



OptiVision LED gen2

BVP525 1800/740 230V BV 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	BVP525 [OptiVision LED gen2]
Lighting Technology	LED
Value ladder	Specification
CE mark	Yes
Warranty period	5 years
Flammability mark	-
ENEC mark	ENEC mark

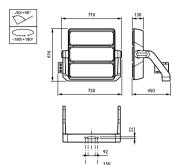
Datasheet, 2023, September 4 data subject to change

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Part				
Light Technical Upward light output ratio 0 Owerall width 6/is rom Owerall width 16/is rom Owerall width 6/is rom Owerall width 6/is rom Owerall width 7/is ower Owerall width 7/is ower Owerall width 8/is rom Owerall width 8/is rom Owerall width 7/is rom Owerall width 8/is width 8/is rom Owerall width 8/is width 8/is rom Owerall width 8/is width 8/is rom Ower transportation ode 8/is rom Ower Transportation Owerall width 8/is rom Ower Transportation O	EU RoHS compliant	Yes	Optical cover shape	Flat
Operating flat output ratio O			Optical cover finish	Clear
Control Flux 180,000 im Control Height 450 mm Effective projected area 0.23 m² Control Height 450 mm Con	Light Technical		Overall length	750 mm
Effective projected area 0.23 m²	Upward light output ratio	0	Overall width	616 mm
Dimensions (Meight x Width x Depth) 450 x 616 x 750 mm	Luminous Flux	180,000 lm	Overall height	450 mm
Correlated Color Temperature (Nom) 4000 K Luminous Efficacy (rated) (Nom) 103 lm/W Light source color 740 neutral white Optical cover type Pobycarbonate bowl/cover Optical cover type Optication of Pobycarbonate bowl/cover Opticat cover type outdoor Asymmetrical wide beam 90° x 136° c Optic type outdoor Asymmetrical wide beam 90° x 136° c Optic type outdoor Asymmetrical wide beam 90° x 136° c Optic type outdoor Asymmetrical wide beam 90° x 136° c Optic type outdoor Asymmetrical wide beam 90° x 136° c Opticat gover type outdoor Asymmetrical wide beam 90° x 136° c Opticat gover type outdoor Asymmetrical wide beam 90° x 136° c Opticat gover type outdoor Asymmetrical wide beam 90° x 136° c Opticat gover type outdoor Asymmetrical wide beam 90° x 136° c Opticat gover type outdoor Asymmetrical wide beam 90° x 136° c Opticat gover type outdoor Asymmetrical wide beam 90° x 136° c Opticat gover type outdoor Asymmetrical wide beam 90° x 136° c Opticat gover type outdoor Asymmetrical wide beam 90° x 136° c Opticat gover type outdoor Asymmetrical white beam 90° x 136° c Initial Performance (IEC Compliant) Luminous flux tolerance 4/7% Initial Performance (IEC Compliant) Luminous flux tolerance 4/7% Initial Corrolanticity (0.30°, 0.359) SDCM -5 Initial Performance (IEC Compliant) Oper Time Performance (IEC Compliant) Control gear failure rate at median useful 10° x Itific 100000 h Itime maintenance at median useful 10° x Itific 100000 h Itime maintenance at median useful 10° x Itific 100000 h Itime maintenance at median useful 10° x Itific 100000 h Itime maintenance at median useful 10° x Itific 100000 h Itime maintenance at median useful 10° x Itime 100000 h Itime maintenance at median useful 10° x Itime 100000 h Itime maintenance at median useful 10° x Itime 100000 h Itime maintenance at median useful 10° x Itime 100000 h Itime maintenance at median useful 10° x Itime 100000 h Itime	Standard tilt angle posttop	-	Effective projected area	0.23 m²
Approval and Application Ingress protection code IPG6 [Dust penetration-protected, let-proof] Ingress protection code IPG6 [Dust penetration penetratio	Standard tilt angle side entry	-	Dimensions (Height x Width x Depth)	450 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 Optical cover type Polycarbonate bowl/cover Polycarbonate bowl/cover Polycarbonate bowl/cover Opticat cover type Opticat cover type Polycarbonate bowl/cover Polycarbonate bowl/cover Polycarbonate bowl/cover Polycarbonate Dowl/cover Polycarbonate Dowl/cover Polycarbonate Dowl/cover Polycarbonate Polyc	Luminous Efficacy (rated) (Nom)	109 lm/W	Approval and Application	
