



Koffer² – economical system

Koffer² SGP100

Koffer² is an archetypal modern road lighting luminaire which meets the needs of today's road users and operators. Total cost over lifetime was a key consideration in the development of Koffer². The future-proof luminaire delivers outstanding optical performance, enabling optimum spacing and energy efficiency, and is easy to install and maintain. With its rectangular shape, Koffer² offers an alternative to rounded luminaires. It is available in three sizes – for mounting heights from 3.5 to 12 meters – and with dedicated masts and brackets, making it equally suitable for integration into modern urban environments or more traditional lighting designs. The Koffer² family accommodates CosmoPolis white-light technology and LED-enabled versions. Each Koffer² luminaire is fully recyclable; only the light source and driver have to be recycled separately.

Benefits

- Meets the needs of today's road users and operators, with an archetypal modern road lighting luminaire
- Highly versatile design with rectangular luminaire in two sizes for integration into futuristic concepts or more traditional lighting designs
- Focus on optimum total cost over lifetime - sound construction and low maintenance costs plus high optical performance and energy-efficiency

Features

- Warm-white Luxeon Rebel LEDs
- LifeLEDTM module – re-LEDing upgrade possible
- Simplified components platform

Application

- Residential areas
- Pavements and (cycle) paths

Specifications

Koffer² SGP100

Type	SGP100
Light source	HID: - 1 x MASTER CosmoWhite CPO-TW / PGZ12 / 60, 90, 140 W - 1 x MASTER CityWhite CDO-TT / E27 / 70 W - 1 x MASTER CityWhite CDO-TT / E40 / 100, 150, 250 W - 1 x CDO-ET / E27 / 70 W - 1 x CDO-ET / E40 / 100, 150, 250 W - 1 x MASTER SON-T PIA Plus / E27 / 70 W - 1 x MASTER SON-T PIA Plus / E40 / 100, 150, 250 W - 1 x SON / E27 / 70 W - 1 x SON / E40 / 100, 150, 250 W Compact fluorescent: - 2 x MASTER PL-L 4 Pin / 2G11 / 18 W Induction lamp system: - 1 x MASTER QL system / 55, 85 W
Lamp included	Yes (K or light color 827, 830 or 840) No
Mains supply	230 or 240 V
Gear and compensation	Electro magnetic (low loss), 230 or 240 V / 50 Hz: - Inductive (IN) Electronic, 220 - 240 V / 50 - 60 Hz: - Electronic (EB)

Specifications

Ignitor	Semi-parallel, digital (SND) Series digital ignitor (SUD)
Options	Lighting controls: Chronosense (CH) Light regulation: - Dimming switch (SW) - Dimming switch with reverse function (SWR) - Dimming via SDU01S (D4) - Dimming via SDU11S (D5) - Dimming via Telemanagement Starsense 1-10Vdc (D6) - Dimming via external communication 1-10Vdc (D7) Photocell: NEMA socket (P1), Minicell (P3) Filter coil (F) included Fuse (FU) included Knife-connector (KC) included Pre-equipped cables without plug connector: - cable lengths of: 6 m (C6K), 10 m (C12K)
Materials and finishing	Housing: aluminum Optical covers: acrylic or polycarbonate bowls, UV-stabilized or hardened glass, min IK08

Optic	Open CT-POT (OR) "Opti-O" easy lamp access for CosmoPolis, CDO and SON lamps Open XT-POT (OX) for SON lamps, gives extra wide spacing when the mast-height/road-width ratio is e.g. 10/7 or higher."Optic-O" concept Reflector, asymmetric left (R-A-L) pedestrian crossing left side asymmetric optic Reflector, asymmetric right (R-A-R) pedestrian crossing right side asymmetric optic
Optical cover	Glass bowl (GB) better spacing and better night preservation solution Glass bowl with DynaClean coating (GBD) on addition to GB the self-cleaning technology improve the maintenance factor Glass flat (FG), reduce glare and improve night nuisance Glass flat with DynaClean coating (FGD) acrylic bowl, frosted (ACF) no yellowing

