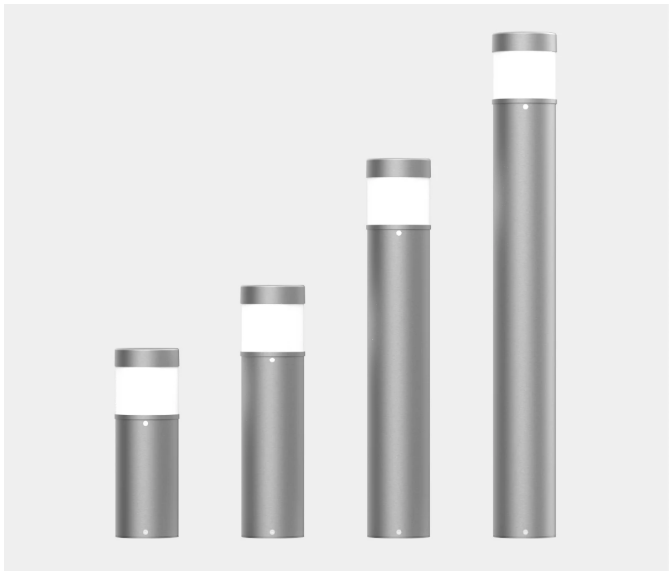


TECHNICAL DATA

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
Input voltage frequency	50/60Hz
Number of LED	8

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	Inrush current	Diameter [D]	Net weight
452008/1/C...	KARIN 450 LED 8	455 mm	8 W	12 W	350 mA	2700 K	1450 lm	950 lm	79 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3 kg
452008/3/C...	KARIN 450 LED 8	455 mm	8 W	12 W	350 mA	3500 K	1550 lm	1000 lm	83 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3 kg
452008/4/C...	KARIN 450 LED 8	455 mm	8 W	12 W	350 mA	4000 K	1650 lm	1050 lm	88 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3 kg
452008/6/C...	KARIN 450 LED 8	455 mm	8 W	12 W	350 mA	5000 K	1650 lm	1050 lm	88 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3 kg
45200/1/C...	KARIN 450 LED 16	455 mm	16 W	20 W	700 mA	2700 K	2700 lm	1700 lm	85 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3 kg
45200/3/C...	KARIN 450 LED 16	455 mm	16 W	20 W	700 mA	3500 K	2850 lm	1850 lm	93 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3 kg
45200/4/C...	KARIN 450 LED 16	455 mm	16 W	20 W	700 mA	4000 K	3050 lm	1950 lm	98 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3 kg
45200/6/C...	KARIN 450 LED 16	455 mm	16 W	20 W	700 mA	5000 K	3050 lm	1950 lm	98 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3 kg
452108/1/C...	KARIN 600 LED 8	575 mm	8 W	12 W	350 mA	2700 K	1450 lm	950 lm	79 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3.5 kg
452108/3/C...	KARIN 600 LED 8	575 mm	8 W	12 W	350 mA	3500 K	1550 lm	1000 lm	83 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3.5 kg
452108/4/C...	KARIN 600 LED 8	575 mm	8 W	12 W	350 mA	4000 K	1650 lm	1050 lm	88 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3.5 kg
452108/6/C...	KARIN 600 LED 8	575 mm	8 W	12 W	350 mA	5000 K	1650 lm	1050 lm	88 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3.5 kg
45210/1/C...	KARIN 600 LED 16	575 mm	16 W	20 W	700 mA	2700 K	2700 lm	1700 lm	85 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3.5 kg
45210/3/C...	KARIN 600 LED 16	575 mm	16 W	20 W	700 mA	3500 K	2850 lm	1850 lm	93 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3.5 kg
45210/4/C...	KARIN 600 LED 16	575 mm	16 W	20 W	700 mA	4000 K	3050 lm	1950 lm	98 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3.5 kg
45210/6/C...	KARIN 600 LED 16	575 mm	16 W	20 W	700 mA	5000 K	3050 lm	1950 lm	98 lm/W	B-0 / Z-0	70A / 220µs	150 mm	3.5 kg
452208/1/C...	KARIN 900 LED 8	875 mm	8 W	12 W	350 mA	2700 K	1450 lm	950 lm	79 lm/W	B-0 / Z-0	70A / 220µs	150 mm	4.2 kg
452208/3/C...	KARIN 900 LED 8	875 mm	8 W	12 W	350 mA	3500 K	1550 lm	1000 lm	83 lm/W	B-0 / Z-0	70A / 220µs	150 mm	4.2 kg
452208/4/C...	KARIN 900 LED 8	875 mm	8 W	12 W	350 mA	4000 K	1650 lm	1050 lm	88 lm/W	B-0 / Z-0	70A / 220µs	150 mm	4.2 kg
452208/6/C...	KARIN 900 LED 8	875 mm	8 W	12 W	350 mA	5000 K	1650 lm	1050 lm	88 lm/W	B-0 / Z-0	70A / 220µs	150 mm	4.2 kg

