



Iridium LED Mini

BGS451 GRN29--2S/740 I WSO GR CLO

Mini Iridium LED, LED GreenLine 2900 lm, 740 neutral white, Safety class I, 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	GRN29 [LED GreenLine 2900 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	2,905 lm	
Standard tilt angle posttop	10°	
Standard tilt angle side entry	O°	
Correlated Color Temperature (Nom)	4000 K	
Luminous Efficacy (rated) (Nom)	126 lm/W	
Color rendering index (CRI)	70	

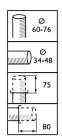
Datasheet, 2023, September 4 data subject to change

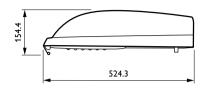
Iridium LED Mini

Light source color	740 neutral white	Overall width	265 mm	
Optical cover type	Polycarbonate bowl/cover	Overall height	154.5 mm	
Luminaire light beam spread	180°	Effective projected area	0.032 m²	
Optic type outdoor	Wide street optic	Dimensions (Height x Width x Depth)	155 x 265 x 529 mm	
Operating and Electrical		Approval and Application		
Input Voltage	220 to 240 V	Ingress protection code	IP66 [Dust penetration-protected, jet-prod	
Line Frequency	50 to 60 Hz	Mech. impact protection code	IK08 [5 J vandal-protected]	
Initial CLO power consumption	18.4 W	Surge Protection (Common/Differential)	Luminaire surge protection level until 6 kV	
Average CLO power consumption	20.7 W		differential mode and 8 kV common mode	
End CLO power consumption	23 W	Protection class IEC	Safety class I	
Inrush current	22 A			
Inrush time	0.29 ms	Initial Performance (IEC Compliant	t)	
Power Consumption	23 W	Luminous flux tolerance	+/-10%	
Power Factor (Fraction)	0.95	Initial chromaticity	(0.38,0.37) SDCM<5	
Connection	Internal connector	Power consumption tolerance	+/-10%	
Cable	-	Init. Color Rendering Index Tolerance	+/-2	
Number of products on MCB of 16 A t	ype 20			
В		Over Time Performance (IEC Compliant)		
		Control gear failure rate at median usefu	ıl 10 %	
Temperature		life 100000 h		
Ambient temperature range	-20 to +35 °C	Lumen maintenance at median useful	L80	
		life* 100000 h		
Controls and Dimming				
Dimmable	No	Application Conditions		
Driver/power unit/transformer	Power supply unit regulating with constant	Performance ambient temperature Tq	25 °C	
	light output			
Constant light output	Yes	Product Data		
		Order product name	BGS451 GRN292S/740 I WSO GR CLO	
Mechanical and Housing		Full product name	BGS451 GRN292S/740 I WSO GR CLO	
Housing Material	Aluminum	Full product code	871829140400200	
Reflector material		Order code	910505004518	
Optic material	Polycarbonate	Material Nr. (12NC)	910505004518	
Optical cover material	Polycarbonate	Numerator - Quantity Per Pack	1	
Fixation material	Aluminum	EAN/UPC - Product/Case	8718291404002	
Housing Color	Grey	Numerator - Packs per outer box	1	
Mounting device	Post-top for diameter 60 to 76 mm	EAN/UPC - Case	8718291404002	
Optical cover shape	Convex lens			
Optical cover finish	Clear			
Overall length	529 mm			

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.