



OptiVision LED gen2

BVP515 1200/740 230V HGB DX50 D9 T25 100

OptiVision LED gen2, LED High Brightness, 740 neutral white, 230 V, Asymmetrical wide beam

The Philips OptiVision LED gen2 floodlighting system provides a complete lighting solution for the simplest through to the most complex area and recreational sports lighting applications. The high-efficiency floodlights come with three or two LED light modules, which function with an external driver box – separate for use at a distance from the floodlight (BV), or pre-fixed onto the mounting bracket of the floodlight (HGB) for ease of installation and lower initial cost. They meet the highest performance standards, provide outstanding light quality, and ensure safety and visual comfort. OptiVision LED gen2 offers new possibilities to reduce energy consumption and increase flexibility (instant start, programmable lighting levels) when used in conjunction with Philips' advanced system controls and sensors. The floodlights are also compatible with other external control systems via DALI protocol.

Product data

General Information		
Lamp family code	LED-HB [LED High Brightness]	
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	BVP515 [OptiVision LED gen2]	
Lighting Technology	LED	
Value ladder	Specification	
CE mark	Yes	
Warranty period	5 years	
Flammability mark	-	
ENEC mark	ENEC mark	

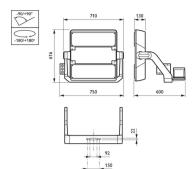
Datasheet, 2023, September 4 data subject to change