Color	Grey (RAL 7035) or white (RAL 9006) Other RAL colors available on request (e.g. 7024)
Installation	Side-entry mounting: lateral entry Ø 48 / 60 mm Post-top mounting: axial entry Ø 60 / 76 mm Spigot is integrated, continuously variable Recommended mounting height: 6 - 12 m Standard tilt angle post top: 10° Adjustable tilt angle: n/a Adjustable light distribution: 7 positions Max windage area: 0.11 m Max SCx values by side: 0.054 m
Maintenance	Toolless from below. Opening by one main clip
Accessories	Front and back louvers, ZGP100 L-FRONT resp L-BACK Dedicated mast and pole brackets available for different mounting possibilities
Main applications	Roads, pedestrian and parking areas

Dimensional drawing

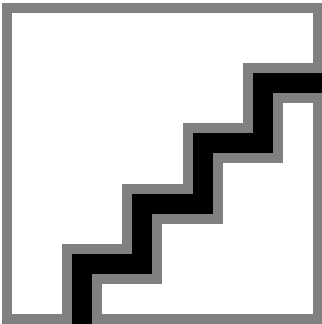
Product	A
SGP100 SON-T100W EBD II GB AL SI RF	179 mm
SGP100 SON-T150W II R-A-L GB	179 mm
SGP100 CDO-TT100W K II FG	149 mm
SGP100 CPO-TW60W K EB II GB	179 mm
SGP100 SON-T150W K 240V GB P1	179 mm
SGP100 SON-T100/150W II ACF	227 mm
SGP100 CPO-TW140W K EB II FG	149 mm
SGP100 SON-T100W EB GB P1	179 mm
SGP100 CPO-TW60W K EB II FG	149 mm
SGP100 SON-T150W K 240V FG P1	149 mm
SGP100 CPO-TW60W K EB II GB AL SI	179 mm
SGP100 CDO-TT150W K II GB	179 mm
SGP100 CDO-TT150W K II FG	149 mm
SGP100 SON-T250W K II GB	179 mm
SGP100 SON-T100/150W II OX FG AL 7011	149 mm
SGP100 SON-T150W K II FG	149 mm
SGP100 SON-T150W II RW FG AL 9007	149 mm
SGP100 SON-T150W K II FG AL 9005	149 mm
SGP100 SON-T150/100W K II GB SWR	179 mm
SGP100 SON-T250W K 240V FG P3	149 mm
SGP100 SON-T150W K 240V FG P3	149 mm
SGP100 SON-T250/150W II FG	149 mm
SGP100 CPO-TW140W K EB GB	179 mm
SGP100 CDO-TT250W K II GB	179 mm
SGP100 SON-T250W K II FG KC	149 mm
SGP100 SON-T100W II ACF	227 mm
SGP100 SON-T100W K 240V ACF P1	227 mm
SGP100 SON-T250/150W II GB SW	179 mm
SGP100 SON-T100/70W K II FG SWR	149 mm
SGP100 CDO-TT100W K II GB	179 mm
SGP100 SON-T150W EB GB P1	179 mm
SGP100 CPO-TW140W K EB PCF P3	227 mm
SGP100 SON-T150/100W II ACF	227 mm
SGP100 SON-T100/70W K II GB SWR	179 mm
SGP100 SON-T100/150W II FG	149 mm
SGP100 SON-T70/50W II ACF SW	227 mm
SGP100 SON-T100W K 240V ACF P1	227 mm
SGP100 SON-T100W K II FG	149 mm
SGP100 CPO-TW90W K EB FG	149 mm
SGP100 SON-T250W II FG	149 mm
SGP100 SON-T100W K 240V FG	149 mm
SGP100 SON-T250W K II GBD	
SGP100 SON-T150W K 240V ACF P1	227 mm
SGP100 CDO-TT100W EB FG	149 mm
SGP100 SON-T250W II GB	179 mm
SGP100 SON-T100W K 240V FG P3	149 mm
SGP100 SON-T100W K 240V FG P1	149 mm
SGP100 CPO-TW140W K EB PCF P1	227 mm
SGP100 SON-T250W K 240V GB P1	179 mm
SGP100 SON-T100/70W K II FG CH	149 mm

