



OptiFlood LED BVP506

BVP506 GRN107-3S/740 II DM GR T35

OptiFlood LED, LED GreenLine 10700 lm, Distribution medium

OptiFlood LED is a range of stylish, extremely efficient asymmetric floodlights that can be used to illuminate large areas. Designed around the latest LED technology, it offers significant energy and maintenance savings compared with conventional HID systems. Thanks to its highly efficient LEDGine area optics, it can be used for area lighting applications that have traditionally required HID-equivalent power levels. Integrated controls are available as an option, enabling additional energy savings. And LED upgrades can be easily incorporated, making this a truly future-proof solution. With its compact shape and aesthetically pleasing design, OptiFlood LED can be used in applications where design and appearance are just important as technical performance.

Product data

General Information	
Lamp family code	GRN107 [LED GreenLine 10700 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	BVP506 [OptiFlood LED]
Lighting Technology	LED
Embedded control	-
CE mark	Yes
Warranty period	5 years
Flammability mark	-
ENEC mark	ENEC mark
EU RoHS compliant	Yes

OptiFlood LED BVP506

Light Technical	
Upward light output ratio	0
Luminous Flux	9,149 lm
Standard tilt angle posttop	0°
Standard tilt angle side entry	0°
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	113 lm/W
Color rendering index (CRI)	70
Number of light sources	80
Light source color	740 neutral white
Optical cover type	Clear glass
Luminaire light beam spread	73° x 26°
Optic type outdoor	Distribution medium

Optical cover shape	Flat
Optical cover finish	Clear
Overall length	730 mm
Overall width	460 mm
Overall height	176 mm
Effective projected area	0.1 m²
Dimensions (Height x Width x Depth)	176 x 460 x 730 mm

Approval and Application

Ingress protection code	IP66 [Dust penetration-protected, jet-
	proof]
Mech. impact protection code	IK09 [10 J]
Surge Protection (Common/Differential)	4/4 kV
Protection class IEC	Safety class II

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-7%
Initial chromaticity	(0.38, 0.38) SDCM <5
Power consumption tolerance	+/-10%
Init. Color Rendering Index Tolerance	+/-2

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful	10 %
life 100000 h	
Lumen maintenance at median useful life*	L80

Application Conditions

Performance ambient temperature Tq	25 ℃
Maximum dim level	Not applicable

Product Data

Troduct Butu	
Order product name	BVP506 GRN107-3S/740 II DM GR T35
Full product name	BVP506 GRN107-3S/740 II DM GR T35
Full product code	871829141842900
Order code	41842900
Material Nr. (12NC)	910925439418
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8718291418429
Numerator - Packs per outer box	1
EAN/UPC - Case	8718291418429

Operating and Electrical

Input Voltage220 to 240 VLine Frequency50 to 60 HzAverage CLO power consumption[delete] WEnd CLO power consumption[delete] WInrush current53 AInrush time0.3 msPower Consumption81 WPower Factor (Fraction)0.9ConnectionScrew connectorCable-Number of products on MCB of 16 A type B8		
Average CLO power consumption [delete] W End CLO power consumption [delete] W Inrush current 53 A Inrush time 0.3 ms Power Consumption 81 W Power Factor (Fraction) 0.9 Connection Screw connector Cable -	Input Voltage	220 to 240 V
End CLO power consumption [delete] W Inrush current 53 A Inrush time 0.3 ms Power Consumption 81 W Power Factor (Fraction) 0.9 Connection Screw connector Cable -	Line Frequency	50 to 60 Hz
Inrush current 53 A Inrush time 0.3 ms Power Consumption 81 W Power Factor (Fraction) 0.9 Connection Screw connector Cable -	Average CLO power consumption	[delete] W
Inrush time 0.3 ms Power Consumption 81 W Power Factor (Fraction) 0.9 Connection Screw connector Cable -	End CLO power consumption	[delete] W
Power Consumption 81 W Power Factor (Fraction) 0.9 Connection Screw connector Cable -	Inrush current	53 A
Power Factor (Fraction) 0.9 Connection Screw connector Cable -	Inrush time	0.3 ms
Connection Screw connector Cable -	Power Consumption	81 W
Cable -	Power Factor (Fraction)	0.9
	Connection	Screw connector
Number of products on MCB of 16 A type B 8	Cable	-
	Number of products on MCB of 16 A type B	8

Temperature

Ambient temperature range

Controls and Dimming

Dimmable	No
Driver/power unit/transformer	Power supply unit regulating
Control interface	-
Constant light output	No

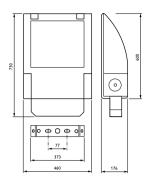
-30 to +35 °C

Mechanical and Housing

Housing Material	Aluminum
Reflector material	-
Optic material	Polycarbonate
Optical cover material	Glass
Fixation material	Aluminum
Housing Color	Grey
Mounting device	-

OptiFlood LED BVP506

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