

KARIN 2400-4800 LED



TECHNICAL DATA

Anodising	10 colours
Diffuser	frosted (PMMA)
Application	surrounding office buildings, parks, pedestrians
Ingress protection	IP 65 for the optical part and the driver
Material	anodised aluminium alloy
Expected useful lifetime	L90B10 - 100 000 h
CRI	>70
Inrush current	46 A / 250 μs
Input voltage frequency	50/60Hz
Number of LED	16 (KARIN 2400 LED), 24 (KARIN 3600 - 4800 LED)
Control system	Luminaire has the possibility to connect to an external control system via analog signal 1- 10V.
Diameter D	150 mm (KARIN 2400 LED), 180 mm (KARIN 3600 - 4800 LED)
Diameter E	150 mm (KARIN 2400 LED), 170 mm (KARIN 3600 - 4800 LED)

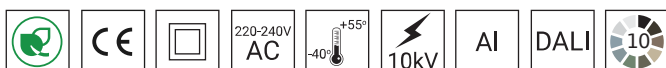


TABLE OF VARIANTS

Code	Symbol	Height of the column [H]	LED power	Luminaire power consumption	LED forward current	Colour temperature (CCT)	LEDs luminous flux¹	Luminaire luminous flux¹	Luminous efficacy¹	Concrete footing / reinforcement basket type	Net weight
45240/1/C...	KARIN 2400 LED 32W	2 400 mm	32 W	38 W	700 mA	2700 K	5400 lm	3250 lm	86 lm/W	B-50 / Z-50	12 kg
45240/3/C...	KARIN 2400 LED 32W	2 400 mm	32 W	38 W	700 mA	3500 K	5750 lm	3450 lm	91 lm/W	B-50 / Z-50	12 kg
45240/4/C...	KARIN 2400 LED 32W	2 400 mm	32 W	38 W	700 mA	4000 K	6050 lm	3650 lm	96 lm/W	B-50 / Z-50	12 kg
45240/6/C...	KARIN 2400 LED 32W	2 400 mm	32 W	38 W	700 mA	5000 K	6050 lm	3650 lm	96 lm/W	B-50 / Z-50	12 kg
45250/1/C...	KARIN 3600 LED 48W	3 600 mm	48 W	55 W	700 mA	2700 K	8150 lm	4900 lm	89 lm/W	B-60 / Z-60	26 kg
45250/3/C...	KARIN 3600 LED 48W	3 600 mm	48 W	55 W	700 mA	3500 K	8650 lm	5200 lm	95 lm/W	B-60 / Z-60	26 kg
45250/4/C...	KARIN 3600 LED 48W	3 600 mm	48 W	55 W	700 mA	4000 K	9150 lm	5500 lm	100 lm/W	B-60 / Z-60	26 kg
45250/6/C...	KARIN 3600 LED 48W	3 600 mm	48 W	55 W	700 mA	5000 K	9150 lm	5500 lm	100 lm/W	B-60 / Z-60	26 kg
45254/1/C...	KARIN 4800 LED 48W	4 800 mm	48 W	55 W	700 mA	2700 K	8150 lm	4900 lm	89 lm/W	B-60 / Z-60	32 kg
45254/3/C...	KARIN 4800 LED 48W	4 800 mm	48 W	55 W	700 mA	3500 K	8650 lm	5200 lm	95 lm/W	B-60 / Z-60	32 kg
45254/4/C...	KARIN 4800 LED 48W	4 800 mm	48 W	55 W	700 mA	4000 K	9150 lm	5500 lm	100 lm/W	B-60 / Z-60	32 kg
45254/6/C...	KARIN 4800 LED 48W	4 800 mm	48 W	55 W	700 mA	5000 K	9150 lm	5500 lm	100 lm/W	B-60 / Z-60	32 kg

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

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)

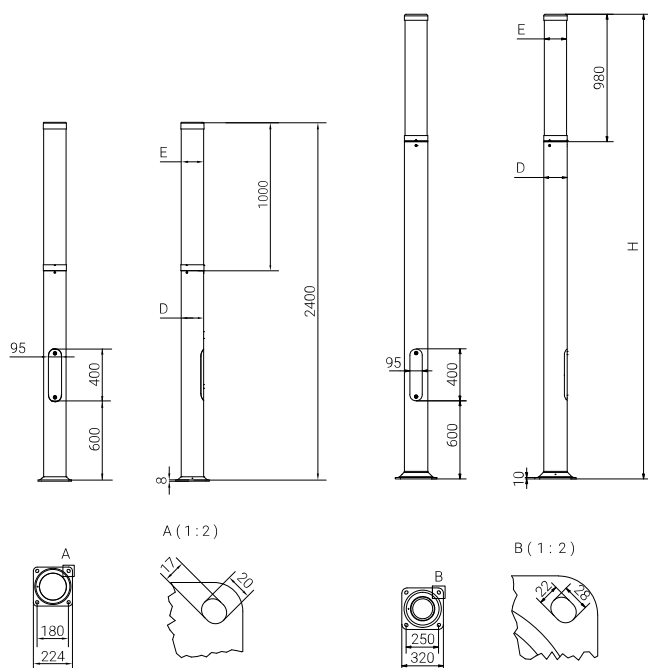
STANDARDS: PN-EN IEC 60598-1: 2021-7, PN-EN 60598-2-3: 2006, PN-EN 60529: 2003, PN-EN 62262: 2003, PN-EN 62471:2010, PN-EN 55015: 2019, PN-EN 61547: 2009, PN-EN 61000-3-2: 2019 , PN-EN 61000-3-3: 2014

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

KARIN 2400-4800 LED

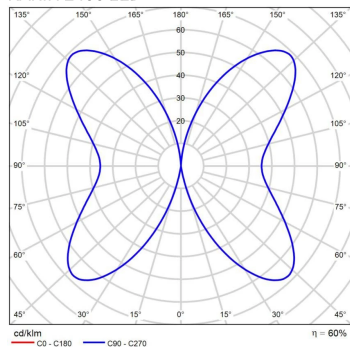


TECHNICAL DRAWING

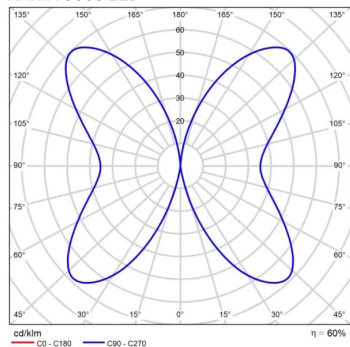


PHOTOMETRIC CURVES

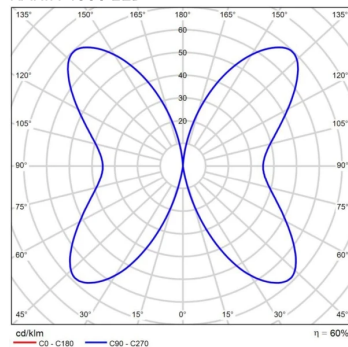
KARIN 2400 LED



KARIN 3600 LED



KARIN 4800 LED



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,
- 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

Lighting columns	Typ	2A	4A	6A	10A	16A	20A	25A
KARIN 2400-4800 LED	B	1	2	4	6	10	12	15
	C	1	4	6	10	17	20	26

Fuse – type gG and GL

Lighting columns	2A	4A	6A	10A	16A	20A	25A
KARIN 2400-4800 LED	0	4	8	11	22	31	44