Model / Code	Power LED	Length	Power	Beam	Current	Temp	Light 1	Light 2	Efficiency	Beam Angle	Beam Diameter	Beam Length	Weight
45220/1/C...	KARIN 900 LED 16	875 mm	16 W	20 W	700 mA	2700 K	2700 lm	1700 lm	85 lm/W	B-0 / Z-0	70A / 220µs	150 mm	4.2 kg
45220/3/C...	KARIN 900 LED 16	875 mm	16 W	20 W	700 mA	3500 K	2850 lm	1850 lm	93 lm/W	B-0 / Z-0	70A / 220µs	150 mm	4.2 kg
45220/4/C...	KARIN 900 LED 16	875 mm	16 W	20 W	700 mA	4000 K	3050 lm	1950 lm	98 lm/W	B-0 / Z-0	70A / 220µs	150 mm	4.2 kg
45220/6/C...	KARIN 900 LED 16	875 mm	16 W	20 W	700 mA	5000 K	3050 lm	1950 lm	98 lm/W	B-0 / Z-0	70A / 220µs	150 mm	4.2 kg
452308/1/C...	KARIN 1200 LED 8	1 175 mm	8 W	12 W	350 mA	2700 K	1450 lm	950 lm	79 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	5.5 kg
452308/3/C...	KARIN 1200 LED 8	1 175 mm	8 W	12 W	350 mA	3500 K	1550 lm	1000 lm	83 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	5.5 kg
452308/4/C...	KARIN 1200 LED 8	1 175 mm	8 W	12 W	350 mA	4000 K	1650 lm	1050 lm	88 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	5.5 kg
452308/6/C...	KARIN 1200 LED 8	1 175 mm	8 W	12 W	350 mA	5000 K	1650 lm	1050 lm	88 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	5.5 kg
45230/1/C...	KARIN 1200 LED 16	1 175 mm	16 W	20 W	700 mA	2700 K	2700 lm	1700 lm	85 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	5.5 kg
45230/3/C...	KARIN 1200 LED 16	1 175 mm	16 W	20 W	700 mA	3500 K	2850 lm	1850 lm	93 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	5.5 kg
45230/4/C...	KARIN 1200 LED 16	1 175 mm	16 W	20 W	700 mA	4000 K	3050 lm	1950 lm	98 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	5.5 kg
45230/6/C...	KARIN 1200 LED 16	1 175 mm	16 W	20 W	700 mA	5000 K	3050 lm	1950 lm	98 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	5.5 kg
452328/1/C...	KARIN 1200W LED 8	1 175 mm	8 W	12 W	350 mA	2700 K	1450 lm	950 lm	79 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	6.8 kg
452328/3/C...	KARIN 1200W LED 8	1 175 mm	8 W	12 W	350 mA	3500 K	1550 lm	1000 lm	83 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	6.8 kg
452328/4/C...	KARIN 1200W LED 8	1 175 mm	8 W	12 W	350 mA	4000 K	1650 lm	1050 lm	88 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	6.8 kg
452328/6/C...	KARIN 1200W LED 8	1 175 mm	8 W	12 W	350 mA	5000 K	1650 lm	1050 lm	88 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	6.8 kg
45232/1/C...	KARIN 1200W LED 16	1 175 mm	16 W	20 W	700 mA	2700 K	2700 lm	1700 lm	85 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	6.8 kg
45232/3/C...	KARIN 1200W LED 16	1 175 mm	16 W	20 W	700 mA	3500 K	2850 lm	1850 lm	93 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	6.8 kg
45232/4/C...	KARIN 1200W LED 16	1 175 mm	16 W	20 W	700 mA	4000 K	3050 lm	1950 lm	98 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	6.8 kg
45232/6/C...	KARIN 1200W LED 16	1 175 mm	16 W	20 W	700 mA	5000 K	3050 lm	1950 lm	98 lm/W	B-0A / Z-0A	70A / 220µs	150 mm	6.8 kg

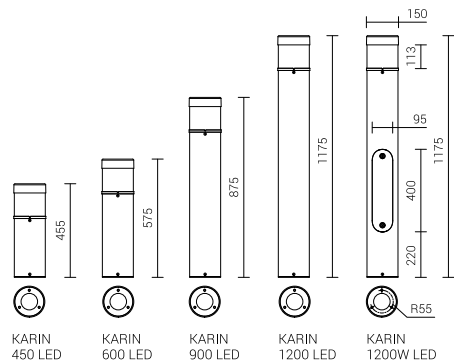
1) tolerance +/- 7% due to LEDs accuracy

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

TECHNICAL DRAWING

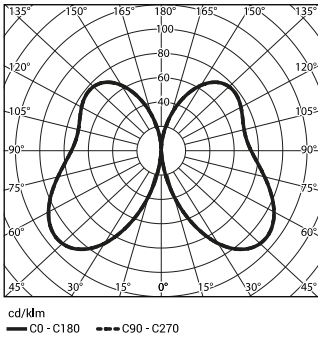


PHOTOMETRIC CURVES

KARIN LED 450-1200



KARIN LED 450-1200



ACCECTABLE QUANTITY OF LUMINAIRES ON ONE CIRCUIT

Overcurrent switches MCB type B or C

Lighting columns	Typ	2A	4A	6A	10A	16A	20A	25A
KARIN LED 450-1200	B	1	2	3	5	8	10	12
	C	1	3	5	8	13	16	20

Fuse – type gG and GL

Lighting columns	2A	4A	6A	10A	16A	20A	25A
KARIN LED 450-1200	0	3	5	7	15	20	29