Surge Protection (Common/Differential) Luminaire surge protection (EeV until 6 kV differential mode and 10 kV common mode Protection (ass IEC Safety class	Color rendering index (CRI)	≥70	Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Control and Dimming	Light source color	740 neutral white	Mech. impact protection code	IK08 [5 J vandal-protected]
Optic type outdoor	Optical cover type	Polycarbonate bowl/cover	Surge Protection (Common/Differential)	Luminaire surge protection level until 6 kV
Initial Performance (IEC Compliant) Luminous flux tolerance 1/-7%	Luminaire light beam spread	90° x 136°		differential mode and 10 kV common mode
Luminous flux tolerance	Optic type outdoor	Asymmetrical wide beam	Protection class IEC	Safety class I
Luminous flux tolerance				
Line Frequency 50 Hz Inrush current 30 A Power consumption tolerance 4/-10% Inrush time 16 ms Inrush time 1,314 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 Control interface DALI Constant light output No Mechanical and Housing Housing Material Polycarbonate Polycarbonate Fixation material Aluminum Housing Color Aluminum Initial chromaticity (0.367, 0.358) SDCM <5 Initial chromaticity (1.5% Initial chromaticity (1.5%) Initia chromaticity (1.5%) Initial chromaticity (1.5%) Initial chromaticity (1.5%) Initial chromaticity (1.5%) Initial chromaticity (1.5%) Initia chromaticity (1.5%) Initial chromaticity (1.5%) Initia chromaticity (1.5%) Initial chromaticity (1.5%) Initial chromatical (1.5%) Initial	Operating and Electrical		Initial Performance (IEC Compliant)
Inrush current 30 A Power consumption tolerance 4/-10% Inrush time 16 ms Init Color Rendering Index Tolerance 4/-2 Power Consumption 1.314 W	Input Voltage	230 V	Luminous flux tolerance	+/-7%
Init. Color Rendering Index Tolerance +/-2 Power Consumption 1,314 W Power Factor (Fraction) 0,95 Connection Push-in connector and pull relief Colle - Ilife 100000 h Itie 100000 h	Line Frequency	50 Hz	Initial chromaticity	(0.367, 0.358) SDCM <5
Power Consumption 1,314 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 Product Data Product Data Product name BVP525 1800/740 230V BV DX50 D9 T25 Full product name BVP525 1800/740 230V BV DX50 D9 T25 Full product code 871869911611800 Order code 912300023824 Numerator - Quantity Per Pack I EAN/UPC - Case 8718699116118 Numerator - Packs per outer box I EAN/UPC - Case 8718699116118	Inrush current	30 A	Power consumption tolerance	+/-10%
Power Factor (Fraction) 0.95 Over Time Performance (IEC Compliant)	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 life 100000 h Lumen maintenance at median useful life 100000 h Lumen maintenance at median useful 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 Driver/power unit/transformer Power supply unit with DALI interface external Control interface DALI Full product name BVP525 1800/740 230V BV DX50 D9 T25 Constant light output No 100 Full product code 87186991161800 Mechanical and Housing Housing Material Aluminum Meflector material Polycarbonate Optic material Polycarbonate Optic material Polycarbonate Optical cover material Aluminum Fixation material Aluminum Housing Color Aluminum Early UPC - Case 8718699116118	Power Consumption	1,314 W		
Life 10000 h Lumen maintenance at median useful L80	Power Factor (Fraction)	0.95	Over Time Performance (IEC Comp	liant)