Dimensional drawing

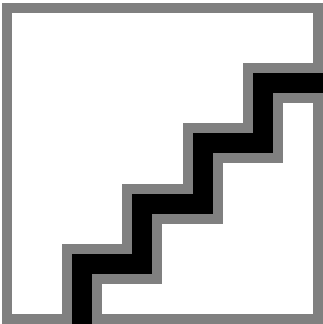
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SGP100 SON-T150W K 240V ACF P3	227 mm
SGP100 SON-T100W K II GB	179 mm
SGP100 CDO-TT150W EBR II GB AL SI D11	179 mm
SGP100 QL55W/840 ACF	227 mm
SGP100 SON-T150W K 240V ACF	227 mm
SGP100 CPO-TW140W K EB II GB	179 mm
SGP100 CPO-TW140W K EB PCF	227 mm
SGP100 SON-T150/100W FGD CH	
SGP100 SON-T150/100W K II FG SWR	149 mm
SGP100 SON-T100W K 240V ACF	227 mm
SGP100 SON-T70W II GB	179 mm
SGP100 CPO-TW140W K EB GB P3	179 mm
SGP100 SON-T70W II R-A-R ACF	227 mm
SGP100 SON-T150W II ACF	227 mm
SGP100 CPO-TW140W K EB FG P3	149 mm
SGP100 SON-T100W II FG	149 mm
SGP100 CDO-TT100W EBD II GB AL SI D9	179 mm
SGP100 SON-T250W K 240V FG P1	149 mm
SGP100 SON-T250/150W K II GB SWR	179 mm
SGP100 SON-T150/100W II ACF SW	227 mm
SGP100 SON-T100W EBD II ACF D9	227 mm
SGP100 SON-T150/100W K II FG CH	149 mm
SGP100 SON-T150/100W II ACF CH	227 mm
SGP100 CDO-TT100W EBR II GB AL SI D11	179 mm
SGP100 SON-T150W EBD II GB AL SI RF	179 mm
SGP100 SON-T150W EBD II ACF D9	227 mm
SGP100 SON-T250W K 240V FG	149 mm
SGP100 SON-T100W K 240V ACF P3	227 mm
SGP100 CPO-TW140W K EB FG	149 mm
SGP100 SON-T150W K II FG KC	149 mm
SGP100 SON-T250W K 240V GB P3	179 mm
SGP100 SON-T250/150W K II FG SWR	149 mm
SGP100 SON-T150W K II GB	179 mm
SGP100 SON-T150W K 240V GB	179 mm
SGP100 SON-T150W K 240V FG	149 mm
SGP100 SON-T100W K II FG KC	149 mm
SGP100 QL85W/840 ACF	227 mm
SGP100 SON-T100/70W II ACF SW	227 mm
SGP100 CPO-TW140W K EB GB P1	179 mm
SGP100 CPO-TW140W K EB FG P1	149 mm
SGP100 SON-T100W II GB	179 mm
SGP100 SON-T100W EBR II ACF D11	227 mm
SGP100 SON-T100W K 240V GB P1	179 mm
SGP100 SON-T150/100W II FG	149 mm
SGP100 SON-T100W II R-A-R ACF	227 mm
SGP100 SON-T150W K 240V GB P3	179 mm
SGP100 CDO-TT150W EBD II GB AL SI D9	179 mm
SGP100 SON-T100W K 240V GB	179 mm
SGP100 SON-T250W K 240V GB P1	179 mm
SGP100 SON-T150W II R-A-R ACF	227 mm

