



Iridium LED Mini

BGS451 ECO28--2S/740 I MSO GR

Mini Iridium LED, LED EconomyLine 2800 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 Information			
Lamp family code	ECO28 [LED EconomyLine 2800 lm]	CE mark	Yes
Light source replaceable	Yes	Warranty period	5 years
Number of gear units	Unit	Flammability mark	-
Driver included	Yes	ENEC mark	ENEC mark
Photocell	-	Glow-wire test	Temperature 650 °C, duration 5 s
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.	EU RoHS compliant	Yes
Light source engine type	LED	Light Technical	
Product family code	BGS451 [Mini Iridium LED]	Upwards light output ratio	0.03
Lighting Technology	LED	Luminous Flux	2,798 lm
		Standard tilt angle post-top	10°
		Standard tilt angle side entry	0°
		Correlated Colour Temperature	4000 K
		Luminous efficacy (rated) (nom.)	119 lm/W
		Colour rendering index (CRI)	70
		Light source colour	740 neutral white

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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 B	20

Temperature

Ambient temperature range	-20 to +35 °C
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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 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 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 Compliant)

Control gear failure rate at median useful life 50,000 h	7.5 %
Lumen maintenance at median useful life* 75000 h	L80

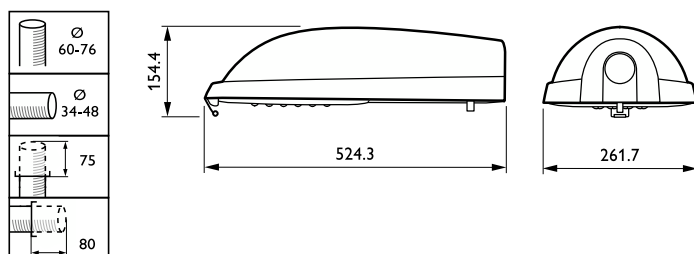
Application Conditions

Performance ambient temperature Tq	25 °C
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Product Data

Order product name	BGS451 ECO28--25/740 I MSO GR
Full product name	BGS451 ECO28--25/740 I MSO GR
Full EOC	871794385072300
Order code	85072300
Material no. (12 NC)	910504998918
SAP numerator – quantity per pack	1
EAN/UPC – Product/Case	8717943850723
Numerator – packs per outer box	1
EAN/UPC – Case	8717943850723

Dimensional drawing



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