



# Koffer² LED Mini

## BGP060 GRN29--3S/740 II MSO GR

Mini Koffer2 LED, LED GreenLine 2900 lm, 740 neutral white, Safety class II, Medium wide street optic, Grey, Post-top for diameter 60 to 76 mm

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.

### Product data

| General Information      |  |                          |   |
|--------------------------|--|--------------------------|---|
| Lamp family code         | GRN29 [LED GreenLine 2900 lm]  |                          | B10. Therefore, the median useful life (B50) value also represents the B10 value. |
| Light source replaceable | Yes  | Light source engine type | LED   |
| Number of gear units     | 1 unit   | Product family code      | BGP060 [Mini Koffer2 LED]   |
| Driver included          | Yes  | Lighting Technology      | LED   |
| Photocell                | -  | Embedded control         | -   |
| Remarks                  | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example |                          |   |
|                          |  | CE mark                  | Yes   |
|                          |  | Warranty period          | 5 years   |
|                          |  | Flammability mark        | -   |
|                          |  | ENEC mark                | ENEC mark   |

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|                   |     |
|-------------------|-----|
| EU RoHS compliant | Yes |
|-------------------|-----|

### Light Technical

|                                    |                          |
|------------------------------------|--------------------------|
| Upward light output ratio          | 0.03                     |
| Luminous Flux                      | 2,905 lm                 |
| Standard tilt angle posttop        | 10°                      |
| Standard tilt angle side entry     | 0°                       |
| Correlated Color Temperature (Nom) | 4000 K                   |
| Luminous Efficacy (rated) (Nom)    | 126 lm/W                 |
| Color rendering index (CRI)        | 70                       |
| Light source color                 | 740 neutral white        |
| Optical cover type                 | Polycarbonate bowl/cover |
| Luminaire light beam spread        | 180°                     |
| Optic type outdoor                 | Medium wide street optic |

### Operating and Electrical

|  |                    |
|--|--------------------|
| Input Voltage                            | 220 to 240 V       |
| Line Frequency                           | 50 to 60 Hz        |
| Inrush current                           | 22 A               |
| Inrush time                              | 0.29 ms            |
| Power Consumption                        | 23 W               |
| Power Factor (Fraction)                  | 0.95               |
| Connection                               | Internal connector |
| Cable                                    | -                  |
| Number of products on MCB of 16 A type B | 20                 |

### Temperature

|                           |               |
|---------------------------|---------------|
| Ambient temperature range | -20 to +35 °C |
|---------------------------|---------------|

### Controls and Dimming

|                               |                              |
|-------------------------------|------------------------------|
| Dimmable                      | No                           |
| Driver/power unit/transformer | Power supply unit regulating |
| Constant light output         | No                           |

### Mechanical and Housing

|                        |                                   |
|------------------------|-----------------------------------|
| Housing Material       | Aluminum                          |
| Reflector material     | -                                 |
| Optic material         | Polycarbonate                     |
| Optical cover material | Polycarbonate                     |
| Fixation material      | Aluminum                          |
| Housing Color          | Grey                              |
| Mounting device        | Post-top for diameter 60 to 76 mm |

|                                     |                    |
|-------------------------------------|--------------------|
| Optical cover shape                 | Convex lens        |
| Optical cover finish                | Clear              |
| Overall length                      | 511 mm             |
| Overall width                       | 264 mm             |
| Overall height                      | 111 mm             |
| Effective projected area            | 0.032 m²           |
| Dimensions (Height x Width x Depth) | 111 x 264 x 511 mm |
| Parts color                         | -                  |

### Approval and Application

|  |  |
|--|--|
| Ingress protection code                | IP66 [Dust penetration-protected, jet-proof]                                       |
| Mech. impact protection code           | IK07 [2 J reinforced]  |
| Surge Protection (Common/Differential) | Luminaire surge protection level until 6 kV differential mode and 8 kV common mode |
| Protection class IEC                   | Safety class II  |

### Initial Performance (IEC Compliant)

|                                       |                    |
|---------------------------------------|--------------------|
| Luminous flux tolerance               | +/-10%             |
| Initial chromaticity                  | (0.38,0.37) SDCM<5 |
| Power consumption tolerance           | +/-10%             |
| Init. Color Rendering Index Tolerance | +/-2               |

### Over Time Performance (IEC Compliant)

|  |      |
|--|------|
| Control gear failure rate at median useful life 100000 h | 10 % |
| Lumen maintenance at median useful life* 100000 h        | L80  |

### Application Conditions

|                                    |       |
|------------------------------------|-------|
| Performance ambient temperature Tq | 25 °C |
|------------------------------------|-------|

### Product Data

|                                 |                                |
|---------------------------------|--------------------------------|
| Order product name              | BGP060 GRN29--3S/740 II MSO GR |
| Full product name               | BGP060 GRN29--3S/740 II MSO GR |
| Full product code               | 871829133098100                |
| Order code                      | 910403911112                   |
| Material Nr. (12NC)             | 910403911112                   |
| Numerator - Quantity Per Pack   | 1                              |
| EAN/UPC - Product/Case          | 8718291330981                  |
| Numerator - Packs per outer box | 1                              |
| EAN/UPC - Case                  | 8718291330981                  |

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Dimensional drawing