OptiVision LED gen2

Part				
Light Technical Dyward light output ratio O Overall width 0 0 0 0 0 0 0 0 0	EU RoHS compliant	Yes	Optical cover shape	Flat
Operating that output ratio O Operating fluid toutput ratio Operating fluid toutput ratio Operating fluid that gries posted or			Optical cover finish	Clear
Control and Dimming Plux 120,000 in Control interface Control and Dimming Control interface Control and Dimming Control interface	Light Technical		Overall length	750 mm
Effective projected area 0.34 m² Standard tilt angle postop -	Upward light output ratio	0	Overall width	616 mm
Standard tilt angle side entry Correlated Color Temperature (Nom) 4000 K	Luminous Flux	120,000 lm	Overall height	600 mm
Correlated Color Temperature (Nom) 4000 K Luminous Efficacy (rated) (Nom) 199 Im/W Light source color 740 neutral white Optical cover type Polycarbonate bowl/cover Utipht source color 740 neutral white Optical cover type Polycarbonate bowl/cover Opticat cover type Optication of Asymmetrical wide beam 90° x 195° comparison of Mech. Impact protection code 1808 [5 J vandal-protected] will ferential mode and 10 kV common mode Protection class IEC Sufety class 1 Input Voltage 230 V Line Frequency 50 Hz Line Frequency 50 Hz Line Frequency 156 ms 100 A Power Exactor (Fraction) 0.9 S Linnush time 16 ms Power Consumption 878 W Power Consumption 878 W Power Consumption 0.9 S Connection Push-in connector and pull relief Cable Temperature Ambient temperature range -40 to +50 °C Control Interface DALI Constant light output No Control Interface DALI Constant light output No Mechanical and Housing Housing Kalerial Autominum Housing Material Autominum Housing Material Polycarbonate Optica Lover material Polycarbonate Polycarbonate Optica Lover material Polycarbonate Housing Color Autominum Approval and Application Ingress protection code 1808 [5 J vandal-protected] with 6 [6 Ms 16 k No protected] with 6 Msch. Impact protection code 1808 [5 J vandal-protected] will 6 Msch. Impact protection code 1808 [5 J vandal-protected] will 6 Msch. Impact protection code 1808 [5 J vandal-protected] will 6 Msch. Impact protection code 1808 [5 J vandal-protected] will 6 Msch. Impact protection code 1808 [5 J vandal-protected] will 6 Msch. Impact protection code 1808 [5 J vandal-protected] will 6 Msch. Impact protection code 1808 [5 J vandal-protected] will 6 Msch. Impact protection code 1808 [5 J vandal-protected] will 6 Msch. Impact protection conditions Initial Cromance (IEC Compliant) Luminous flux tolerance 1/-26 Initial Performance (IEC Compliant) Luminous flux tolerance 1/-27 [10 Junio flux tolerance 1/-26 Initial Performance (IEC Compliant) Luminous flux tolerance 1/-26 Initial Performance (IEC Compliant) Control gear fail	Standard tilt angle posttop	-	Effective projected area	0.34 m²
Approval and Application Ingress protection code IP66 [Dust penetration-protected, pler-proof] IP66 [Dust penetration protected, pler-proof] IP67 [Dust penetration protected, pler-proof] Infinite penetration protected, pler-proof] Infinite penetration protected, pler-proof, ple	Standard tilt angle side entry	-	Dimensions (Height x Width x Depth)	600 x 616 x 750 mm
Ingress protection code IP66 Dust penetration-protected, jet- proof	Correlated Color Temperature (Nom)	4000 K		
Light source color 740 neutral white Opticate cover type Polycarbonate bowl/cover Unminate light beam spread 90°x 136° Optic type outdoor Asymmetrical wide beam Protection (Common/Differential) Luminarier surge protection (evel until 6 kV common mode Optic type outdoor Asymmetrical wide beam Protection class IEC Safety class I Operating and Electrical Innut Voltage 230 V Line Frequency 50 Hz Innut with colorance 150 Mz Common Mz Co	Luminous Efficacy (rated) (Nom)	109 lm/W	Approval and Application	
Surge Protection (Common/Differential) Luminaire surge protection (tevel until 6 kV differential mode and 10 kV common mode of the protection (grown of the protection (tevel until 6 kV differential mode and 10 kV common mode of the protection (grown of the protection (tevel until 6 kV differential mode and 10 kV common mode of the protection (grown of the protection (class IEC) Safety class	Color rendering index (CRI)	≥70	Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Controls and Dimming	Light source color	740 neutral white	Mech. impact protection code	IK08 [5 J vandal-protected]
Optic type outdoor Asymmetrical wide beam Protection class IEC Safety class I Operating and Electrical Input Voltage 230 V Line Frequency 50 Hz Line Frequency 50 Hz Line Frequency 50 Hz Line Frequency 50 Hz Inrush time 16 ms Inrush time 16 ms Inrush time 16 ms Power Consumption 0.95 Connection Push-in connector and pull relief Cable - Control gear failure rate at median useful 10 % title 100000 h Lumen maintenance at median useful 10 % title 100000 h Lumen maintenance at median useful Line 10 ms Temperature Ambient temperature range -40 to +50 °C Performance at median useful 10 % Temperature Ambient temperature range Power supply unit with DALI interface external DALI Constant light output No 100 Control Interface DALI Full product code 8786699116163 Mechanical and Housing Housing Housing Housing Color Aluminum Fixed on material Aluminum Protection class IEC Safety class I Initial Performance (IEC Compliant) Luminous flux tolerance 1-/-7% Initial Performance (IEC Compliant) Control Rendering Index Tolerance 1-/-10% Initial Performance (IEC Compliant) Control Rendering Index Tolerance 1-/-10% Luminous flux tolerance 1-/-7% Initial Performance (IEC Compliant) Control Rendering Index Tolerance 1-/-10% Control Rendering Index Tolerance 1-/-10% Lumen maintenance at median useful 10 % Lumen maintenance a	Optical cover type	Polycarbonate bowl/cover	Surge Protection (Common/Differential)	Luminaire surge protection level until 6 kV
