PHILIPS Lighting



ClearFlood

BVP650 LED420-4S/740 DX50 ALU PSU

ClearFlood, LED module 42000 lm, LED, Power supply unit (On/Off), Distribution extra wide 50, 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	LED420 [LED module 42000 lm]
Light source replaceable	Yes
Number of gear units	2 units
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

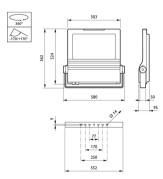
Value ladder	Specification
CE mark	Yes
Warranty period	5 years
Flammability mark	For mounting on normally flammable surfaces
ENEC mark	ENEC mark
EU RoHS compliant	Yes
Light Technical	
Upward light output ratio	0
Luminous Flux	34,000 lm
Standard tilt angle posttop	0°
Standard tilt angle side entry	O°
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	128 lm/W
Color rendering index (CRI)	70
Light source color	740 neutral white
Optical cover type	Flat glass

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Luminaire light beam spread	17° - 5° x 132°
Optic type outdoor	Distribution extra wide 50
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	265 W
Power Factor (Fraction)	0.99
Connection	Connection unit 3-pole
Cable	-
Number of products on MCB of 16 A type B	4
Temperature	
Ambient temperature range	-40 to +50 °C
Controls and Dimming	
Dimmable	No
Driver/power unit/transformer	Power supply unit (On/Off)
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	529 mm
o II - III	580 mm
Overall width	
Overall width Overall height	95 mm

Dimensions (Height x Width x Depth)	95 x 580 x 529 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 I
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
Over Time Performance (IEC Comp Control gear failure rate at median usefu	-
	-
Control gear failure rate at median usefu life 100000 h Lumen maintenance at median useful	l 10 %
Control gear failure rate at median usefu life 100000 h Lumen maintenance at median useful life* 100000 h	l 10 %
Control gear failure rate at median usefu life 100000 h	l 10 %
Control gear failure rate at median usefu life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions	L95
Control gear failure rate at median usefu life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq	L95
Control gear failure rate at median usefu life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Product Data	L95 25 °C
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name	L 10 % L95 25 °C BVP650 LED420-4S/740 DX50 ALU PSU
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name	L 10 % L95 25 °C BVP650 LED420-4S/740 DX50 ALU PSU BVP650 LED420-4S/740 DX50 ALU PSU
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name Full product code Order code	L 10 % L95 25 °C BVP650 LED420-4S/740 DX50 ALU PSU BVP650 LED420-4S/740 DX50 ALU PSU 871869912890600
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq Product Data Order product name Full product name Full product code Order code	L 10 % L95 25 °C BVP650 LED420-4S/740 DX50 ALU PSU BVP650 LED420-4S/740 DX50 ALU PSU 871869912890600 912300023949
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful 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)	L 10 % L95 25 °C BVP650 LED420-4S/740 DX50 ALU PSU BVP650 LED420-4S/740 DX50 ALU PSU 871869912890600 912300023949 912300023949
Control gear failure rate at median useful life 100000 h Lumen maintenance at median useful 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	L 10 % L95 25 °C BVP650 LED420-4S/740 DX50 ALU PSU BVP650 LED420-4S/740 DX50 ALU PSU 871869912890600 912300023949 912300023949 1

Dimensional drawing



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