



OptiVision LED – a new age in smart area and recreational sports lighting

OptiVision LED

Philips OptiVision LED floodlighting system – the latest in high-efficiency LED technology – provides a complete lighting solution for the simplest through to the most complex area and recreational sports lighting applications. The specially engineered OptiVision LED luminaires come with a full range of options to meet the highest performance standards, to provide outstanding light quality, and to guarantee safety and visual comfort. They deliver maximum light output while ensuring effective thermal management in order to maximize lifetime and minimize maintenance costs. In area applications, the OptiVision LED system offers new possibilities to reduce energy consumption and increase flexibility (instant start, programmable lighting levels based on actual need) when used in conjunction with Philips' advanced system controls and sensors. The OptiVision LED luminaires are also compatible with other external control systems via DALI protocol. The range includes versions with three/two LED light modules which function with an external driver box, as well a compact version with two LED light modules and an integral driver unit for easy installation and lower installation costs.



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Benefits

- Excellent control of spill light thanks to highly efficient optical system
- Advanced Philips system controls and sensors enable additional energy savings (up to 65%) in area lighting applications

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

Application

- Logistics areas
- Parking areas
- Industrial areas

- Minimized maintenance costs thanks to long-lasting LEDs and the luminaire's thermal management system

- Fully controllable when combined with the latest lighting control systems to enable maximum energy savings
- Compact floodlight version with integral driver unit (BVP500) for ease of installation and lower installation costs

- Recreational sports pitch lighting

Specifications

• Type	BVP520 (floodlight luminaire; 3-light module version) BVP510 (floodlight luminaire; 2-light module version) BVP500 (floodlight luminaire; 2-light module with integral driver unit version) EVP520 (external driver box) EVP510 (external driver box)	• Luminaire efficacy	GreenLine (40,000 hours lifetime): up to 120 lm/W EconomyLine (20,000 hours lifetime): up to 105 lm/W EconomyLine (10,000 hours lifetime): up to 98 lm/W
• Light source	Integral LED-module	• Correlated Color Temperature	5700 K (+/-400 K) 4000 K (+/-400 K)
• Power	BVP500/510: - GreenLine (40,000 hours lifetime): 338 to 917 W - EconomyLine (20,000 hours lifetime): 479 to 917 W - EconomyLine (10,000 hours lifetime): 619 to 658 W BVP520: - GreenLine (40,000 hours lifetime): 507 to 1375 W - EconomyLine (20,000 hours lifetime): 719 to 1375 W - EconomyLine (10,000 hours lifetime): 929 to 987 W	• Color Rendering Index	> 65
• Beam angle	4 rotational beam angles from 2 x 11° to 2 x 19° 4 asymmetrical beam angles from narrow to extra narrow	• Maintenance of lumen output - L80F10	40,000 hours (GreenLine); 20,000 and 10,000 hours (EconomyLine) at released outdoor/indoor ambient temperatures
• Luminous flux	BVP500/510: - GreenLine (40,000 hours lifetime): 37,000 to 80,000 lm - EconomyLine (20,000 hours lifetime): 47,000 to 80,000 lm - EconomyLine (10,000 hours lifetime): 57,000 to 64,000 lm BVP520: - GreenLine (40,000 hours lifetime): 55,000 to 121,000 lm - EconomyLine (20,000 hours lifetime): 70,000 to 121,000 lm - EconomyLine (10,000 hours lifetime): 85,000 to 96,000 lm	• Operating temperature range	Luminaire: - Outdoor: -30 to +45 °C - Indoor (ceiling): to +45 °C Driver box IP20: - -30 to +45 °C Driver box IP66: - Outdoor: -30 to +45 °C - Indoor: to +35 °C
		• Driver	Separate (BVP520/510) Integrated (BVP500)
		• Mains voltage	110-277 V / 50-60 Hz 347-480 V / 50-60 Hz
		• Inrush current	30 A/kW at 200 µs
		• Controls system input	DALI
		• Dimming	Integral DynaDimmer
		• Optic	Asymmetrical (narrow, medium or wide beam) Symmetrical (rotational)
		• Optical cover	Polycarbonate cover