Number of products on MCB of 16 A type B Lumen maintenance at median useful life* 100000 h Lumen maintenance at median useful life* 100000 h Application Conditions Performance ambient temperature Tq 25 °C Maximum dim level 10% Controls and Dimming Dimmable Yes Product Data Order product name BVP525 1800/740 230V BV DX50 D9 T25 external 100 Control interface DALI Constant light output No Mechanical and Housing Housing Material Aluminum Material Polycarbonate Optic material Polycarbonate Polycarbonate Polycarbonate Polycarbonate Aluminum Fixation material Aluminum EAN/UPC - Case 8718699116118 La0 La0 La0 La0 La0 La0 La0 La	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 Order product name 8VP525 1800/740 230V BV DX50 D9 T25 external 100 Control interface DALI Full product name 8VP525 1800/740 230V BV DX50 D9 T25 100 Full product code 871869911611800 Mechanical and Housing Housing Material Aluminum Material Nr. (12NC) 912300023824 Reflector material Polycarbonate EAN/UPC - Product/Case 8718699116118 Optical cover material Aluminum Housing Color Aluminum Application Conditions Performance ambient temperature Tq 25 °C Maximum dim level 10% Porformater Tq 25 °C Maximum dim level 10% Porfouct Data Order product name 8VP525 1800/740 230V BV DX50 D9 T25 100 Full product code 871869911611800 Order code 912300023824 Numerator - Quantity Per Pack 1 EAN/UPC - Case 8718699116118	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 Performance ambient temperature Tq 25 °C Maximum dim level 10% Product Data Order product name BVP525 1800/740 230V BV DX50 D9 T25 100 Full product name Product name BVP525 1800/740 230V BV DX50 D9 T25 100 Full product code 871869911611800 Order code 912300023824 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718699116118 Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116118	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 Performance ambient temperature Tq 25 °C Maximum dim level 10% Product Data Order product name BVP525 1800/740 230V BV DX50 D9 T25 100 Full product name Product name BVP525 1800/740 230V BV DX50 D9 T25 100 Full product code 871869911611800 Order code 912300023824 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718699116118 Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116118				
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 Reflector material Polycarbonate Optic material Polycarbonate Polycarbonate Housing Color Aluminum Maximum dim level 10% Product Data Product Data Dorder product name BVP525 1800/740 230V BV DX50 D9 T25 100 Full product name BVP525 1800/740 230V BV DX50 D9 T25 100 Full product code 871869911611800 Order code 912300023824 Material Nr. (12NC) 912300023824 Numerator - Quantity Per Pack 1 EAN/UPC - Product/Case 8718699116118 Numerator - Packs per outer box 1 EAN/UPC - Case 8718699116118	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 nameBVP525 1800/740 230V BV DX50 D9 T25 100Control interfaceDALIFull product nameBVP525 1800/740 230V BV DX50 D9 T25 100Constant light outputNo100Mechanical and HousingFull product code871869911611800Housing MaterialAluminumMaterial Nr. (12NC)912300023824Reflector materialPolycarbonateNumerator - Quantity Per Pack1Optic materialPolycarbonateEAN/UPC - Product/Case8718699116118Optical cover materialPolycarbonateNumerator - Packs per outer box1Fixation materialAluminumEAN/UPC - Case8718699116118Housing ColorAluminumEAN/UPC - Case8718699116118			Maximum dim level	10%
Driver/power unit/transformer Power supply unit with DALI interface external Control interface DALI Full product name BVP525 1800/740 230V BV DX50 D9 T25 100 Constant light output No Full product code 871869911611800 Mechanical and Housing Housing Material Aluminum Material Nr. (12NC) Polycarbonate Numerator - Quantity Per Pack Optic material Polycarbonate Numerator - Packs per outer box Fixation material Aluminum EAN/UPC - Case 8718699116118 BVP525 1800/740 230V BV DX50 D9 T25 100 BVP525 1800/740 230V BV DX50 D9 T25 100 BVP525 1800/740 230V BV DX50 D9 T25 100 Full product code 871869911611800 Polycarbonate Polycarbonate Numerator - Quantity Per Pack Fixation material Aluminum EAN/UPC - Case 8718699116118	Controls and Dimming			
