



Villa LED gen2

BDP768 LED50/830 II DM50 MK-BK FG BALL 3

Villa LED gen2, LED module 5000 lm, 830 warm white, Power supply unit (On/Off), Safety class II, Distribution medium 50, Flat glass, Black

Philips Villa LED gen2 is designed to offer the perfect balance between heritage preservation and performance. Designed with the specific proportions and shape of the traditional four-sided luminaires originally used in Madrid in the 19th century, Villa LED gen2 is now widely used for street lighting in historical environments and traditional towns and villages across the Iberian Peninsula. Thanks to the Philips LEDGINE-O engine, and the wide range of application-tailored optics, Villa LED gen2 delivers the right amount light precisely where it is needed, enabling further energy savings. This urban lamp can even be equipped with our dedicated light recipe that preserves dark skies. Villa LED gen2 is also future ready with a choice of one or two Philips System Ready (SR) sockets that enable the luminaire to be paired with both standalone and advanced control and lighting software applications such as Interact from Signify. In addition, every Villa LED gen2 luminaire is uniquely identifiable, thanks to the Signify Service tag app. By simply scanning a QR code, placed inside the door of the mast or directly on the luminaire, you can instantly access the configuration of the luminaire. This makes maintenance and programing operations faster and easier, and enables you to create a digital library of lighting assets and spare parts.

Product data

General Information		Remarks	* At extreme ambient temperatures the luminaire might automatically dim down to protect components
Lamp family code	LED50 [LED module 5000 lm]		
Light source replaceable	Yes		
Number of gear units	1 unit	Light source engine type	LED
Driver included	Yes	Product family code	BDP768 [Villa LED gen2]

Villa LED gen2

Lighting Technology	LED
Value ladder	Performance
CE mark	Yes
Warranty period	5 years
Flammability mark	-
ENEC mark	ENEC mark
EU RoHS compliant	Yes

Light Technical

Upward light output ratio	0.01
Luminous Flux	3,450 lm
Standard tilt angle posttop	-
Standard tilt angle side entry	-
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	91 lm/W
Color rendering index (CRI)	≥80
Light source color	830 warm white
Optical cover type	Flat glass
Luminaire light beam spread	30° - 5° x 153°
Optic type outdoor	Distribution medium 50

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	46 A
Inrush time	0.25 ms
Power Consumption	38 W
Power Factor (Fraction)	0.97
Connection	Plug-in connector 2-pole Wieland/Adels compatible
Cable	-
Number of products on MCB of 16 A type B	11

Temperature

Ambient temperature range	-40 to +50 °C
---------------------------	---------------

Controls and Dimming

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

Mechanical and Housing

Housing Material	Aluminum
Reflector material	-
Optic material	Polymethyl methacrylate
Optical cover material	Glass
Fixation material	Aluminum
Housing Color	Black

Mounting device	-
Optical cover shape	Flat
Optical cover finish	Clear
Overall length	400 mm
Overall width	400 mm
Overall height	650 mm
Effective projected area	0.2 m²
Dimensions (Height x Width x Depth)	650 x 400 x 400 mm

Approval and Application

Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK09 [10 J]
Surge Protection (Common/Differential)	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
Sustainability rating	Lighting for circularity
Protection class IEC	Safety class II
Photobiological risk	Photobiological risk group 0 @200mm to EN62778

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-7%
Initial chromaticity	(0.381, 0.379) 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 100000 h	10 %
Lumen maintenance at median useful life* 100000 h	L97

Application Conditions

Performance ambient temperature Tq	25 °C
------------------------------------	-------

Product Data

Order product name	BDP768 LED50/830 II DM50 MK-BK FG BALL 3
Full product name	BDP768 LED50/830 II DM50 MK-BK FG BALL 3
Full product code	871869989201200
Order code	912300024528
Material Nr. (12NC)	912300024528
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718699892012
Numerator - Packs per outer box	1
EAN/UPC - Case	8718699892012

Villa LED gen2

Dimensional drawing