• Material	Housing and mounting bracket: molded aluminum Heat sink: aluminum Electrical connection box: molded plastic Optic lens and cover: UV protected polycarbonate Driver box IP20: sheet aluminum Driver box IP66: molded aluminum	• Installation (driver box)	IP20: indoor use, installed inside electrical cabinet (not suitable for inside mast) IP66: outdoor use Nominal 7% and maximum 9% of watt losses can be taking into account to control the temperature where the IP20 driver box to be installed Distance to luminaire: either close at 1 m or remotely at max 200 m (IP20) and 25 m (IP66) Fixation by means of 4 standard bolts and nuts through holes
• Color	Housing and mounting bracket: raw aluminum Heat sink: black End caps: grey Electrical connection box: grey Driver box IP20: raw aluminum Driver box IP66: grey	• Cable gland	6 x M20 for electrical connection box of luminaire (only for IP20 external driver box) 1 x M25 for mains input of IP66 external driver box
• Connection	Push-in connector with 3 poles	• Accessories	External zero candela louvre at 90° for asymmetrical A type optics External spill-light control louvre for symmetrical S type optics (ZVP420 L A90) Precision aiming device for luminaires with symmetrical S type optics (ZVP420 PAD A0) Precision aiming device for luminaires with asymmetrical A type of optics (ZVP520 PAD A30) Extension cables of 10, 15, 25 m for IP66 driver box connection (ZVP420 C10K / ZVP420 C15K / ZVP420 C25K)
• Maintenance	No internal cleaning required	• Remarks	External driver box (EVP520/510) either in IP20 and IP66 to be ordered together with the floodlight (BVP520/510) BVP500 type luminaires are equipped with integral drivers so no need to order an external driver box
• Installation (luminaire)	On roof or mast head frame or indoor catwalk U-shaped mounting bracket, fixation with standard bolts and nuts Standing-up or hanging-down mounting Aiming memory to safeguard the original aiming position of luminaire after servicing, if required Each light-module of the luminaire (except BVP500) is equipped with a cable of +/-10 cm with a quick connector plug at the end enabling easy plug-in of 3 cables of external driver box Electrical connection box (suitable for IP20 external driver box only) can be mounted either side of the mounting bracket of luminaire Max adjustment from the horizontal: -180 to +180° Max vertical aiming: -90 to +90° with protractor scale with 5° intervals Luminaire windage area (SCx) at 15° tilt: 0.23 m² (BVP520) Luminaire windage area (SCx) at 40° tilt: 0.32 m² (BVP520)		

Related products



OptiVision LED BVP520 flood-lighting luminaire



OptiVision LED BVP500 flood-lighting luminaire

Related products

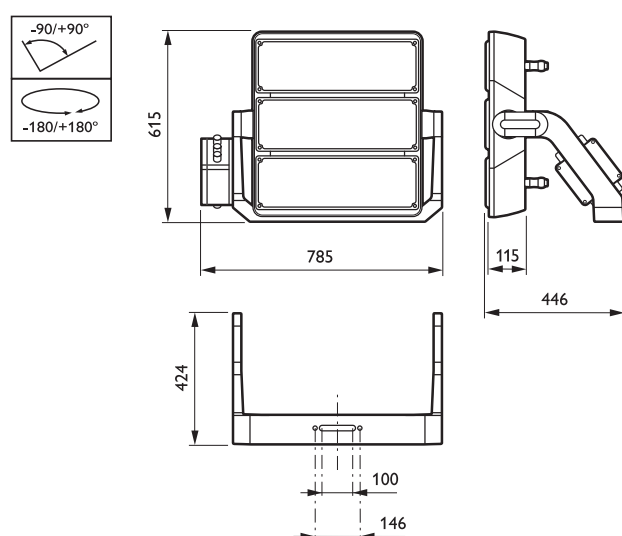


OptiVision LED EVP520/510 external driver box (IP20)

