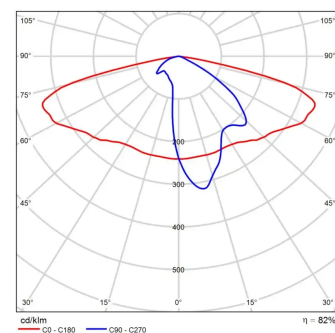
T3



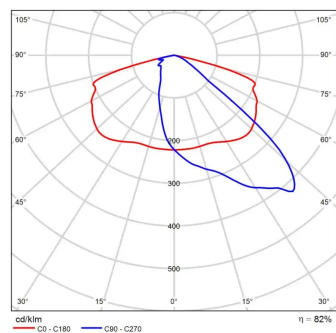
T2



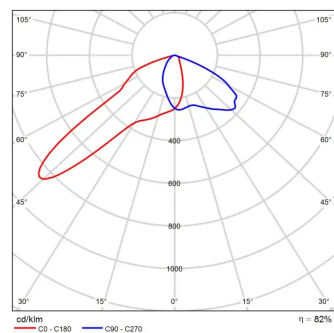
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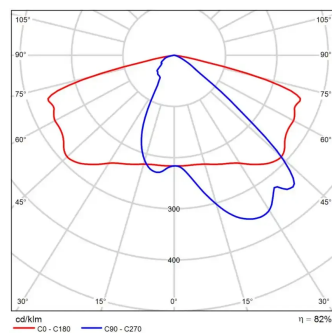
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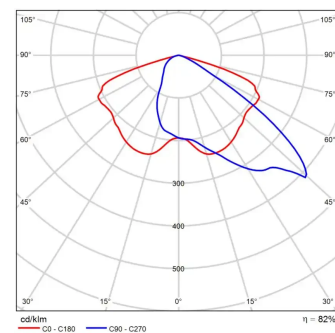
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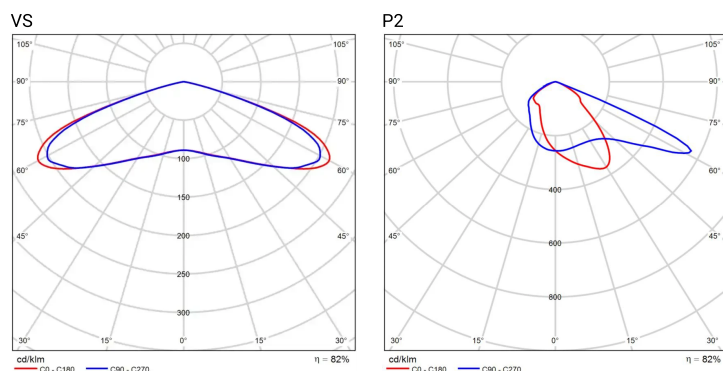


LM



LW





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	Type	2A	4A	6A	10A	16A	20A	25A
OW+ LED D4i	B	3	7	11	18	30	36	46
	C	3	7	11	18	30	36	46

Fuse – type gG and GL

Luminaire	2A	4A	6A	10A	16A	20A	25A
OW+ LED D4i	6	13	20	33	53	66	83

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

OW LED LUMINAIRE DIFFUSER



Code	Name	Unit volume	Weight
690893	Transparent diffuser (PMMA) for OW LED luminaire	0,02m ³	0,55kg
690898	Frosted diffuser (PMMA) for OW LED luminaire	0,02m ³	0,55kg