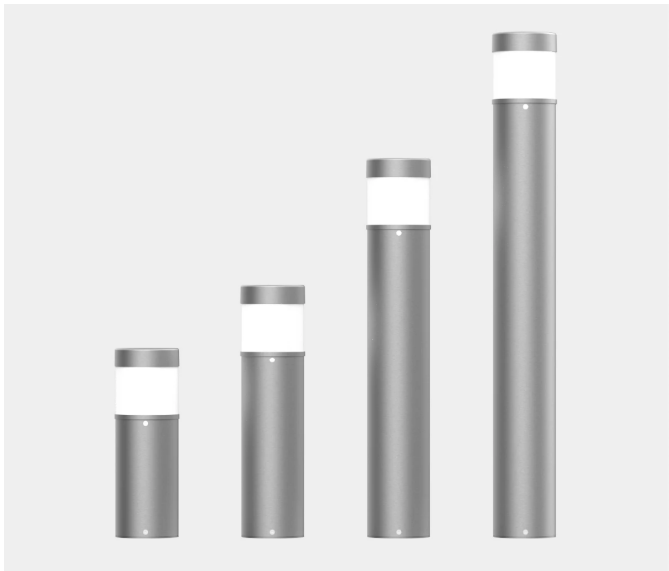


DANE TECHNICZNE

|                                  |                                                     |
|----------------------------------|-----------------------------------------------------|
| Anodowanie                       | 10 kolorów                                          |
| Klosz                            | mrożony (PMMA)                                      |
| Zastosowanie                     | otoczenie budynków biurowych, parki, ciągi pieszych |
| Stopień ochrony                  | IP 65 dla części optycznej i układu zasilającego    |
| Materiał                         | stop aluminium, anodowany                           |
| Przewidywany czas eksploatacji   | L90B10 - 100 000 h                                  |
| Współczynnik oddawania barw CRI  | >70                                                 |
| Prąd rozruchowy                  | 70 A / 220 µs                                       |
| Częstotliwość napięcia zasilania | 50 - 60Hz                                           |
| Liczba diod                      | 8                                                   |
| Średnica D                       | 150 mm                                              |



TABELA WARIANTÓW

| Kod           | Nazwa             | Wysokość H | Moc LED | Moc całkowita | Prąd przewodzenia LED | Temperatura barwowa światła | Strumień świetlny LED¹ | Strumień świetlny¹ | Efektywność świetlna¹ | Typ fundamentu / kosza zbrojeniowego | Waga netto |
|---------------|-------------------|------------|---------|---------------|-----------------------|-----------------------------|------------------------|--------------------|-----------------------|--------------------------------------|------------|
| 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 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                            | 4.2 kg     |
| 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                            | 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                            | 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                            | 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                            | 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                          | 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                          | 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                          | 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                          | 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                          | 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                          | 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                          | 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                          | 5.5 kg     |

# KARIN 450-1200 LED



|               |                    |          |      |      |        |        |         |         |         |             |        |
|---------------|--------------------|----------|------|------|--------|--------|---------|---------|---------|-------------|--------|
| 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 | 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 | 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 | 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 | 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 | 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 | 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 | 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 | 6.8 kg |

1) ze względu na klasę dokładności diod tolerancja wartości wynosi +/- 7%

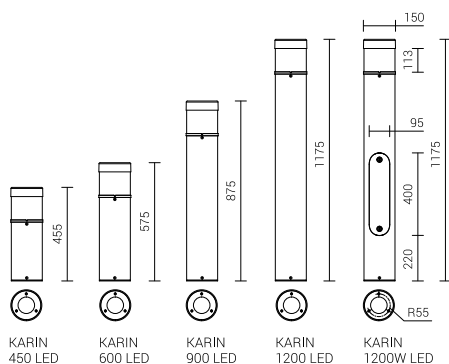
## DYREKTYWY I NORMY

**DYREKTYWY:** 2014/35/UE (Dz. Urz.UE L 96, 29.03.2014, str.357), 2014/30/UE (Dz. Urz.UE L 96, 29.03.2014, str.79), 2011/65/UE RoHS (Dz. Urz.UE L 174, 01.07.2011, str.88), 2009/125/WE (Dz. Urz.UE L 285, 31.10.2009, str.10)

**NORMY:** 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: 2013

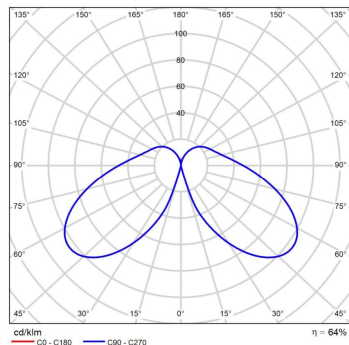
Parametry świetlne przedstawione na podstawie badań laboratoryjnych według IESNA LM-79-19

## RYSunEK TECHNICZNY



## KRZYWE FOTOMETRYCZNE

### KARIN 450-1200 LED



## DOPUSZCZALNA ILOŚĆ OPRAW NA JEDNYM OBWODZIE

Włączniki nadprądowe MCB typu B lub C

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

Bezpieczniki topikowe—typ gG i gL

| Kolumna oświetleniowa | 2A | 4A | 6A | 10A | 16A | 20A | 25A |
|-----------------------|----|----|----|-----|-----|-----|-----|
| KARIN 450-1200 LED    | 0  | 3  | 5  | 7   | 15  | 20  | 29  |