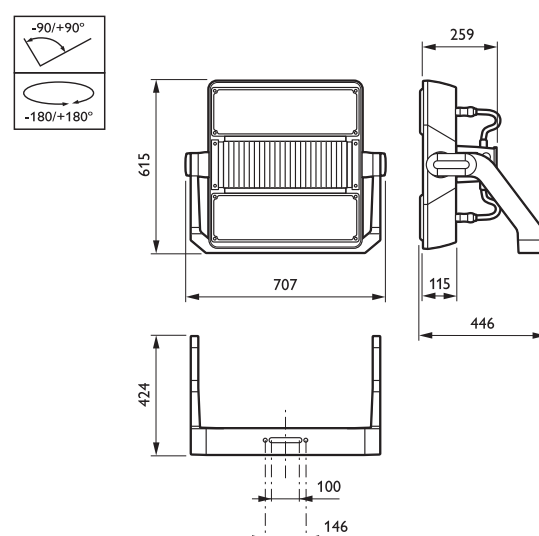


OptiVision LED EVP520/510 external driver box (IP66)

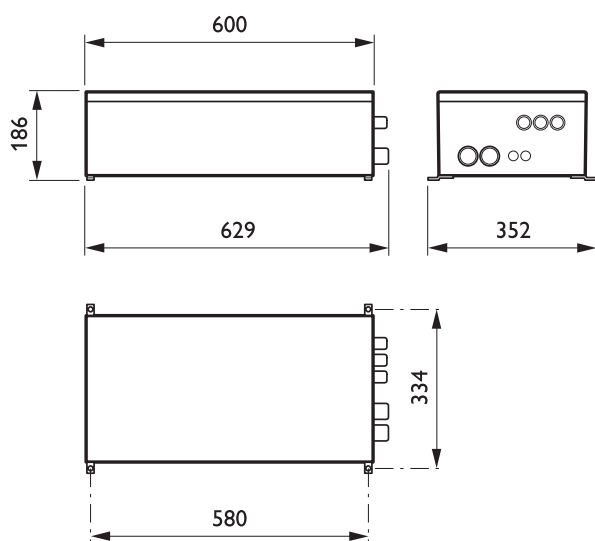
Dimensional drawing



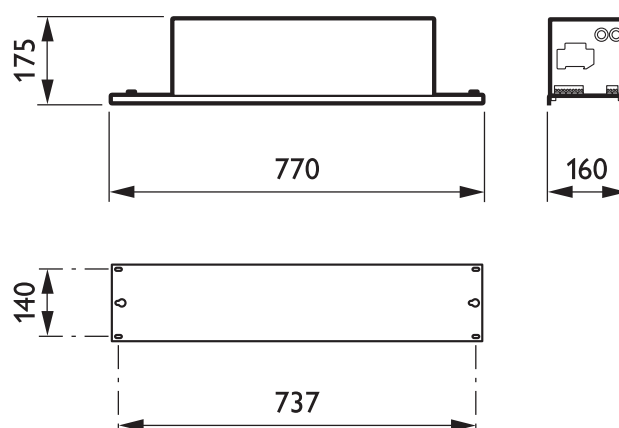
BVP520 GRN 121K/757 A-WB T20



BVP500 GRN 80K/757 277V A-WB T20 LO



EVP520 GRN 121K/757 277V IP66 T20



EVP520 GRN 121K/757 277V IP20 T20

Product details



Rear view of BVP520 floodlight with heat sink for thermal management



Side view of BVP520 floodlight, right



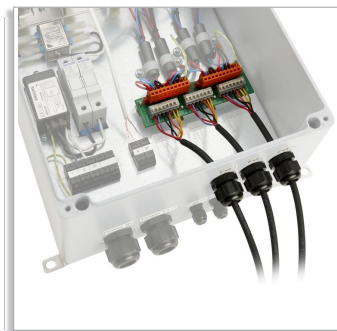
Side view of BVP520 floodlight, left



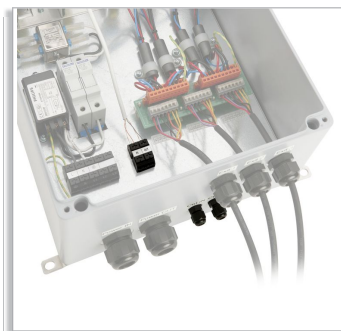
Rear view of BVP520 floodlight. Each light module is equipped with a ~10 cm cable with a quick connector plug at the end, making it easy to plug in the three cables from the external driver box.



