PHILIPS

Lighting



ArenaVision LED gen3 – Revolutionising the pitch-lighting experience

ArenaVision LED gen3

The Philips ArenaVision LED floodlighting system is an innovative LED pitch-lighting solution supporting the latest TV broadcasting standards. Designed exclusively for sports and multi-purpose venues, ArenaVision LED offers outstanding light quality, effective thermal management and long lifetime. When combined with control applications, such as the Interact Sports lighting management system, ArenaVision LED can simplify the delivery of the right illumination by scheduling or through real-time adjustments and can be used to create customised light shows before, during and after the main event. To ensure optimised use for both indoor and outdoor applications, the floodlight range includes two single piece pressure die cast housing versions, hosting 2 and 3 LED engines respectively. These versions also function with an external driver box – separate for use at a distance from the floodlight (BV version), or pre-fixed onto the mounting bracket of the floodlight (HGB version). This external driver box ensures ease of installation and lower initial cost.

Benefits

- Maximum design flexibility to fit different stadium architectures and high lighting quality – compliant with international broadcasting standards for any type of sport
- While delivering maximum light output. the floodlight has an excellent thermal management system, which in combination with its low weight and IP66 rating helps maximise lifetime and minimise maintenance costs for both newly built and retrofitted installations
- The single high-power IP66-rated DMX driver enables ArenaVision LED to be connected to the Interact Sports lighting management system, thereby enabling remote light management and the creation of dynamic light shows.
- Equipped with a service tag, a QR-based identification system that makes each luminaire uniquely identifiable and provides maintenance, installation and spare part information

Features

- Single piece pressure die cast housing, with a protection level of IP66 against dust and water
- Wide range of ambient temperature tolerance making it suitable for a variety of sports applications
- Wide range of asymmetrical and symmetrical optics ensuring low glare and best-in-class lighting uniformity, exceeding the requirements of all types of sports lighting level standards
- Option to add additional accessories to achieve best-in-class glare and up-light control
- Programmable DMX Driver to enable programming and integration with entertainment lighting fixtures and other Interact Sports applications

Application

- Outdoor arenas, stadiums and racing tracks (Cricket, Football, Rugby, Tennis, Hockey, Golf, Ice skating, Horse racing, F1 racing, Athletics, etc.)
- Indoor sports arenas and halls (Swimming pools, Velodromes, Basketball, Ice hockey, etc.)
- Multiple and multipurpose sports facilities and arenas

Specifications

Beam spread luminaire	12°
Main colour of the luminaire	Aluminum
Connection	Connection unit 5-pole (CU5)
Dimming	No, yes
Driver	Power supply unit with DMX interface (PSDMX)
	Power supply unit (PSU)
Initial correlated colour temperature	5700 K

Initial luminous flux	92210, 100060, 113352, 138246, 150014, 169943 lm
Input frequency	50 to 60 Hz
Input voltage	230 to 400 V
Inrush current (A)	20 A
Material	Housing: aluminum
Type	BVP417
	BVP427

Versions






Product details



Side View of BVP427 floodlight
(BV : With External Driver Box)



Rear View of BVP427 floodlight
(BV : With External Driver Box)



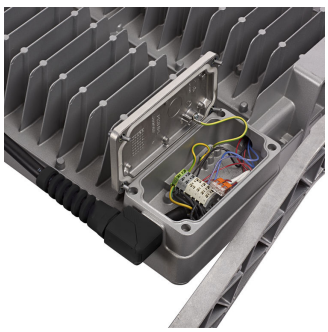
Front View of BVP427 floodlight



Rear View of BVP427 floodlight
(HGB : With attached Driver Box)



Access Bolt to AIM the floodlight easily



Electrical Connection box of floodlight with cable gland and push-in terminals enabling electrical connection to driver box

Product details



Side View of BVP427 floodlight
(HGB : With attached Driver Box)

Approval and Application	
Mech. impact protection code	IK08
Surge Protection (Common/ Differential)	Surge protection level up to 10 kV differential mode

