



# OptiVision LED gen2 – a new era in smart area and recreational sports lighting

## OptiVision LED gen2

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.

### Benefits

- Innovative floodlight with dedicated optics that ensure maximum optical efficiency and enable accurate light distribution with a minimum of spill light
- Advanced Philips system controls and sensors enable additional energy savings (up to 65%) in area lighting applications
- Minimized maintenance costs thanks to long-lasting LEDs and the luminaire's thermal management system, as well as its reliable IP66 driver box

## Features

- Precisely controlled light distribution – symmetrical and asymmetrical – limits light pollution
- Light can be dimmed/controlled according to actual need, significantly reducing energy costs
- Pre-programmed basic plug & play control solutions with integrated driver
- Fully controllable when combined with the latest lighting control systems to enable maximum energy savings
- Single-unit floodlight version (HGB) with integrated driver box for ease of installation and lower installation cost

## Application

- Logistics areas
- Parking areas
- Industrial areas
- Recreational sports pitch lighting

## Specifications

<b>Type</b>	BVP525 BV (floodlight, 3-light module version with separate driver box)
	BVP525 HGB (floodlight, 3-light module version with integral driver box)
	BVP515 BV (floodlight, 2-light module version with separate driver box)
	BVP515 HGB (floodlight, 2-light module version with integral driver box)
	EVP500 (external driver box, IP66, DALI)
<b>Light source</b>	Integral LED-module
<b>Power</b>	Up to 1471 W (BVP525)
	Up to 981 W (BVP515)
<b>Beam angle</b>	4 rotational beam angles from 2 x 11° to 2 x 19°
	5 asymmetrical beam angles from narrow to extra narrow
<b>Luminous flux</b>	Up to 202,000 lm (BVP525; 5700 K)
	Up to 194,000 lm (BVP525; 4000 K)
	Up to 134,000 lm (BVP515; 5700 K)
	Up to 129,000 lm (BVP515; 4000 K)
<b>Luminaire efficacy</b>	Up to 119 lm/W
<b>Correlated Color</b>	5700 K (+/-400 K)
<b>Temperature</b>	4000 K (+/-400 K)
<b>Color Rendering Index</b>	Min: 70
<b>TLCI per color code</b>	49 (757) / 48 (740)
<b>SDCM (MacAdam ellipse)</b>	Max 5
<b>Maintenance of lumen output - L80B10</b>	Up to 100,000 hours at released outdoor/indoor ambient temperatures
<b>Driver failure rate</b>	0.5% per 5000 hours
<b>Operating temperature range</b>	-40 up to +45 °C (depends on floodlight's Ta dependent version)
<b>Driver</b>	Separate (for floodlights BVP525/515 BV version)
	Integrated (for floodlights BVP525/515 HGB version)
<b>Mains voltage</b>	Optional: 220 V / 50-60 Hz or 230 V / 50-60 Hz or 380-400 V / 50 Hz

<b>Inrush current</b>	18 A/160 µsec at 230 V mains
	30 A/160 µsec at 400 V mains
<b>Controls system input</b>	DALI
<b>Dimming</b>	Integral DynaDimmer
<b>Optic</b>	Asymmetrical (narrow, medium or wide beam)
	Symmetrical (rotational)
<b>Optical cover</b>	Polycarbonate cover
<b>Material</b>	Housing and mounting bracket: molded aluminum
	Heat sink: aluminum
	Electrical connection box: molded aluminum
	Optic lens and cover: UV protected polycarbonate
<b>Color</b>	Driver box: molded aluminum
	Housing and mounting bracket: raw aluminum
	Heat sink: black
	End caps: grey
<b>Connection</b>	Driver box: painted in raw-aluminum color
	Luminaire's electrical connection: screw-less terminals for wires up to 2.5 mm²
<b>Maintenance</b>	Driver box connection: screw-less terminals for mains input (wires up to 4 mm²) and for output to the luminaire electrical connection box (wires up to 2.5 mm²) and for DALI control input (wires up to 2.5 mm²)
	No internal cleaning required
<b>Installation (luminaire)</b>	On roof or mast head frame or indoor catwalk
	U-shaped mounting bracket, with foot-print suitable for 3-point fixation by means of M20 bolts
	Standing-up or hanging-down mounting
	Max adjustment from the horizontal: -180 to +180°
	Max vertical aiming: -90 to +90° (not for uplighting)
	Luminaire windage area (SCx) at 15° tilt: 0.18 m2 (BVP515); 0.23 m2 (BVP525)
	Luminaire windage area (SCx) at 40° tilt: 0.24 m2 (BVP515); 0.32 m2 (BVP525)

Installation (driver box)	Indoor/outdoor open air without need of cabinet or inside electrical cabinet (IP54)/room or inside mast (min. entrance door opening w=125 mm x h=600 mm)	Accessories	External zero candela louvre at 90° for asymmetrical A type optics (ZVP520 L-A90 and ZVP500 L-A90)
	Either pre-fitted on the luminaire (floodlight HGB version) or remotely at max 200 m distance to luminaire		External spill-light control louvre for symmetrical S type optics (ZVP420 L and ZVP500 L)
	Fixation on flat surface by means 4 standard bolts and nuts through the key slot holes		Precision aiming device for luminaires with symmetrical S type optics (ZVP420 PAD A0)
	Universal fixation position (cable glands never upward for outdoor and inside mast use)		Precision aiming device for luminaires with asymmetrical A type of optics (ZVP520 PAD A30)
Cable gland	M25 for input of electrical connection box of luminaire	Remarks	Driver box EVP500 is ordered together with floodlight (BVP515/525) either in pre-fitted (HGB) or separate (BV) version. Floodlight and driver box are delivered inside the same packaging as a complete set. Driver box of BV version contains a suspension kit with its fixing parts, if needed.
	M25 for mains input of driver box (no through-wiring)		
	M25 for luminaire output of driver box		
	M20 for DALI control input of driver box (no through-wiring)		

