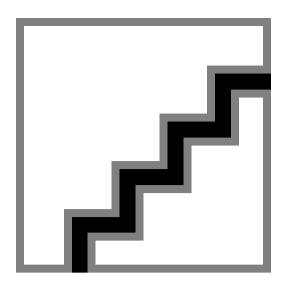
PHILIPS Lighting



Iridium LED Mini

BGS451 GRN20--2S/740 II MSO GR CLO

Mini Iridium LED, LED GreenLine 2000 lm, 740 neutral white, Safety class II, Medium wide street optic, Grey, Constant light output

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	GRN20 [LED GreenLine 2000 lm]
Light source replaceable	Yes
Number of gear units	1 unit
Driver included	Yes
Photocell	-
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
Embedded control	Constant light output
Light Technical	
Upward light output ratio	0.03
Luminous Flux	2,004 lm
Standard tilt angle posttop	10°
Standard tilt angle side entry	0°
Correlated Color Temperature (Nom)	4000 K

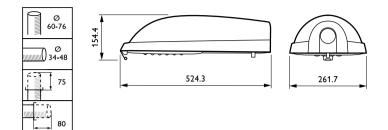
Iridium LED Mini

Luminous Efficacy (rated) (Nom)	120 lm/W
Color rendering index (CRI)	70
Light source color	740 neutral white
-	
Optical cover type	Polycarbonate bowl/cover 180°
Luminaire light beam spread	
Optic type outdoor	Medium wide street optic
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Initial CLO power consumption	13.4 W
Average CLO power consumption	15.0 W
End CLO power consumption	16.7 W
Inrush current	22 A
Inrush time	0.29 ms
Power Consumption	16.7 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 with constant
	light output
Constant light output	Yes
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-proo
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	(0.38,0.37) SDCM<5
Power consumption tolerance	+/-10%
Init. Color Rendering Index Tolerance	+/-2
Over Time Performance (IEC Compli	ant)
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful	
Control gear failure rate at median useful life 100000 h	10 %
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful	10 %
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h	10 %
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions	L80
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq	L80
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Product Data	10 % L80 25 ℃
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name	10 % L80 25 °C BGS451 GRN2025/740 II MSO GR CLO
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name	10 % L80 25 °C BGS451 GRN202S/740 II MSO GR CLO BGS451 GRN202S/740 II MSO GR CLO
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name Full product code	10 % L80 25 °C BGS451 GRN202S/740 II MSO GR CLO BGS451 GRN202S/740 II MSO GR CLO 871794385069300
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name Full product code Order code	10 % L80 25 °C BGS451 GRN202S/740 II MSO GR CLO BGS451 GRN202S/740 II MSO GR CLO 871794385069300 910504998618
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name Full product code Order code Material Nr. (12NC)	10 % L80 25 °C BGS451 GRN202S/740 II MSO GR CLO BGS451 GRN202S/740 II MSO GR CLO 871794385069300 910504998618 910504998618
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack	10 % L80 25 °C BGS451 GRN2025/740 II MSO GR CLO BGS451 GRN2025/740 II MSO GR CLO 871794385069300 910504998618 910504998618 1

Iridium LED Mini

Dimensional drawing





© 2023 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.

www.lighting.philips.com 2023, September 4 - data subject to change