General Information	
Luminaire light beam spread	12°
CE mark	CE mark
Optical cover/lens type	PCC
Driver included	Yes
Flammability mark	F
Light source replaceable	Yes
Number of gear units	1 unit
Optic type	Symmetrical

Initial Performance (IEC Compliant)	
Init. Corr. Colour Temperature	5700 K

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

Mechanical and Housing	
Colour	Aluminum

Application Conditions

Order Code	Full Product Name	Maximum dim level
86725600	BVP427 1800/957 PSU 230-400V BV S2 T25	-
86727000	BVP427 1950/857 PSU 230-400V BV S2 T25	-
86731700	BVP427 1800/957 PSDMX 230-400V BV S2 D25	10%
86733100	BVP427 1950/857 PSDMX 230-400V BV S2 D25	10%
86735500	BVP427 2210/757 PSDMX 230-400V BV S2 D25	10%
86726300	BVP427 1800/957 PSU 230-400V HGB S2 T25	-
86728700	BVP427 1950/857 PSU 230-400V HGB S2 T25	-
86732400	BVP427 1800/957 PSDMX 230-400V HGB S2 D2	10%
86734800	BVP427 1950/857 PSDMX 230-400V HGB S2 D2	10%
86736200	BVP427 2210/757 PSDMX 230-400V HGB S2 D2	10%
86729400	BVP417 1300/857 PSU 230-400V BV S2 T25	-
86737900	BVP417 1200/957 PSDMX 230-400V BV S2 D25	10%
86739300	BVP417 1300/857 PSDMX 230-400V BV S2 D25	10%
86741600	BVP417 1470/757 PSDMX 230-400V BV S2 D25	10%
86730000	BVP417 1300/857 PSU 230-400V HGB S2 T25	-
86738600	BVP417 1200/957 PSDMX 230-400V HGB S2 D2	10%
86740900	BVP417 1300/857 PSDMX 230-400V HGB S2 D2	10%
86742300	BVP417 1470/757 PSDMX 230-400V HGB S2 D2	10%

Controls and Dimming

Order Code	Full Product Name	Dimmable
86725600	BVP427 1800/957 PSU 230-400V BV S2 T25	No
86727000	BVP427 1950/857 PSU 230-400V BV S2 T25	No
86731700	BVP427 1800/957 PSDMX 230-400V BV S2 D25	Yes
86733100	BVP427 1950/857 PSDMX 230-400V BV S2 D25	Yes
86735500	BVP427 2210/757 PSDMX 230-400V BV S2 D25	Yes
86726300	BVP427 1800/957 PSU 230-400V HGB S2 T25	No
86728700	BVP427 1950/857 PSU 230-400V HGB S2 T25	No
86732400	BVP427 1800/957 PSDMX 230-400V HGB S2 D2	Yes
86734800	BVP427 1950/857 PSDMX 230-400V HGB S2 D2	Yes

Order Code	Full Product Name	Dimmable
86736200	BVP427 2210/757 PSDMX 230-400V HGB S2 D2	Yes
86729400	BVP417 1300/857 PSU 230-400V BV S2 T25	No
86737900	BVP417 1200/957 PSDMX 230-400V BV S2 D25	Yes
86739300	BVP417 1300/857 PSDMX 230-400V BV S2 D25	Yes
86741600	BVP417 1470/757 PSDMX 230-400V BV S2 D25	Yes
86730000	BVP417 1300/857 PSU 230-400V HGB S2 T25	No
86738600	BVP417 1200/957 PSDMX 230-400V HGB S2 D2	Yes
86740900	BVP417 1300/857 PSDMX 230-400V HGB S2 D2	Yes
86742300	BVP417 1470/757 PSDMX 230-400V HGB S2 D2	Yes

