



Iridium LED Mini

BGS451 ECO43--2S/740 I MSO GR RF

Mini Iridium LED, LED EconomyLine 4300 lm, Medium wide street optic

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	ECO43 [LED EconomyLine 4300 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	-
Light Technical	
Upward light output ratio	0.03
Luminous Flux	4,321 lm
Standard tilt angle posttop	10°
Standard tilt angle side entry	O°
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	122 lm/W
Color rendering index (CRI)	70

Datasheet, 2023, September 4 data subject to change

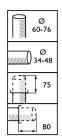
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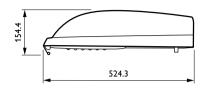
Light source color	740 neutral white
Optical cover type	Polycarbonate bowl/cover
Luminaire light beam spread	180°
Optic type outdoor	Medium wide street optic
2,000	
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	35 A
Inrush time	0.35 ms
Power Consumption	35.2 W
Power Factor (Fraction)	0.95
Connection	Internal connector
Cable	-
Number of products on MCB of 16 A type	11
В	
Temperature	
Ambient temperature range	-20 to +35 °C
Controls and Dimming	
Dimmable	Yes
Driver/power unit/transformer	Power supply unit regulating
Control interface	DALI
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	228 mm

Effective projected area	0.032 m ²
Dimensions (Height x Width x Depth)	228 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 4 kV
	differential mode and 4 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	liant)
Control gear failure rate at median useful	7.5 %
life 75000 h	
Lumen maintenance at median useful	L80
life* 75000 h	
Application Conditions	
Performance ambient temperature Tq	25 ℃
Maximum dim level	20%
Maximum dim level	20%
Product Data	20%
	20% BGS451 ECO432S/740 I MSO GR RF
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Dimensional drawing









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