



OptiFlood LED BVP506

BVP506 ECO166-3S/657 II S GR T35

OptiFlood LED, LED EconomyLine 16600 lm, Symmetrical

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	ECO166 [LED EconomyLine 16600 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

Datasheet, 2023, April 29 data subject to change

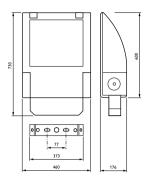
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Light Technical	
Upward light output ratio	0
Luminous Flux	14,380 lm
Standard tilt angle posttop	O°
Standard tilt angle side entry	O°
Correlated Color Temperature (Nom)	5700 K
Luminous Efficacy (rated) (Nom)	99 lm/W
Color rendering index (CRI)	70
Number of light sources	64
Light source color	757 cool white
Optical cover type	Clear glass
Luminaire light beam spread	53° x 71°
Optic type outdoor	Symmetrical
Operating and Electrical	
Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Average CLO power consumption	[delete] W
End CLO power consumption	[delete] W
Inrush current	53 A
Inrush time	0.3 ms
Power Consumption	140 W
Power Factor (Fraction)	0.9
Connection	Screw connector
Cable	-
Number of products on MCB of 16 A type B	8
Temperature	
Ambient temperature range	-30 to +35 ℃
Controls and Dimming	
Dimmable	No
Driver/power unit/transformer	Power supply unit regulating
Control interface	
Constant light output	No
Mechanical and Housing	
Housing Material	Aluminum
Reflector material	
Optic material	Polycarbonate
Optical cover material	Glass
Fixation material	Aluminum
Housing Color	Grey
Mounting device	

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	(0.33, 0.34) SDCM <5
Power consumption tolerance	+/-10%
Init. Color Rendering Index Tolerance	+/-2
Over Time Performance (IEC Complia	nt)
Over Time Performance (IEC Compliano Control gear failure rate at median useful	7.5 %
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Control gear failure rate at median useful life 75000 h	7.5 %
Control gear failure rate at median useful life 75000 h Lumen maintenance at median useful life*	7.5 %
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Control gear failure rate at median useful life 75000 h Lumen maintenance at median useful life* 75000 h Application Conditions Performance ambient temperature Tq Maximum dim level Product Data Order product name Full product name	7.5 % L80 25 °C Not applicable BVP506 EC0166-3S/657 II S GR T35 BVP506 EC0166-3S/657 II S GR T35
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Control gear failure rate at median useful life 75000 h Lumen maintenance at median useful life* 75000 h Application Conditions Performance ambient temperature Tq Maximum dim level Product Data Order product name Full product name Full product code Order code Material Nr. (12NC)	7.5 % L80 25 °C Not applicable BVP506 EC0166-3S/657 II S GR T35 BVP506 EC0166-3S/657 II S GR T35 871829141821400 41821400 910925439396
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Dimensional drawing





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