PHILIPS

Lighting



Iridium LED Mini

BGS451 GRN29--3S/740 I MSO GR P3

Mini Iridium LED - LED GreenLine 2900 lm - Medium wide street optic - 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	GRN29 [LED GreenLine 2900 lm]
Lamp version	3S [3rd generation, screw fixation]
Light source colour	740 neutral white
Light source replaceable	Yes
Number of gear units	1 unit
Driver/power unit/transformer	PSR [Power supply unit regulating]
Driver included	Yes
Optical cover/lens type	PC [Polycarbonate bowl/cover]
Luminaire light beam spread	180°
Light regulation	-
Connection	Internal connector
Cable	-
Protection class IEC	Safety class I
Glow-wire test	Temperature 650 °C, duration 5 s
Flammability mark	NO [-]

CE mark	CE mark
ENEC mark	ENEC mark
Warranty period	5 years
Outdoor optic type	Medium wide street optic
Coloured frame	-
RAL colour	-
Photocell	P3 [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.
Constant light output	No
Number of products on MCB	20

Iridium LED Mini

RoHS mark	RoHS mark
LED engine type	LED
Product Family Code	BGS451 [Mini Iridium LED]

Light Technical

Upward light output ratio	0.03
Standard tilt angle post-top	10°
Standard tilt angle side entry	0°

Operating and Electrical

Input voltage	220 to 240 V
Input frequency	50 to 60 Hz
Inrush current	22 A
Inrush time	0.29 ms
Power factor (min.)	0.95

Controls and Dimming

Dimmable	No

Mechanical and Housing

Housing material	Aluminium
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	Aluminum
Mounting device	60/76P [Post-top for diameter 60-76 mm]
Optical cover/lens shape	Convex lens
Optical cover/lens finish	Clear
Overall length	529 mm
Overall width	265 mm
Overall height	154.5 mm
Effective projected area	0.032 m²

Approval and Application

Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK08 [5 J vandal-protected]

Initial Performance (IEC Compliant)

Initial luminous flux	2905 lm
Luminous flux tolerance	+/-10%
Initial LED luminaire efficacy	126 lm/W
Init. Corr. colour temperature	4000 K
Init. colour rendering index	70
Initial chromaticity	(0.38,0.37) SDCM<5
Initial input power	23 W
Power consumption tolerance	+/-10%

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

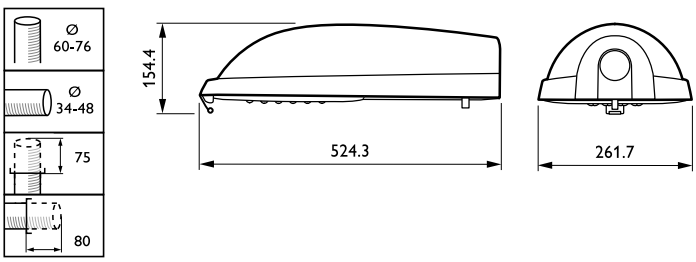
Application Conditions

Ambient temperature range	-20 to +35 °C
Performance ambient temperature Tq	25 °C

Product Data

Full product code	871794385064800
Order product name	BGS451 GRN29--3S/740 I MSO GR P3
EAN/UPC – product	8717943850648
Order code	85064800
Numerator – quantity per pack	1
Numerator – packs per outer box	1
Material no. (12NC)	910504998118
Net weight (piece)	5.210 kg

Dimensional drawing



Iridium LED Mini BGS451

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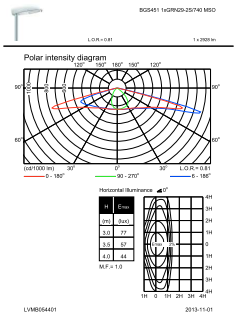
Photometric data



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