# **PHILIPS** Lighting



# Villa LED

# BDP765 LED90-4S/830 PSR DM50 BK D4 50%

VILLA LED, LED module 9000 lm, 830 warm white, Power supply unit regulating, Safety class I, Distribution medium 50, Flat glass, Black

Villa LED retains the specific proportions and shape of the traditional four-sided luminaires originally used in 19th century Madrid. It allows a remarkable balance between performance and heritage preservation. Now widely used across the Iberian Peninsula, Villa LED is suitable for lighting historical environments and traditional towns and villages. Villa LED also allows municipalities to enjoy the benefits of the latest technologies developed by Philips Lighting, including the CityTouch connected lighting system. Villa LED is also equipped with dedicated light recipe that preserves a dark night sky.

#### Product data

General Information	
Lamp family code	LED90 [LED module 9000 lm]
Light source replaceable	Yes
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
	B10. Therefore, the median useful life (B50)
	value also represents the B10 value. * At
	extreme ambient temperatures the luminaire

	might automatically dim down to protect
	components
Light source engine type	LED
Product family code	BDP765 [VILLA LED]
Lighting Technology	LED
CE mark	Yes
Warranty period	5 years
Flammability mark	-
ENEC mark	ENEC mark
EU RoHS compliant	Yes
Light Technical	
Upward light output ratio	0.03
Luminous Flux	7,020 lm
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### Villa LED

Standard tilt angle posttop	O°
Standard tilt angle side entry	O°
Correlated Color Temperature (Nom)	3000 K
Luminous Efficacy (rated) (Nom)	102 lm/W
Color rendering index (CRI)	≥80
Number of light sources	40
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	80 A
Inrush time	0.15 ms
Power Consumption	69 W
Power Factor (Fraction)	0.99
Connection	Screw connector
Cable	-
Number of products on MCB of 16 A type	9

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#### Temperature

Ambient	temperature	range

Yes
Power supply unit regulating
Analog
No

-40 to +50 °C

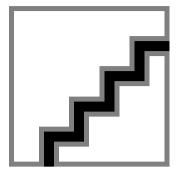
#### Mechanical and Housing

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Housing Material	Aluminum
Reflector material	Glass
Optic material	Polymethyl methacrylate
Optical cover material	Glass
Fixation material	Aluminum
Housing Color	Black
Mounting device	Decorative frog version 1
Optical cover shape	Flat
Optical cover finish	Clear
Overall length	440 mm

Overall width	440 mm
Overall height	764 mm
Effective projected area	0.26 m²
Dimensions (Height x Width x Depth)	764 x 440 x 440 mm
Approval and Application	
Ingress protection code	IP44 [Wire-protected, splash-proof]
Mech. impact protection code	IK09 [10 J]
Surge Protection (Common/Differential)	Luminaire surge protection level until 10 kV
	differential mode and 10 kV common mode
Protection class IEC	Safety class I
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 Comp	liant)
Over Time Performance (IEC Comp Control gear failure rate at median usefu	
Control gear failure rate at median usefu	
Control gear failure rate at median usefu life 100000 h	l 10 %
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Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Maximum dim level	L89 25 °C 50%
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Maximum dim level Product Data	L89 25 °C 50%
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Maximum dim level Product Data	L89 25 °C 50% BDP765 LED90-45/830 PSR DM50 BK D4 50%
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## Villa LED

#### Dimensional drawing





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