



# **Iridium LED Mini**

### BGS451 GRN16--2S/830 I WSO GR CLO

Mini Iridium LED, LED GreenLine 1600 lm, 830 warm 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	GRN16 [LED GreenLine 1600 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	1,603 lm	
Standard tilt angle posttop	10°	
Standard tilt angle side entry	O°	
Correlated Color Temperature (Nom)	3000 K	
Luminous Efficacy (rated) (Nom)	100 lm/W	
Color rendering index (CRI)	80	

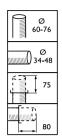
Datasheet, 2023, September 4 data subject to change

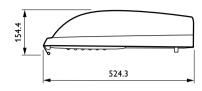
## Iridium LED Mini

Light source color	830 warm 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-proof]
Line Frequency	50 to 60 Hz	Mech. impact protection code	IK08 [5 J vandal-protected]
Initial CLO power consumption	12.8 W	Surge Protection (Common/Differential)	Luminaire surge protection level until 6 kV
Average CLO power consumption	14.4 W		differential mode and 8 kV common mode
End CLO power consumption	16 W	Protection class IEC	Safety class I
Inrush current	22 A		
Inrush time	0.29 ms	Initial Performance (IEC Compliant)	
Power Consumption	16 W	Luminous flux tolerance	+/-10%
Power Factor (Fraction)	0.95	Initial chromaticity	(0.43,0.40) SDCM<5
Connection	Internal connector	Power consumption tolerance	+/-10%
Cable	-	Init. Color Rendering Index Tolerance	+/-2
Number of products on MCB of 16 A typ	e 20		
В		Over Time Performance (IEC Comp	liant)
		Control gear failure rate at median usefu	l 10 %
Temperature		life 100000 h	
Ambient temperature range	-20 to +35 ℃	Lumen maintenance at median useful	L80
		life* 100000 h	
Controls and Dimming			
Dimmable	No	<b>Application Conditions</b>	
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 GRN162S/830 I WSO GR CLO
Mechanical and Housing		Full product name	BGS451 GRN162S/830 I WSO GR CLO
Housing Material	Aluminum	Full product code	871829140394400
Reflector material	-	Order code	910505003918
Optic material	Polycarbonate	Material Nr. (12NC)	910505003918
Optical cover material	Polycarbonate	Numerator - Quantity Per Pack	1
Fixation material	Aluminum	EAN/UPC - Product/Case	8718291403944
Housing Color	Grey	Numerator - Packs per outer box	1
Mounting device	Post-top for diameter 60 to 76 mm	EAN/UPC - Case	8718291403944
Optical cover shape	Convex lens		
Optical cover finish	Clear		
Overall length	529 mm		

#### **Iridium LED Mini**

#### Dimensional drawing









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