PHILIPS Lighting



Iridium LED Mini

BGS451 ECO43--2S/740 I MSO GR

Mini Iridium LED, LED EconomyLine 4300 lm, 740 neutral white, Safety class I, Medium wide street optic, Grey

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 InformationLamp family codeECO43 [LED EconomyLine 4300 lm]Light source replaceableYesNumber of gear unitsUnitDriver includedYesPhotocell-Remarks*- According to the Lighting Europe guidance paper 'Evaluating performance of LED based luminaires - January 2018': statistically there is no relevant difference in lumen maintenance between the B50 and, for example, the B10. Therefore, the median useful life (B50) value also represents the B10 value.Light source engine typeLEDProduct family codeBGS451 [Mini Iridium LED]Lighting TechnologyLED		
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Product family code BGS451 [Mini Iridium LED]		B10 value.
	Light source engine type	LED
Lighting Technology LED	Product family code	BGS451 [Mini Iridium LED]
	Lighting Technology	LED

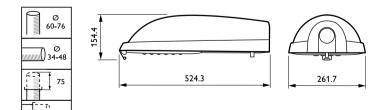
Embedded control	-
CE mark	Yes
Warranty period	5 years
Flammability mark	-
ENEC mark	ENEC mark
Glow-wire test	Temperature 650 °C, duration 5 s
EU RoHS compliant	Yes
Light Technical	
Upwards light output ratio	0.03
Luminous Flux	4,321 lm
Standard tilt angle post-top	10°
Standard tilt angle side entry	0°
Correlated Colour Temperature	4000 K
Luminous efficacy (rated) (nom.)	122 lm/W
Colour rendering index (CRI)	70

Iridium LED Mini

	740
Light source colour	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	35.2 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	Aluminium
Reflector material	-
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	Aluminium
Housing Colour	Grey
Mounting device	Post-top for diameter 60 to 76 mm
Optical cover/lens shape	Convex lens
Optical cover/lens finish	Clear
Overall length	529 mm
Overall width	265 mm
Overall height	154.5 mm

Effective projected area	0.032 m ²
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 up to 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 Comp	liant)
Control gear failure rate at median usefu life 50,000 h	l 7.5 %
Lumen maintenance at median useful life* 75000 h	L80
Application Conditions	
Performance ambient temperature Tq	25 °C
Product Data	
Order product name	BGS451 ECO432S/740 I MSO GR
Full product name	BGS451 ECO432S/740 I MSO GR
Full EOC	871794385073000
Order code	85073000
Material no. (12 NC)	910504999018
SAP numerator – quantity per pack	1
SAP numerator – quantity per pack	· · · · · · · · · · · · · · · · · · ·
EAN/UPC — Product/Case	8717943850730
	8717943850730

Dimensional drawing



80

Iridium LED Mini



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