Product	A
SGP100 SON-T150/100W II FG	149 mm
SGP100 SON-T250W K 240V GB	179 mm
SGP100 SON-T100W K 240V GB P3	179 mm
SGP100 SON-T150W II R-A-R GB	179 mm
SGP100 SON-T250W K II FG	149 mm
SGP100 SON-T150W K 240V ACF P1	227 mm
SGP100 SON-T150W EBD II GB D9	179 mm
SGP100 2xPL-L18W II ACF	227 mm
SGP100 CDO-TT250W K II FG	149 mm
SGP100 SON-T150W EBR II ACF D11	227 mm

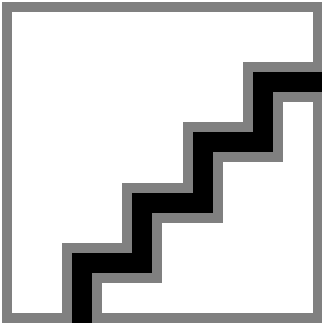
Product details



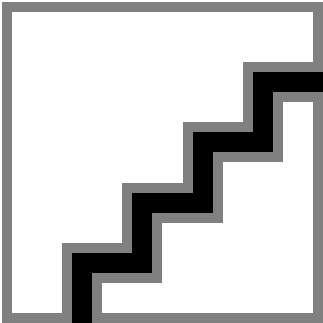
IP66 protection keeps luminaire clean on the inside and therefore minimizes maintenance.



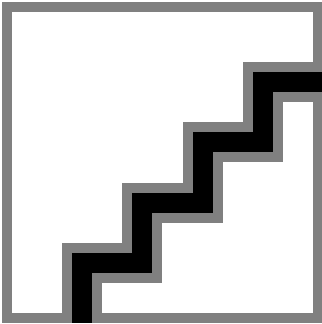
Full aluminum housing



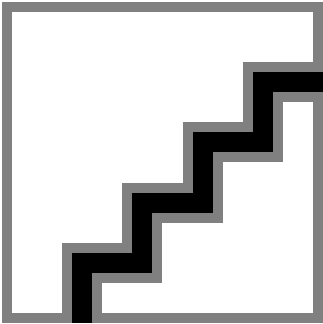
For post-top installations, 76 mm: The opening is fully open and the round, moon-shaped baffles are pivoted inside the luminaire.



Post-top installation, 60mm: The round baffle is pivoted inside the luminaire. The moon-shaped baffle closes the rest of the opening and the surface of the luminaire is totally flush.

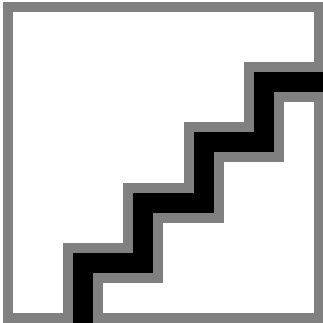


Side-entry installation: Both baffles close the opening and the surface is totally flush.

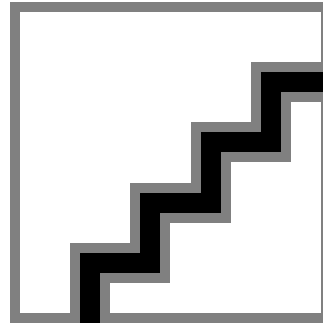


Toolless opening of the luminaire

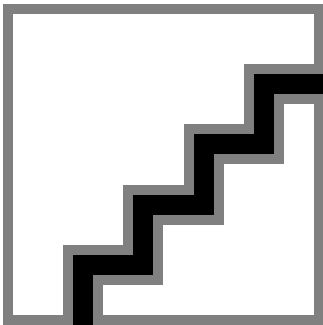
Product details



Quickly replace glass bowls



Quickly replace the gear tray



Replace lamps without tools

