CoreLine Malaga LED

BRP101 LED44/740 I DM

CoreLine Malaga LED, Street light, 28 W, 3784 lm, 4000 K, CRI70, Distribution medium, Safety class I, IP65, SRG4-4

The Philips CoreLine Malaga LED family consists of two sizes for urban street lighting. Both use a Philips LED engine as a light source and a Philips Xitanium driver – a combination that results in energy savings of 50%. CoreLine Malaga LED has been designed to be as efficient as possible. It offers the same performance as the SON-T 50, 70, 100 and 150W luminaires it replaces, providing the right amount of light in the right place. Furthermore, as the LED light engine in CoreLine Malaga LED will last for the lifetime of the luminaire, it will return your investment simply by saving on the multiple lamp replacements required with SON-T. With its extended gland feature, the CoreLine Malaga LED luminaire is easy to install with no need to open the luminaire to connect the power cable. At the same time, the flat glass cover can be removed to allow access to the driver for maintenance, if required. Special versions of Malaga lighting are available with extra options. However, these specials are manufactured to order only, and have a longer delivery time. The options include: Wide beam (DW) optic, additional surge protection device (10kV), Marine Salt Protection (MSP) paint finish, Micro Mini Pro photocell 35 Lux, a built-in (glass) 6A fuse, and a 3-meter external flying lead cable (H07RN-F). Not all these options can always be combined with each other. For more advice, please consult your Philips partner.

Product data

General Information

Lamp family code	LED44 [LED module 4400 lm]
Light source replaceable	No
Number of gear units	1 unit
Driver included	Yes

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

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	B10. Therefore, the median useful life (B50) value also represents the B10 value.	Optical cover shape	Flat
		Optical cover finish	Clear
Light source engine type	LED	Overall length	333 mm
Service tag	Yes	Overall width	197 mm
Product family code	BRP101 [CoreLine Malaga LED small]	Overall height	78 mm
Lighting Technology	LED	Effective projected area	0.016478 m²
Value ladder	Performance	Dimensions (Height x Width x Depth)	78 x 197 x 333 mm

Light Technical

Upward light output ratio	0
Luminous Flux	3,784 lm
Standard tilt angle posttop	–
Standard tilt angle side entry	0°
Luminous Efficacy (rated) (Nom)	135 lm/W
Correlated Color Temperature (Nom)	4000 K
Color rendering index (CRI)	70
Light source color	740 neutral white
Optical cover type	Flat glass
Luminaire light beam spread	–
Optic type outdoor	Distribution medium

Approval and Application

Ingress protection code	IP65 [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
Sustainability rating	–
Protection class IEC	Safety class I
Flammability mark	–
CE mark	Yes
ENEC mark	ENEC mark
Warranty period	5 years
Photobiological risk	Photobiological risk group 1 @200mm to EN62778
EU RoHS compliant	Yes

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Initial CLO power consumption	N/A W
Average CLO power consumption	N/A W
End CLO power consumption	N/A W
Inrush current	7.1 A
Inrush time	61.2 ms
Power Consumption	28 W
Power Factor (Fraction)	0.98
Connection	Push-in connector and pull relief
Cable	–
Number of products on MCB of 16 A type B	11

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-7%
Initial chromaticity	(0.41, 0.39) 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 50000 h	5 %
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful life* 50000 h	L89
Lumen maintenance at median useful life* 100000 h	L70

Temperature

Ambient temperature range	–40 to +35 °C

Controls and Dimming

Dimmable	No
Driver/power unit/transformer	Power supply unit (On/Off)
Constant light output	No

Application Conditions

Performance ambient temperature Tq	25 °C
Maximum dim level	Not applicable

Mechanical and Housing

Housing Material	Aluminum die cast
Reflector material	–
Optic material	Polymethyl methacrylate
Optical cover material	Tempered glass
Fixation material	Aluminum
Housing Color	Gray
Mounting device	Universal for diameter 42 to 60 mm adjustable

Product Data

Order product name	BRP101 LED44/740 I DM
Full product name	BRP101 LED44/740 I DM
Full product code	–
Order code	910925869855
Material Nr. (12NC)	910925869855
Numerator – Quantity Per Pack	1
Net Weight (Piece)	2.200 kg

EAN/UPC – Product/Case	8718696998151
Numerator – Packs per outer box	1
EAN/UPC – Case	8718696998151

Dimensional drawing