PHILIPS Lighting



Iridium LED Mini

BGS451 GRN24--2S/830 I WSO GR CLO

Mini Iridium LED, LED GreenLine 2400 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	GRN24 [LED GreenLine 2400 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	2,405 lm
Standard tilt angle posttop	10°
Standard tilt angle side entry	0°
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	106 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	Wide street optic
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Initial CLO power consumption	18.0 W
Average CLO power consumption	20.3 W
End CLO power consumption	22.5 W
Inrush current	22 A
Inrush time	0.29 ms
Power Consumption	22.5 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 ℃
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-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 I
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 Compl	iant)
Control gear failure rate at median useful	
life 100000 h	
Lumen maintenance at median useful	180
life* 100000 h	
Application Conditions	
Application Conditions Performance ambient temperature Tq	25 °C
	25 °C
Performance ambient temperature Tq	25 °C BGS451 GRN242S/830 I WSO GR CLO
Performance ambient temperature Tq Product Data	
Performance ambient temperature Tq Product Data Order product name	BGS451 GRN2425/830 I WSO GR CLO
Performance ambient temperature Tq Product Data Order product name Full product name	BGS451 GRN242S/830 I WSO GR CLO BGS451 GRN242S/830 I WSO GR CLO
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Dimensional drawing



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