General Information

Order Code	Full Product Name	Light source colour	Lamp family code	Product Family Code
86725600	BVP427 1800/957 PSU 230-400V BV S2 T25	957 cool white	LED1800	BVP427
86727000	BVP427 1950/857 PSU 230-400V BV S2 T25	857 daylight	LED1950	BVP427
86731700	BVP427 1800/957 PSDMX 230-400V BV S2 D25	957 cool white	LED1800	BVP427
86733100	BVP427 1950/857 PSDMX 230-400V BV S2 D25	857 daylight	LED1950	BVP427
86735500	BVP427 2210/757 PSDMX 230-400V BV S2 D25	757 cool white	LED2200	BVP427
86726300	BVP427 1800/957 PSU 230-400V HGB S2 T25	957 cool white	LED1800	BVP427
86728700	BVP427 1950/857 PSU 230-400V HGB S2 T25	857 daylight	LED1950	BVP427
86732400	BVP427 1800/957 PSDMX 230-400V HGB S2 D2	957 cool white	LED1800	BVP427
86734800	BVP427 1950/857 PSDMX 230-400V HGB S2 D2	857 daylight	LED1950	BVP427

Order Code	Full Product Name	Light source colour	Lamp family code	Product Family Code
86736200	BVP427 2210/757 PSDMX 230-400V HGB S2 D2	757 cool white	LED2200	BVP427
86729400	BVP417 1300/857 PSU 230-400V BV S2 T25	857 daylight	LED1300	BVP417
86737900	BVP417 1200/957 PSDMX 230-400V BV S2 D25	957 cool white	LED1200	BVP417
86739300	BVP417 1300/857 PSDMX 230-400V BV S2 D25	857 daylight	LED1300	BVP417
86741600	BVP417 1470/757 PSDMX 230-400V BV S2 D25	757 cool white	LED1470	BVP417
86730000	BVP417 1300/857 PSU 230-400V HGB S2 T25	857 daylight	LED1300	BVP417
86738600	BVP417 1200/957 PSDMX 230-400V HGB S2 D2	957 cool white	LED1200	BVP417
86740900	BVP417 1300/857 PSDMX 230-400V HGB S2 D2	857 daylight	LED1300	BVP417
86742300	BVP417 1470/757 PSDMX 230-400V HGB S2 D2	757 cool white	LED1470	BVP417

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Colour Rendering Index	Initial luminous flux
86725600	BVP427 1800/957 PSU 230-400V BV S2 T25	>85	138246 lm
86727000	BVP427 1950/857 PSU 230-400V BV S2 T25	>80	150014 lm
86731700	BVP427 1800/957 PSDMX 230-400V BV S2 D25	>85	138246 lm
86733100	BVP427 1950/857 PSDMX 230-400V BV S2 D25	>80	150014 lm
86735500	BVP427 2210/757 PSDMX 230-400V BV S2 D25	>70	169943 lm
86726300	BVP427 1800/957 PSU 230-400V HGB S2 T25	>85	138246 lm
86728700	BVP427 1950/857 PSU 230-400V HGB S2 T25	>80	150014 lm
86732400	BVP427 1800/957 PSDMX 230-400V HGB S2 D2	>85	138246 lm
86734800	BVP427 1950/857 PSDMX 230-400V HGB S2 D2	>80	150014 lm

Order Code	Full Product Name	Init. Colour Rendering Index	Initial luminous flux
86736200	BVP427 2210/757 PSDMX 230-400V HGB S2 D2	>70	169943 lm
86729400	BVP417 1300/857 PSU 230-400V BV S2 T25	>80	100060 lm
86737900	BVP417 1200/957 PSDMX 230-400V BV S2 D25	>85	92210 lm
86739300	BVP417 1300/857 PSDMX 230-400V BV S2 D25	>80	100060 lm
86741600	BVP417 1470/757 PSDMX 230-400V BV S2 D25	>70	113352 lm
86730000	BVP417 1300/857 PSU 230-400V HGB S2 T25	>80	100060 lm
86738600	BVP417 1200/957 PSDMX 230-400V HGB S2 D2	>85	92210 lm
86740900	BVP417 1300/857 PSDMX 230-400V HGB S2 D2	>80	100060 lm
86742300	BVP417 1470/757 PSDMX 230-400V HGB S2 D2	>70	113352 lm



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