



# Koffer<sup>2</sup> – economical system

## Koffer<sup>2</sup> LED Mini

Koffer<sup>2</sup> 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 Koffer<sup>2</sup>. 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, Koffer<sup>2</sup> 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 Koffer<sup>2</sup> family accommodates CosmoPolis white-light technology and LED-enabled versions. Each Koffer<sup>2</sup> luminaire is fully recyclable; only the light source and driver have to be recycled separately.

### Benefits

- Up to 40% improvement in total cost of ownership
- Payback possible within 5.5 years
- Power control technology saves up to 65% energy
- Easily upgradable for further 60% energy saving
- Equipped with Service tag, a QR-based identification system that makes each luminaire uniquely identifiable and provides maintenance, installation and spare part information

### Features

- Warm-white Luxeon Rebel LEDs
- Re-LEDing upgrade possible
- Simplified components platform

### Application

- Residential areas
- Pavements and (cycle) paths

# Koffer² LED Mini

## Specifications

<b>Type</b>	BGP060
<b>Light source</b>	Integral LED-module
<b>Power (+/-10%)</b>	GreenLine (GRN): 20 to 29 W depending on LED configuration EconomyLine (ECO): 29 to 41 W depending on LED configuration
<b>Luminous flux</b>	GreenLine: 1328 to 2527 lm EconomyLine: 1856 to 3483 lm
<b>Luminaire efficacy</b>	Up to 90 lm/W
<b>Light color</b>	Warm white (WW) Neutral white (NW)

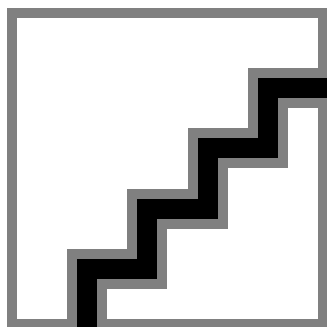
<b>Inrush current</b>	20 A / 170 µs
<b>Maintenance of lumen</b>	GreenLine: 90 000 hours
<b>output - L80F10</b>	EconomyLine: 65 000 hours
<b>Operating temperature range</b>	-25 to +35 °C
<b>Driver</b>	Built-in (self ballasted LED-module)
<b>Mains voltage</b>	220-240 V / 50-60 Hz

## Specifications

<b>Optic</b>	Medium street optic (MSO), wide street optic (WSO), narrow street optic (NSO), low pole optic (LPO)
<b>Optical cover</b>	Polycarbonate cover
<b>Options</b>	Dimming: - Lumistep 6, 8 and 10 hours - Constant Light Output (CLO) - Mains dimming - RF antenna - 1-10 V
<b>Materials and finishing</b>	Housing: high-pressure die-cast aluminum, non-corrosive Gasket: silicone rubber, heat-resistant Cover: polycarbonate, frosted with clear lenses Heat sink (internal): high-pressure die-cast aluminum, non-corrosive
<b>Color</b>	Canopy: brilliant grey, approx RAL7043 (GR) Frame and spigot: aluminum, unpainted sandblasted

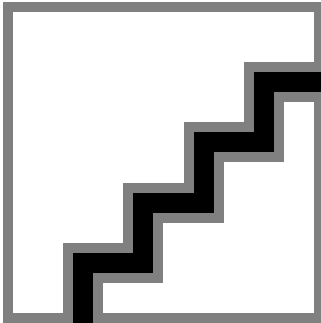
<b>Installation</b>	Flexifit spigot for post-top mounting: axial entry Ø 60 - 76 mm at 10° tilt or side-entry mounting: lateral entry Ø 34 - 48 mm Recommended mounting height: 3.5 to 6 m Standard tilt angle post top: 10° standard Max SCx value by side: 0.044 m²
<b>Maintenance</b>	From below by opening the housing with a single quick-release clip all supported by a retention cable Multiblock for easy cabling and electrical connection Simple LifeLED Hinged front glass with quick-release clips for replacement
<b>Accessories</b>	Dedicated mast and wall brackets available for different mounting possibilities Side-entry reductor from 60 to 48 mm
<b>Main applications</b>	Residential streets, pedestrian and cycle paths