External100Control interfaceDALIFull product nameBVP525 1800/740 230V BV DX50 D9 T25Constant light outputNo100Full product code871869911611800Mechanical and HousingOrder code912300023824Housing MaterialAluminumMaterial Nr. (12NC)912300023824Reflector materialPolycarbonateNumerator - Quantity Per Pack1Optic materialPolycarbonateEAN/UPC - Product/Case8718699116118Optical cover materialPolycarbonateNumerator - Packs per outer box1Fixation materialAluminumEAN/UPC - Case8718699116118Housing ColorAluminumEAN/UPC - Case8718699116118	Dimmable	Yes	Product Data	
Control interface DALI Full product name BVP525 1800/740 230V BV DX50 D9 T25 100 Full product code 871869911611800 Mechanical and Housing Housing Material Aluminum Material Nr. (12NC) Polycarbonate Optic material Polycarbonate Polycarbonate EAN/UPC - Product/Case 8718699116118 Polycarbonate Numerator - Packs per outer box 1 EAN/UPC - Case 8718699116118	Driver/power unit/transformer	Power supply unit with DALI interface	Order product name	BVP525 1800/740 230V BV DX50 D9 T25
Constant light outputNo100Mechanical and HousingFull product code871869911611800Housing MaterialAluminumMaterial Nr. (12NC)912300023824Reflector materialPolycarbonateNumerator - Quantity Per Pack1Optic materialPolycarbonateEAN/UPC - Product/Case8718699116118Optical cover materialPolycarbonateNumerator - Packs per outer box1Fixation materialAluminumEAN/UPC - Case8718699116118Housing ColorAluminum		external		100
Full product code871869911611800Mechanical and HousingHousing MaterialAluminumMaterial Nr. (12NC)912300023824Reflector materialPolycarbonateNumerator - Quantity Per Pack1Optic materialPolycarbonateEAN/UPC - Product/Case8718699116118Optical cover materialPolycarbonateNumerator - Packs per outer box1Fixation materialAluminumEAN/UPC - Case8718699116118Housing ColorAluminum	Control interface	DALI	Full product name	BVP525 1800/740 230V BV DX50 D9 T25
Mechanical and HousingHousing MaterialAluminumMaterial Nr. (12NC)912300023824Reflector materialPolycarbonateNumerator - Quantity Per Pack1Optic materialPolycarbonateEAN/UPC - Product/Case8718699116118Optical cover materialPolycarbonateNumerator - Packs per outer box1Fixation materialAluminumEAN/UPC - Case8718699116118Housing ColorAluminum	Constant light output	No		100
Housing Material Aluminum Material Nr. (12NC) 912300023824 Reflector material Polycarbonate Numerator - Quantity Per Pack 1 Optic material Polycarbonate EAN/UPC - Product/Case 8718699116118 Optical cover material Polycarbonate Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116118 Housing Color Aluminum			Full product code	871869911611800
Reflector material Polycarbonate Numerator - Quantity Per Pack 1 Optic material Polycarbonate EAN/UPC - Product/Case 8718699116118 Optical cover material Polycarbonate Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116118 Housing Color Aluminum	Mechanical and Housing		Order code	912300023824
Optic material Polycarbonate Optical cover material Polycarbonate Fixation material Aluminum Housing Color Aluminum EAN/UPC - Product/Case 8718699116118 EAN/UPC - Case 8718699116118	Housing Material	Aluminum	Material Nr. (12NC)	912300023824
Optical cover material Polycarbonate Numerator - Packs per outer box 1 Fixation material Aluminum EAN/UPC - Case 8718699116118 Housing Color Aluminum	Reflector material	Polycarbonate	Numerator - Quantity Per Pack	1
Fixation material Aluminum EAN/UPC - Case 8718699116118 Housing Color Aluminum	Optic material	Polycarbonate	EAN/UPC - Product/Case	8718699116118
Housing Color Aluminum	Optical cover material	Polycarbonate	Numerator - Packs per outer box	1
	Fixation material	Aluminum	EAN/UPC - Case	8718699116118
Mounting device Mounting bracket adjustable	Housing Color	Aluminum		
	Mounting device	Mounting bracket adjustable		

OptiVision LED gen2

Dimensional drawing





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