Initial Performance (IEC Compliant) Initial Chromaticity (0.367, 0.358) SDCM <5 Initial Chromaticity (0.367,	Luminaire light beam spread	90° x 136°		differential mode and 10 kV common mode
Luminous flux toterance	Optic type outdoor	Asymmetrical wide beam	Protection class IEC	Safety class I
Luminous flux toterance				
Initial chromaticity	Operating and Electrical		Initial Performance (IEC Compliant)
Inrush current 30 A Power consumption tolerance */-10% Initush time 16 ms Initush time */-2 Initush time Initush	Input Voltage	230 V	Luminous flux tolerance	+/-7%
Init. Color Rendering Index Tolerance +/-2	Line Frequency	50 Hz	Initial chromaticity	(0.367, 0.358) SDCM <5
Power Consumption 878 W Power Factor (Fraction) 0.95 Connection Push-in connector and pull relief Cable - Number of products on MCB of 16 A type B Temperature Ambient temperature range -40 to +50 °C Power Supply unit with DALI interface external Control interface DALI Constant light output No Mechanical and Housing Housing Material Polycarbonate Polycarbonat	Inrush current	30 A	Power consumption tolerance	+/-10%
Power Factor (Fraction) 0.95 Over Time Performance (IEC Compliant) Connection Push-in connector and pull relief Control gear failure rate at median useful. Ite 100000 h 10 % Lumen maintenance at median useful. B Life 100000 h Lumen maintenance at median useful. Ite 100000 h Life 100000 h Temperature Application Conditions Ambient temperature range -40 to +50 °C Performance ambient temperature Tq 25 °C Maximum dim level 10% Controls and Dimming Dimmable Yes Product Data Driver/power unit/transformer Power supply unit with DALI interface external Performance ambient temperature Tq 25 °C Maximum dim level 10% Control interface DALI Product Data Order product name BVP515 1200/740 230V HGB DX50 D9 T25 Constant light output No 100 Full product code 87/869911616300 Mechanical and Housing Aluminum Material Nr. (12NC) 912300023829 Housing Material Polycarbonate Numerator - Quantity Per Pack 1 Optic acover mate	Inrush time	16 ms	Init. Color Rendering Index Tolerance	+/-2
Connection Push-in connector and pull relief Cable - Ulife 100000 h Lumen maintenance at median useful 10 % Lumen maintenance at median useful 1600000 h Lumen maintenance at median useful 16000000 h Lumen maintenance at median useful 16000000 h Lumen maintenance at median useful 16000000 h Lumen maintenance at median useful 16000000000000000000000000000000000000	Power Consumption	878 W		
Cable -	Power Factor (Fraction)	0.95	Over Time Performance (IEC Comp	liant)
Lumen maintenance at median useful life* 100000 h La0	Connection	Push-in connector and pull relief	Control gear failure rate at median usefu	l 10 %
B Itife* 100000 h	Cable	-	life 100000 h	
Temperature Ambient temperature range -40 to +50 °C Performance ambient temperature Tq 25 °C Maximum dim level 10% Controls and Dimming Dimmable Yes Product Data Driver/power unit/transformer Power supply unit with DALI interface external Control interface DALI Constant light output No Performance ambient temperature Tq 25 °C Maximum dim level 10% Product Data Order product name BVP515 1200/740 230V HGB DX50 D9 T25 100 Full product name BVP515 1200/740 230V HGB DX50 D9 T25 Full product name BVP515 1200/740 230V HGB DX50 D9 T25 100 Full product code 871869911616300 Order code 912300023829 Housing Material Aluminum Material Nr. (12NC) 912300023829 Reflector material Polycarbonate Optic material Polycarbonate Doptical cover material Polycarbonate EAN/UPC - Product/Case 8718699116163 Numerator - Packs per outer box 1 EAN/UPC - Case 8718699116163	Number of products on MCB of 16 A type	e -	Lumen maintenance at median useful	L80
Ambient temperature range -40 to +50 °C Performance ambient temperature Tq 25 °C Maximum dim level 10% Controls and Dimming Dimmable Yes Driver/power unit/transformer Power supply unit with DALI interface external Control interface DALI Constant light output No Mechanical and Housing Housing Material Aluminum Polycarbonate Polycarbonate Polycarbonate Polycarbonate Polycarbonate Performance ambient temperature Tq 25 °C Maximum dim level 10% Performance ambient temperature Tq 25 °C Maximum dim level 10% Product Data Order product name BVP515 1200/740 230V HGB DX50 D9 T25 Full product name Polycarbonate 871869911616300 Order code 912300023829 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718699116163 Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116163	В		life* 100000 h	
Ambient temperature range -40 to +50 °C Performance ambient temperature Tq 25 °C Maximum dim level 10% Controls and Dimming Dimmable Yes Driver/power unit/transformer Power supply unit with DALI interface external Control interface DALI Constant light output No Mechanical and Housing Housing Material Aluminum Polycarbonate Polycarbonate Polycarbonate Polycarbonate Polycarbonate Performance ambient temperature Tq 25 °C Maximum dim level 10% Performance ambient temperature Tq 25 °C Maximum dim level 10% Product Data Order product name BVP515 1200/740 230V HGB DX50 D9 T25 Full product name Polycarbonate 871869911616300 Order code 912300023829 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718699116163 Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116163				
