PHILIPS Lighting



Iridium LED Mini

BGS451 ECO28--2S/740 I MSO GR P3

Mini Iridium LED, LED EconomyLine 2800 lm, 740 neutral white, Safety class I, Medium wide street optic, Grey, Minicell (hole 20 mm)

The second generation of compact Mini Iridium LED road-lighting luminaires offers a much wider scope of application thanks to a more powerful LED engine and brand new optics, which allow maximum energy savings in residential streets. Additional control devices can be fitted into the mast and communicate with the luminaire to further increase energy savings. This new generation of Mini Iridium LED also gives municipal authorities the freedom to change the atmosphere of the street thanks to the choice of different color temperatures (warm, neutral and cool white).

Product data

| General Information | |
|--------------------------|---|
| Lamp family code | ECO28 [LED EconomyLine 2800 lm] |
| Light source replaceable | Yes |
| Number of gear units | 1 unit |
| Driver included | Yes |
| Photocell | Minicell (hole 20 mm) |
| 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 |
| | B10. Therefore, the median useful life (B50) |
| | value also represents the B10 value. |
| Light source engine type | LED |
| Product family code | BGS451 [Mini Iridium LED] |
| | |

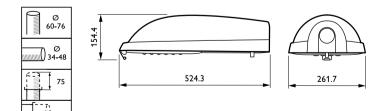
| Lighting Technology | LED |
|------------------------------------|----------------------------------|
| Glow-wire test | Temperature 650 °C, duration 5 s |
| Flammability mark | - |
| CE mark | Yes |
| ENEC mark | ENEC mark |
| Warranty period | 5 years |
| EU RoHS compliant | Yes |
| | |
| Light Technical | |
| Upward light output ratio | 0.03 |
| Luminous Flux | 2,798 lm |
| Standard tilt angle posttop | 10° |
| Standard tilt angle side entry | 0° |
| Correlated Color Temperature (Nom) | 4000 K |
| Luminous Efficacy (rated) (Nom) | 119 lm/W |
| | |

Iridium LED Mini

| 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 | 23.5 W | |
| Power Factor (Fraction) | 0.95 | |
| Connection | Internal connector | |
| Cable | - | |
| Number of products on MCB of 16 A type | 20 | |
| В | | |
| | | |
| 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 | 529 mm | |
| Overall width | 265 mm | |
| | | |

| Overall height | 154.5 mm |
|---|--|
| Effective projected area | 0.032 m² |
| Dimensions (Height x Width x Depth) | 155 x 265 x 529 mm |
| Approval and Application | |
| Ingress protection code | IP66 [Dust penetration-protected, jet-proof |
| Mech. impact protection code | IK08 [5 J vandal-protected] |
| Surge Protection (Common/Differential) | Luminaire surge protection level until 6 kV |
| | differential mode and 8 kV common mode |
| Protection class IEC | Safety class I |
| 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 Compl Control gear failure rate at median useful | - |
| Control gear failure rate at median useful life 75000 h Lumen maintenance at median useful | - |
| Control gear failure rate at median useful life 75000 h Lumen maintenance at median useful life* 75000 h | 7.5 % |
| Control gear failure rate at median useful life 75000 h Lumen maintenance at median useful life* 75000 h Application Conditions | 7.5 % L80 |
| Control gear failure rate at median useful life 75000 h Lumen maintenance at median useful life* 75000 h | 7.5 % |
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| Control gear failure rate at median useful life 75000 h Lumen maintenance at median useful life* 75000 h Application Conditions Performance ambient temperature Tq Product Data Order product name | 7.5 % L80 25 °C BGS451 ECO2825/740 I MSO GR P3 |
| Control gear failure rate at median useful life 75000 h Lumen maintenance at median useful life* 75000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name | 7.5 % L80 25 ℃ BGS451 ECO282S/740 I MSO GR P3 BGS451 ECO282S/740 I MSO GR P3 |
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Dimensional drawing



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Iridium LED Mini



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