



Iridium LED Mini

BGS451 GRN16--2S/830 II MSO AL 7035

Mini Iridium LED, LED GreenLine 1600 lm, 830 warm white, Safety class II, Medium wide street optic, Light gray (RAL7035)

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	GRN16 [LED GreenLine 1600 lm]	Embedded control	-
Light source replaceable	Yes	CE mark	Yes
Number of gear units	1 unit	Warranty period	5 years
Driver included	Yes	Flammability mark	-
Photocell	-	ENEC mark	ENEC mark
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.	Glow-wire test	Temperature 650 °C, duration 5 s
Light source engine type	LED	EU RoHS compliant	Yes
Product family code	BGS451 [Mini Iridium LED]	Light Technical	
Lighting Technology	LED	Upward light output ratio	0.03
		Luminous Flux	1,603 lm
		Standard tilt angle posttop	10°
		Standard tilt angle side entry	0°
		Correlated Color Temperature (Nom)	3000 K
		Luminous Efficacy (rated) (Nom)	100 lm/W
		Color rendering index (CRI)	80

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Light source color	830 warm 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	16 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
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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	RAL (to be defined)
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
Parts color	All parts colored

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 II

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.43,0.40) 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

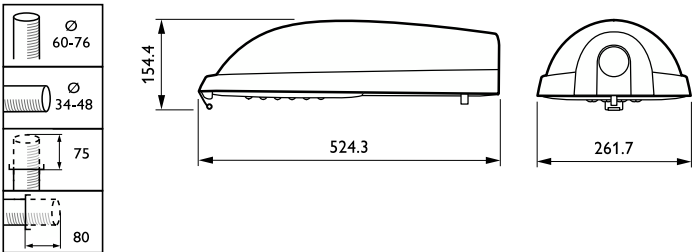
Application Conditions

Performance ambient temperature Tq	25 °C
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Product Data

Order product name	BGS451 GRN16--2S/830 II MSO AL 7035
Full product name	BGS451 GRN16--2S/830 II MSO AL 7035
Full product code	871794385128700
Order code	910505000718
Material Nr. (12NC)	910505000718
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943851287
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943851287

Dimensional drawing



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