# **PHILIPS** Lighting



# Iridium<sup>2</sup> LED Medium

# BGP352 ECO81-3S/830 II DM AL GR LS-6 50%

Iridium<sup>2</sup> LED Medium, LED EconomyLine 8100 lm, 830 warm white, Safety class II, Distribution medium, Grey, LumiStep dimming 6 hours

Iridium<sup>2</sup> is a family of road-lighting luminaires designed for performance and sustainability. Depending on the application and budget, customers can start with LED, electronic HID or a mix of both technologies with the same luminaire. Whatever the initial choice, Iridium<sup>2</sup>'s modularity allows customers to upgrade their installations (LED to LED or e-HID to LED) whenever they want, simply by changing the light engine. The integration of LEDGINE, brand new HID optics, electronic gear and controls is a response to the growing demand for energy savings. The new Iridium<sup>2</sup> HID optics are designed to deliver best-in-class lighting performance while offering tremendous flexibility in application. All these features, combined with Iridium<sup>2</sup>'s ease of installation and maintenance, ensure that customers enjoy low cost of ownership.

#### **Product data**

General Information	
Lamp family code	ECO81 [LED EconomyLine 8100 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	BGP352 [Iridium <sup>2</sup> LED Medium]
Lighting Technology	LED
Embedded control	LumiStep dimming 6 hours
CE mark	Yes
Warranty period	5 years
Flammability mark	-
ENEC mark	-

### Iridium<sup>2</sup> LED Medium

EU RoHS compliant	No
Light Technical	
Upward light output ratio	0
Luminous Flux	7,077 lm
Standard tilt angle posttop	O°
Standard tilt angle side entry	O°
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	88 lm/W
Color rendering index (CRI)	80
Number of light sources	48
Light source color	830 warm white
Optical cover type	Flat glass
Luminaire light beam spread	150° x 62°
Optic type outdoor	Distribution medium

#### **Operating and Electrical**

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	53 A
Inrush time	0.3 ms
Power Consumption	85 W
Power Factor (Fraction)	0.9
Connection	Plug-in connector 3-pole Wieland/Adels
	compatible
Cable	-
Number of products on MCB of 16 A type	8
Number of products on MCB of 16 A type B	8
	8
	8
B	8 -25 to +25 °C
B Temperature	
B Temperature	
B Temperature Ambient temperature range	

Driver/power unit/transformer	Power supply unit with DynaDimmer
Control interface	-
Constant light output	No

#### Mechanical and Housing

Aluminum die cast
Acrylate
Polycarbonate
Tempered glass
Stainless steel
Grey
Universal for diameter 48 to 76 mm

Optical cover shape	Flat
Optical cover finish	Clear
Overall length	751 mm
Overall width	358 mm
Overall height	183 mm
Effective projected area	0.08 m²
Dimensions (Height x Width x Depth)	183 x 358 x 751 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)	Philips standard surge protection level
Protection class IEC	Safety class II

#### Initial Performance (IEC Compliant)

· · · ·	,,,,,,,
Luminous flux tolerance	+/-7%
Initial chromaticity	(0.430, 0.300) SDCM <5
Power consumption tolerance	+/-10%
Init. Color Rendering Index Tolerance	+/-2

#### Over Time Performance (IEC Compliant)

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

#### **Application Conditions**

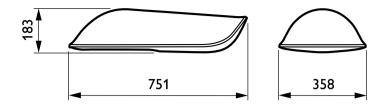
Performance ambient temperature Tq	25 °C
Maximum dim level	50%

#### Product Data

Order product name	BGP352 ECO81-3S/830 II DM AL GR LS-6
	50%
Full product name	BGP352 ECO81-3S/830 II DM AL GR LS-6
	50%
Full product code	871829142519900
Order code	42519900
Material Nr. (12NC)	910925439581
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718291425199
Numerator - Packs per outer box	1
EAN/UPC - Case	8718291425199

## Iridium<sup>2</sup> LED Medium

Dimensional drawing





© 2023 Signify Holding All rights reserved. Signify does not give any representation or warranty as to the accuracy or completeness of the information included herein and shall not be liable for any action in reliance thereon. The information presented in this document is not intended as any commercial offer and does not form part of any quotation or contract, unless otherwise agreed by Signify. Philips and the Philips Shield Emblem are registered trademarks of Koninklijke Philips N.V.

www.lighting.philips.com 2023, April 29 - data subject to change