ArenaVision LED gen2

BVP415 1340/757 PSDMX 230V BV S2 T25

ArenaVision LED gen2, 757 cool white

The Philips ArenaVision LED gen2 floodlighting system is an innovative LED pitch-lighting solution that supports the latest TV broadcasting standards and features a control platform. Designed exclusively for sports and multifunctional lighting applications, ArenaVision LED gen2 luminaires offer outstanding light quality, effective thermal management and long lifetime. The floodlight range includes versions with three and two LED light modules, which 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) for ease of installation and lower initial cost.

Product data

General Information

Lamp family code	LED-HB [LED High Brightness]
Light source replaceable	Yes
Number of gear units	Unit
Driver included	Yes
Remarks	*- According to the Lighting Europe guidance paper 'Evaluating performance of LED based luminaires – January 2018': statistically there is no relevant difference in lumen maintenance between the B50 and, for example, the 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	BVP415 [ArenaVision LED gen2]
Lighting Technology	LED
Value ladder	Specification
CE mark	Yes
Warranty period	3 years
Flammability mark	–
ENEC mark	ENEC mark
EU RoHS compliant	Yes

Light Technical

Upwards light output ratio	0
Luminous Flux	134,000 lm
Standard tilt angle post-top	–
Standard tilt angle side entry	–
Correlated Colour Temperature	5700 K

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Luminous efficacy (rated) (nom.)	106 lm/W
Colour rendering index (CRI)	≥70
Light source colour	757 cool white
Optical cover type	Polycarbonate bowl/cover
Luminaire light beam spread	6° x 6°
Optic type outdoor	Beam category S2

Operating and Electrical

Input Voltage	230 V
Line Frequency	50 Hz
Inrush current	30 A
Inrush time	16 ms
Power Consumption	981 W
Power Factor (Fraction)	0.95
Connection	Push-in connector and pull relief
Cable	–
Number of products on MCB of 16 A type B	2

Temperature

Ambient temperature range	–40 to +50 °C

Controls and Dimming

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DMX interface
Control interface	Dynamix DMX
Constant light output	No

Mechanical and Housing

Housing material	Aluminium
Reflector material	Polycarbonate
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	Aluminium
Housing Colour	Aluminium
Mounting device	Mounting bracket adjustable
Optical cover/lens shape	Flat
Optical cover/lens finish	Clear
Overall length	750 mm
Overall width	616 mm

Overall height	450 mm
Effective projected area	0.220 m²
Dimensions (height x width x depth)	450 x 616 x 750 mm

Approval and Application

Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK08 [5 J vandal-protected]
Surge Protection (Common/Differential)	Luminaire surge protection level up to 6 kV differential mode and 10 kV common mode
Protection class IEC	Safety class I

Initial Performance (IEC Compliant)

Luminous flux tolerance	+/–7%
Initial chromaticity	(0.321, 0.335) SDCM <5
Power consumption tolerance	+/–10%
Init. Color Rendering Index Tolerance	+/–2

Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 50,000 h	5 %
Lumen maintenance at median useful life* 50,000 h	L80

Application Conditions

Performance ambient temperature Tq	25 °C
Maximum dim level	10%

Product Data

Order product name	BVP415 1340/757 PSDMX 230V BV S2 T25
Full product name	BVP415 1340/757 PSDMX 230V BV S2 T25
Full EOC	871869911607100
Order code	11607100
Material no. (12 NC)	912300023820
SAP numerator – quantity per pack	1
EAN/UPC — Product/Case	8718699116071
Numerator – packs per outer box	1
EAN/UPC – Case	8718699116071

Dimensional drawing