# **PHILIPS** Lighting



# ClearFlood

## BVP650 LED180-4S/740 PSU OFA52 ALU

ClearFlood, LED module 18000 lm, LED, Power supply unit (On/Off), Optiflux asymmetrical axis angle 52°, Aluminum

ClearFlood is a range of floodlights that enables you to choose the exact lumen rating that you need for your specific application. Designed around state-of-the-art LEDs and extremely high-efficiency optics, this very competitive solution offers an industry-leading lux per euro ratio and significant energy savings. The choice of different optics in the ClearFlood range opens new application possibilities for LEDs. ClearFlood BVP650 is also easy to install and to maintain.

#### **Product data**

General Information	
Lamp family code	LED180 [LED module 18000 lm]
Light source replaceable	Yes
Number of gear units	2 units
Gear	EB [Electronic]
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	BVP650 [ClearFlood]

Lighting Technology	LED
Value ladder	Specification
CE mark	Yes
Warranty period	5 years
Flammability mark	For mounting on normally flammable
	surfaces
ENEC mark	ENEC mark
Glow-wire test	Temperature 960 °C, duration 5 s
EU RoHS compliant	Yes
Light Technical	
Upward light output ratio	0
Luminous Flux	15,500 lm
Standard tilt angle posttop	٥°
Standard tilt angle side entry	٥°
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	145 lm/W

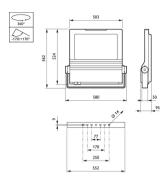
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Color rendering index (CRI)	70
Number of light sources	82
Light source color	740 neutral white
Optical cover type	Flat glass
Luminaire light beam spread	130° x 97°
Optic type outdoor	Optiflux asymmetrical axis angle 52°
Operating and Electrical	
Input Voltage	220-240 V
Line Frequency	50 to 60 Hz
Inrush current	53 A
Inrush time	0.3 ms
Power Consumption	108 W
Power Factor (Fraction)	0.98
Connection	Connection unit 3-pole
Cable	
Number of products on MCB of 16 A type	4
B	-
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 die cast
Reflector material	-
Optic material	Acrylate
Optical cover material	Glass
Fixation material	Steel
Housing Color	Aluminum
Mounting device	Mounting bracket adjustable
Optical cover shape	Flat
Optical cover finish	Clear
Overall length	562 mm
Overall width	580 mm
Overall height	95 mm

Effective projected area	0.26 m <sup>2</sup>
Dimensions (Height x Width x Depth)	95 x 580 x 562 mm
Approval and Application	
	IP66 (Dust population protocted int proof
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 I
Photobiological risk	Photobiological risk group 1@200mm to
	EN62778
Initial Performance (IEC Compliant)	
Luminous flux tolerance	+/-7%
Initial chromaticity	(0.380, 0.390) SDCM <5
Power consumption tolerance	+/-10%
Init. Color Rendering Index Tolerance	+/-2
Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful	L97
Lumen maintenance at median useful life* 100000 h	L97
	L97
life* 100000 h	L97 25 °C
life* 100000 h Application Conditions	
life* 100000 h Application Conditions Performance ambient temperature Tq	
life* 100000 h Application Conditions Performance ambient temperature Tq Product Data	25 °C
life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name	25 °C BVP650 LED180-4S/740 PSU OFA52 ALU
life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name	25 °C 25 °C BVP650 LED180-4S/740 PSU OFA52 ALU BVP650 LED180-4S/740 PSU OFA52 ALU
life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name Full product code	25 °C 25 °C BVP650 LED180-45/740 PSU OFA52 ALU BVP650 LED180-45/740 PSU OFA52 ALU 871869909048700
life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name Full product code Order code Material Nr. (12NC)	25 °C 25 °C BVP650 LED180-4S/740 PSU OFA52 ALU BVP650 LED180-4S/740 PSU OFA52 ALU 871869909048700 912300023526
life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack	25 °C 25 °C BVP650 LED180-4S/740 PSU OFA52 ALU BVP650 LED180-4S/740 PSU OFA52 ALU 871869909048700 912300023526 912300023526
life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack EAN/UPC - Product/Case	25 °C 25 °C BVP650 LED180-45/740 PSU OFA52 ALU BVP650 LED180-45/740 PSU OFA52 ALU 871869909048700 912300023526 912300023526 1
life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name Full product code Order code Material Nr. (12NC) Numerator - Quantity Per Pack	25 °C 25 °C 8VP650 LED180-4S/740 PSU OFA52 ALU 8VP650 LED180-4S/740 PSU OFA52 ALU 871869909048700 912300023526 912300023526 1

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#### Dimensional drawing





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