



Iridium LED Mini

BGS451 ECO43--2S/740 I MSO GR RF

Mini Iridium LED, LED EconomyLine 4300 lm, Medium wide street optic

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 | ECO43 [LED EconomyLine 4300 lm] | Glow-wire test | Temperature 650 °C, duration 5 s |
| Light source replaceable | Yes | Flammability mark | - |
| Number of gear units | 1 unit | CE mark | Yes |
| Driver included | Yes | ENEC mark | ENEC mark |
| Photocell | - | Warranty period | 5 years |
| 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. | EU RoHS compliant | Yes |
| Light source engine type | LED | Embedded control | - |
| Product family code | BGS451 [Mini Iridium LED] | Light Technical | |
| Lighting Technology | LED | Upward light output ratio | 0.03 |
| | | Luminous Flux | 4,321 lm |
| | | Standard tilt angle posttop | 10° |
| | | Standard tilt angle side entry | 0° |
| | | Correlated Color Temperature (Nom) | 4000 K |
| | | Luminous Efficacy (rated) (Nom) | 122 lm/W |
| | | Color rendering index (CRI) | 70 |

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|-----------------------------|--------------------------|
| 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 | 35 A |
| Inrush time | 0.35 ms |
| Power Consumption | 35.2 W |
| Power Factor (Fraction) | 0.95 |
| Connection | Internal connector |
| Cable | - |
| Number of products on MCB of 16 A type B | 11 |

Temperature

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

Controls and Dimming

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|-------------------------------|------------------------------|
| Dimmable | Yes |
| Driver/power unit/transformer | Power supply unit regulating |
| Control interface | DALI |
| Constant light output | No |

Mechanical and Housing

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|------------------------|-----------------------------------|
| 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 | 228 mm |

| | |
|-------------------------------------|--------------------|
| Effective projected area | 0.032 m² |
| Dimensions (Height x Width x Depth) | 228 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 4 kV differential mode and 4 kV common mode |
| Protection class IEC | Safety class I |

Initial Performance (IEC Compliant)

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|---------------------------------------|--------------------|
| 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)

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|---------------------------------------------------------|-------|
| Control gear failure rate at median useful life 75000 h | 7.5 % |
| Lumen maintenance at median useful life* 75000 h | L80 |

Application Conditions

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|------------------------------------|-------|
| Performance ambient temperature Tq | 25 °C |
| Maximum dim level | 20% |

Product Data

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|---------------------------------|----------------------------------|
| Order product name | BGS451 ECO43--2S/740 I MSO GR RF |
| Full product name | BGS451 ECO43--2S/740 I MSO GR RF |
| Full product code | 871829140402600 |
| Order code | 910505004718 |
| Material Nr. (12NC) | 910505004718 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8718291404026 |
| Numerator - Packs per outer box | 1 |
| EAN/UPC - Case | 8718291404026 |

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Dimensional drawing