Floodlight with light module built-in, asymmetrical optic and integrated spill-light control louver



The IP66 version of the EVP520/510 driver box is equipped with three cables of 2 m, with a quick connector plug at the end of each cable making it easy to plug the cables into the luminaire's light modules (extension cables equipped with a quick connector plug at both ends are available in pre-defined lengths of 10, 15 or 25 m and can be ordered separately).



The system-enabled version of driver boxes are equipped with connectors enabling DALI interface.



Rear view of BVP500 floodlight with heat sink for thermal management



Side view of BVP500 floodlight, right



Side view of BVP500 floodlight, left

Product details



Rear view of BVP500 floodlight with two light modules and integrated driver box in the middle

General information (1/2)

Order code	Product family code	Lamp family code	Light source color	Light source replaceable	Driver included	Mech. impact protection code	Optic type	Optical element	Optical cover/lens type	Coating	Dimmable
912300022850	BVP520	GRN	757	true	false	IK08	A-WB	LO	PC	No	Yes
912300022864	BVP500	GRN	757	true	false	IK08	A-WB	LO	PC	No	Yes
912300022851	EVP520	GRN	757	-	-	IK00	-	-	-	-	-
912300022858	EVP510	GRN	757	-	-	IK00	-	-	-	-	-
912300022854	EVP520	GRN	757	-	-	IK08	-	-	-	-	-
912300022861	EVP510	GRN	757	-	-	IK08	-	-	-	-	-

General information (2/2)

Order code	Product family code	CE mark	ENEC mark	Glare shielding accessories
912300022850	BVP520	CE	ENEC	No
912300022864	BVP500	CE	ENEC	No
912300022851	EVP520	CE	ENEC	-
912300022858	EVP510	CE	ENEC	-
912300022854	EVP520	CE	ENEC	-
912300022861	EVP510	CE	ENEC	-

Light technical

Order code	Product family code	Standard tilt angle posttop	Standard tilt angle side entry	Glare shielding accessories	Light source flux
912300022850	BVP520	0	0	No	121K
912300022864	BVP500	0	0	No	80K
912300022851	EVP520	-	-	-	121K
912300022858	EVP510	-	-	-	80K
912300022854	EVP520	-	-	-	121K
912300022861	EVP510	-	-	-	80K

Accessories



ZVP420 PAD A0

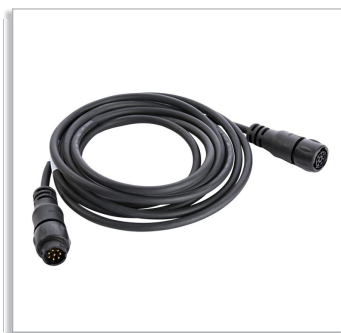
Precision aiming device



ZVP520 PAD A30

Precision aiming device for luminaires with symmetrical optics

Accessories

**ZVP420 C10K**

Extension cable for connecting the EVP420 driver box (IP66) to the light module of the BVP420 floodlight – available in 10, 15 and 25 m lengths

**ZVP420 C15K**

Extension cable for connecting the EVP420 driver box (IP66) to the light module of the BVP420 floodlight – available in 10, 15 and 25 m lengths

**ZVP520 L-A90**

External zero candela louver for asymmetrical optics, 90°

Accessories

Order code	Product family code	Description
910503910039	ZVP420 PAD A0	Precision aiming device
912300022589	ZVP420 C10K	Cable 10 m
912300022590	ZVP420 C15K	Cable 15 m
912300022867	ZVP520 L-A90	Louver with cut-off angle of 90°

Order code	Product family code	Description
910503910040	ZVP520 PAD A30	Precision aiming device



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