Versions



ArenaVision LED gen2 BVP525 flood-lighting luminaire, 3-light module version with separate driver box



ArenaVision LED gen2 BVP525 flood-lighting luminaire, 3-light module version with integral driver box



ArenaVision LED gen2 BVP515 flood-lighting luminaire, 2-light module version with separate driver box



ArenaVision LED gen2 BVP515 flood-lighting luminaire, 2-light module version with integral driver box

Product details



Front view of BVP525 floodlight (BV: version with external driver box)



Rear view of BVP525 floodlight (BV: version with external driver box)

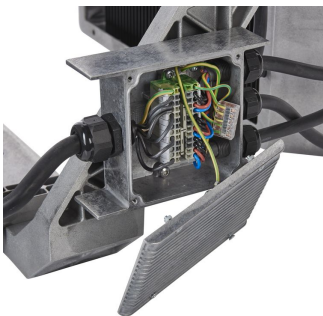
Product details



Left side view of BVP525 floodlight  
(BV: version with external driver box)



Rear view of BVP525 floodlight (BV:  
version with external driver box)



Electrical connection box of floodlight  
contains cable glands and push-in  
terminals enabling electrical  
connection to driver box.



The end-caps can be easily opened to  
access the bolts to aim the floodlight;  
the slot-hole in the bracket facilitates  
flexible installation.



Electrical compartment of driver box  
contains cable glands for cable entries  
and push-in terminals for mains and  
control inputs.



Front view of BVP525 floodlight (HGB:  
version with driver box attached)



Rear view of BVP525 floodlight (HGB:  
version with driver box attached)



Left side view of BVP525 floodlight  
(HGB: version with driver box  
attached)

Product details



Rear view of BVP525 floodlight (HGB:  
version with driver box attached)



Rear view of BVP515 floodlight (BV:  
version with external driver box)



Left side view of BVP515 floodlight  
(BV: version with external driver box)



Rear view of BVP515 floodlight (BV:  
version with external driver box)



Front view of BVP515 floodlight (BV:  
version with external driver box)



Rear view of BVP515 floodlight (HGB:  
version with driver box attached)



Left side view of BVP515 floodlight  
(HGB: version with driver box  
attached)



Rear view of BVP515 floodlight (HGB:  
version with driver box attached)

Accessories



Ordercode 910503910039



Ordercode 910503910040



Louver

Ordercode 912300022588



Ordercode 912300022867



Ordercode 912300022989



## Application Conditions

Maximum dim level	10%
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## Approval and Application

Mech. impact protection code	IK08
Surge Protection (Common/Differential)	Luminaire surge protection level until 6 kV differential mode and 10 kV common mode

## Controls and Dimming

Dimmable	Yes
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## General Information

Luminaire light beam spread	90° x 136°
CE mark	CE mark
Optical cover/lens type	Polycarbonate bowl/cover
Driver included	Yes
ENEC mark	ENEC mark
Flammability mark	-
Lamp family code	LED-HB
Light source replaceable	Yes
Number of gear units	1 unit
Optic type	Asymmetrical wide beam

## Initial Performance (IEC Compliant)

Init. Color Rendering Index	≥70
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## Light Technical

Standard tilt angle side entry	-
Standard tilt angle posttop	-
Upward light output ratio	0

## Mechanical and Housing

Color	Aluminum
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## Over Time Performance (IEC Compliant)

Driver failure rate at 5000 h	0.5 %
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## General Information

Order Code	Full Product Name	Light source color	Product Family Code
912300023822	BVP525 1860/757 230V BV DX50 D9 T25 100	757 cool white	BVP525
912300023824	BVP525 1800/740 230V BV DX50 D9 T25 100	740 neutral white	BVP525
912300023823	BVP525 1860/757 230V HGB DX50 D9 T25 100	757 cool white	BVP525
912300023825	BVP525 1800/740 230V HGB DX50 D9 T25 100	740 neutral white	BVP525
912300023826	BVP515 1240/757 230V BV DX50 D9 T25 100	757 cool white	BVP515
912300023828	BVP515 1200/740 230V BV DX50 D9 T25 100	740 neutral white	BVP515
912300023827	BVP515 1240/757 230V HGB DX50 D9 T25 100	757 cool white	BVP515
912300023829	BVP515 1200/740 230V HGB DX50 D9 T25 100	740 neutral white	BVP515

## Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Color Temperature	Initial luminous flux	Order Code	Full Product Name	Init. Corr. Color Temperature	Initial luminous flux
912300023822	BVP525 1860/757 230V BV DX50 D9 T25 100	5700 K	186000 lm	912300023825	BVP525 1800/740 230V HGB DX50 D9 T25 100	4000 K	180000 lm
912300023824	BVP525 1800/740 230V BV DX50 D9 T25 100	4000 K	180000 lm	912300023826	BVP515 1240/757 230V BV DX50 D9 T25 100	5700 K	124000 lm
912300023823	BVP525 1860/757 230V HGB DX50 D9 T25 100	5700 K	186000 lm	912300023828	BVP515 1200/740 230V BV DX50 D9 T25 100	4000 K	120000 lm

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Order Code	Full Product Name	Init. Corr. Color Temperature	Initial luminous flux
912300023827	BVP515 1240/757 230V HGB DX50 D9 T25 100	5700 K	124000 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Initial luminous flux
912300023829	BVP515 1200/740 230V HGB DX50 D9 T25 100	4000 K	120000 lm

