PHILIPS Lighting



Iridium LED Mini

BGS451 ECO28--2S/740 I MSO GR P3

Mini Iridium LED, LED EconomyLine 2800 lm, 740 neutral white, Safety class I, Medium wide street optic, Grey, Minicell (hole 20 mm)

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	ECO28 [LED EconomyLine 2800 lm]
Light source replaceable	Yes
Number of gear units	1 unit
Driver included	Yes
Photocell	Minicell (hole 20 mm)
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]

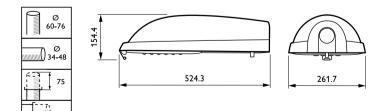
Lighting Technology	LED
Glow-wire test	Temperature 650 °C, duration 5 s
Flammability mark	-
CE mark	Yes
ENEC mark	ENEC mark
Warranty period	5 years
EU RoHS compliant	Yes
Light Technical	
Upward light output ratio	0.03
Luminous Flux	2,798 lm
Standard tilt angle posttop	10°
Standard tilt angle side entry	0°
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	119 lm/W

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Color rendering index (CRI)	70	
Light source color	740 neutral white	
Optical cover type	Polycarbonate bowl/cover	
Luminaire light beam spread	180°	
Optic type outdoor	Medium wide street optic	
Operating and Electrical		
Input Voltage	220 to 240 V	
Line Frequency	50 to 60 Hz	
Inrush current	22 A	
Inrush time	0.29 ms	
Power Consumption	23.5 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 °C	
Controls and Dimming		
Dimmable	No	
Driver/power unit/transformer	Power supply unit regulating	
Constant light output	No	
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	(0.38,0.37) SDCM<5
Power consumption tolerance	+/-10%
Init. Color Rendering Index Tolerance	+/-2
Over Time Performance (IEC Compl Control gear failure rate at median useful	-
Control gear failure rate at median useful life 75000 h Lumen maintenance at median useful	-
Control gear failure rate at median useful life 75000 h Lumen maintenance at median useful life* 75000 h	7.5 %
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Control gear failure rate at median useful life 75000 h Lumen maintenance at median useful life* 75000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name Full product code Order code	7.5 % L80 25 ℃ BGS451 ECO2825/740 I MSO GR P3 BGS451 ECO2825/740 I MSO GR P3 871794385066200 910504998318
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Dimensional drawing



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Iridium LED Mini



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