Maximum dim level 10% Controls and Dimming Dimmable Yes Product Data Order product name BVP515 1200/740 230V HGB DX50 D9 T25 100 100 Control interface DALI Constant light output No Mechanical and Housing Housing Material Aluminum Reflector material Polycarbonate Optic material Polycarbonate Polycarbonate Full product code P12300023829 Mumerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718699116163 Numerator - Packs per outer box 1 EAN/UPC - Case 8718699116163 Numerator - Packs per outer box 1 EAN/UPC - Case 8718699116163	Temperature		Application Conditions	
Controls and Dimming Product Data	Ambient temperature range	-40 to +50 °C	Performance ambient temperature Tq	25 ℃
DimmableYesProduct DataDriver/power unit/transformerPower supply unit with DALI interface externalOrder product nameBVP515 1200/740 230V HGB DX50 D9 T25 100Control interfaceDALIFull product nameBVP515 1200/740 230V HGB DX50 D9 T25 100Constant light outputNo100Mechanical and HousingFull product code871869911616300Housing MaterialAluminumMaterial Nr. (12NC)912300023829Reflector materialPolycarbonateNumerator - Quantity Per Pack1Optic materialPolycarbonateEAN/UPC - Product/Case8718699116163Optical cover materialAluminumEAN/UPC - Case8718699116163Housing ColorAluminumEAN/UPC - Case8718699116163			Maximum dim level	10%
Driver/power unit/transformer Power supply unit with DALI interface external Power supply unit with DALI interface into into into into into into into into	Controls and Dimming			
External100Control interfaceDALIFull product nameBVP515 1200/740 230V HGB DX50 D9 T25Constant light outputNo100Full product code871869911616300Mechanical and HousingOrder code912300023829Housing MaterialAluminumMaterial Nr. (12NC)912300023829Reflector materialPolycarbonateNumerator - Quantity Per Pack1Optic materialPolycarbonateEAN/UPC - Product/Case8718699116163Optical cover materialPolycarbonateNumerator - Packs per outer box1Fixation materialAluminumEAN/UPC - Case8718699116163Housing ColorAluminumEAN/UPC - Case8718699116163	Dimmable	Yes	Product Data	
Control interface Constant light output No Full product name BVP515 1200/740 230V HGB DX50 D9 T25 100 Full product code 871869911616300 Mechanical and Housing Housing Material Aluminum Material Nr. (12NC) Polycarbonate Numerator - Quantity Per Pack Optic material Polycarbonate Polycarbonate EAN/UPC - Product/Case 8718699116163 Numerator - Packs per outer box I EAN/UPC - Case 8718699116163	Driver/power unit/transformer	Power supply unit with DALI interface	Order product name	BVP515 1200/740 230V HGB DX50 D9 T25
Constant light output No Full product code 871869911616300 Mechanical and Housing Housing Material Aluminum Material Nr. (12NC) 912300023829 Reflector material Polycarbonate Numerator - Quantity Per Pack 1 Optic material Polycarbonate EAN/UPC - Product/Case 8718699116163 Optical cover material Polycarbonate Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116163 Housing Color Aluminum		external		100
Full product code 871869911616300 Mechanical and Housing Housing Material Aluminum Material Nr. (12NC) 912300023829 Reflector material Polycarbonate Numerator - Quantity Per Pack 1 Optic material Polycarbonate EAN/UPC - Product/Case 8718699116163 Optical cover material Polycarbonate Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116163 Housing Color Aluminum	Control interface	DALI	Full product name	BVP515 1200/740 230V HGB DX50 D9 T25
Mechanical and HousingHousing MaterialAluminumMaterial Nr. (12NC)912300023829Reflector materialPolycarbonateNumerator - Quantity Per Pack1Optic materialPolycarbonateEAN/UPC - Product/Case8718699116163Optical cover materialPolycarbonateNumerator - Packs per outer box1Fixation materialAluminumEAN/UPC - Case8718699116163Housing ColorAluminum	Constant light output	No		100
Housing Material Aluminum Material Nr. (12NC) 912300023829 Reflector material Polycarbonate Numerator - Quantity Per Pack 1 Optic material Polycarbonate EAN/UPC - Product/Case 8718699116163 Optical cover material Polycarbonate Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116163 Housing Color Aluminum			Full product code	871869911616300
Reflector material Polycarbonate Numerator - Quantity Per Pack 1 Optic material Polycarbonate EAN/UPC - Product/Case 8718699116163 Optical cover material Polycarbonate Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116163 Housing Color Aluminum	Mechanical and Housing		Order code	912300023829
Optic material Polycarbonate EAN/UPC - Product/Case 8718699116163 Optical cover material Polycarbonate Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116163 Housing Color Aluminum	Housing Material	Aluminum	Material Nr. (12NC)	912300023829
Optical cover material Polycarbonate Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116163 Housing Color Aluminum	Reflector material	Polycarbonate	Numerator - Quantity Per Pack	1
Fixation material Aluminum EAN/UPC - Case 8718699116163 Housing Color Aluminum	Optic material	Polycarbonate	EAN/UPC - Product/Case	8718699116163
Housing Color Aluminum	Optical cover material	Polycarbonate	Numerator - Packs per outer box	1
	Fixation material	Aluminum	EAN/UPC - Case	8718699116163
Mounting device Mounting bracket adjustable	Housing Color	Aluminum		
	Mounting device	Mounting bracket adjustable		

OptiVision LED gen2

Dimensional drawing





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