## Versions



Koffer² LED Mini BGP060 road-lighting luminaire

## Product details



OPDP\_BGP060i\_0001-Detail  
photo

### Approval and Application

Mech. impact protection code	IK07
Surge Protection (Common/Differential)	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode

### Controls and Dimming

Dimmable	No
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### General Information

Luminaire light beam spread	180°
CE mark	CE mark
Parts color	-
Optical cover/lens type	Polycarbonate bowl/cover
Design Award Winner mark	Design Award Winner 2007
Driver included	Yes
Flammability mark	-
Green Flagship mark	Green Flagship
Light source replaceable	Yes
Lamp version	3S
Number of gear units	1 unit
Product Family Code	BGP060

### Light Technical

Standard tilt angle side entry	0°
Standard tilt angle posttop	10°
Upward light output ratio	0.03

### Mechanical and Housing

Color	Gray
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## General Information (1/2)

Order Code	Full Product Name	Colored frame	Light source color	Lamp family code	Optic type
910403911012	BGP060 GRN16--3S/830 II MSO GR	-	830 warm white	GRN16	Medium wide street optic
910403911112	BGP060 GRN29--3S/740 II MSO GR	-	740 neutral white	GRN29	Medium wide street optic
910403911212	BGP060 GRN24--3S/830 II MSO GR	-	830 warm white	GRN24	Medium wide street optic
910403911312	BGP060 ECO28--3S/740 II MSO GR	-	740 neutral white	ECO28	Medium wide street optic
910403911412	BGP060 ECO23--3S/830 II MSO GR	-	830 warm white	ECO23	Medium wide street optic
910403911512	BGP060 ECO43--3S/740 II MSO GR	-	740 neutral white	ECO43	Medium wide street optic
910403911612	BGP060 ECO35--3S/830 II MSO GR	-	830 warm white	ECO35	Medium wide street optic
910403917712	BGP060 GRN29--3S/740 I MSO GR	-	740 neutral white	GRN29	Medium wide street optic
910403918012	BGP060 ECO43--3S/740 I MSO GR	-	740 neutral white	ECO43	Medium wide street optic
910770100572	BGP060 GRN29--3S/740 II WSO FM GR CLO	Frame metallized	740 neutral white	GRN29	Wide street optic

## General Information (2/2)

## Koffer<sup>2</sup> LED Mini

Order Code	Full Product Name	Service tag	UL mark
910403911012	BGP060 GRN16--3S/830 II MSO GR	-	-
910403911112	BGP060 GRN29--3S/740 II MSO GR	-	-
910403911212	BGP060 GRN24--3S/830 II MSO GR	-	-
910403911312	BGP060 ECO28--3S/740 II MSO GR	-	-
910403911412	BGP060 ECO23--3S/830 II MSO GR	-	-

Order Code	Full Product Name	Service tag	UL mark
910403911512	BGP060 ECO43--3S/740 II MSO GR	-	-
910403911612	BGP060 ECO35--3S/830 II MSO GR	-	-
910403917712	BGP060 GRN29--3S/740 I MSO GR	-	-
910403918012	BGP060 ECO43--3S/740 I MSO GR	Yes	-
910770100572	BGP060 GRN29--3S/740 II WSO FM GR CLO	-	UL mark

### Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
910403911012	BGP060 GRN16--3S/830 II MSO GR	3000 K	80	1603 lm
910403911112	BGP060 GRN29--3S/740 II MSO GR	4000 K	70	2905 lm
910403911212	BGP060 GRN24--3S/830 II MSO GR	3000 K	80	2405 lm
910403911312	BGP060 ECO28--3S/740 II MSO GR	4000 K	70	2798 lm
910403911412	BGP060 ECO23--3S/830 II MSO GR	3000 K	80	2302 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
910403911512	BGP060 ECO43--3S/740 II MSO GR	4000 K	70	4321 lm
910403911612	BGP060 ECO35--3S/830 II MSO GR	3000 K	80	3504 lm
910403917712	BGP060 GRN29--3S/740 I MSO GR	4000 K	70	2905 lm
910403918012	BGP060 ECO43--3S/740 I MSO GR	4000 K	70	4321 lm
910770100572	BGP060 GRN29--3S/740 II WSO FM GR CLO	4000 K	70	2905 lm

