PHILIPS Lighting



Iridium LED Mini

BGS451 GRN20--2S/740 II MSO AL 7035

Mini Iridium LED, LED GreenLine 2000 lm, 740 neutral white, Safety class II, Medium wide street optic, Light gray (RAL7035)

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
Service tag	Yes
Product family code	BGS451 [Mini Iridium LED]

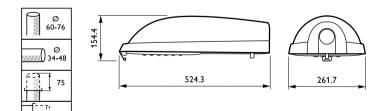
Lighting Technology	LED
CE mark	Yes
Warranty period	5 years
Flammability mark	-
ENEC mark	ENEC mark
Glow-wire test	Temperature 650 °C, duration 5 s
EU RoHS compliant	Yes
Light Technical	
Upward light output ratio	0.03
Luminous Flux	2,004 lm
Standard tilt angle posttop	10°
Standard tilt angle side entry	0°
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	120 lm/W
Color rendering index (CRI)	70

Iridium LED Mini

Light source color	740 neutral white	Effective pro
Optical cover type	Polycarbonate bowl/cover	Dimensions (
Luminaire light beam spread	180°	Parts color
Optic type outdoor	Medium wide street optic	
		Approval a
Operating and Electrical		Ingress prote
Input Voltage	220 to 240 V	Mech. impact
Line Frequency	50 to 60 Hz	Surge Protec
Inrush current	22 A	
Inrush time	0.29 ms	Protection cl
Power Consumption	16.7 W	
Power Factor (Fraction)	0.95	Initial Perfo
Connection	Internal connector	Luminous flu
Cable	-	Initial chrom
Number of products on MCB of 16 A type	20	Power consu
В		Init. Color Re
Temperature		Over Time
Ambient temperature range	-20 to +35 °C	Control gear
		life 100000
Controls and Dimming		Lumen maint
Dimmable	No	life* 100000
Driver/power unit/transformer	Power supply unit regulating	
Constant light output	No	Application
		Performance
Mechanical and Housing		
Housing Material	Aluminum	Product Da
Reflector material	-	Order produc
Optic material	Polycarbonate	Full product
Optical cover material	Polycarbonate	Full product
Fixation material	Aluminum	Order code
Housing Color	RAL (to be defined)	Material Nr.
Mounting device	Post-top for diameter 60 to 76 mm	Numerator -
Optical cover shape	Convex lens	EAN/UPC - F
Optical cover finish	Clear	Numerator -
Overall length	529 mm	EAN/UPC - C
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
Parts color	All parts colored
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 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 Compl	iant)
Control gear failure rate at median useful	10 %
life 100000 h	
Lumen maintenance at median useful	L80
life* 100000 h	
Application Conditions	
Performance ambient temperature Tq	25 ℃
Product Data	
Order product name	BGS451 GRN202S/740 II MSO AL 7035
Full product name	BGS451 GRN202S/740 II MSO AL 7035
Full product code	871794385127000
Order code	910505000618
Material Nr. (12NC)	910505000618
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943851270
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943851270

Dimensional drawing



80

Iridium LED Mini



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