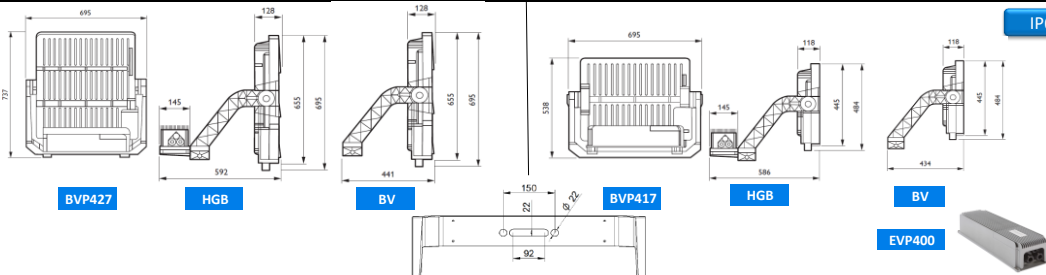


FINAL : Feb 2019 CR V0

Philips ArenaVision LED gen3 floodlighting system

ArenaVision LED gen3 - data sheet

ArenaVision LED gen3 LUMINAIRE & DRIVER BOX						
	Luminaire types BVP417 (2 LED Engines) / BVP427 (3 LED Engines)					
Luminaire versions	BV: Basic Version (separate driver box) / HGB: Housing Gear Box (driver box pre-fitted on the mounting bracket) in a Box					
Driver box type	EVP400 (DMX-RDM version)					
Source light flux (Ta dependent)	Up to 180,000 lm (BVP427; CRI >85) Up to 195,000 lm (BVP427; CRI >80) Up to 221,000 lm (BVP427; CRI >70) Up to 120,000 lm (BVP417; CRI >85) Up to 130,000 lm (BVP417; CRI >80) Up to 147,000 lm (BVP417; CRI >70) (tolerances on light flux: +/- 7%)					
System power	Up to 1578 W (BVP427) / Up to 1052 W (BVP417) (tolerances on system power: +/- 10%)					
Luminaire efficacy	Up to 120 lm/W (depends on floodlight's Ta dependent version and CRI)					
Correlated Color Temp. (CCT)	Cool White (CW) 5700 K (tolerances on CCT: +/- 400 K)					
Color Rendering Index (CRI)	min: 85, typical: 90 / min: 80 / min: 70					
TLCI per color code	85 (957) / 65 (857) / 49 (757)					
SDCM (MacAdam ellipse)	< 5					
Percent flicker factor	< 1% (Measured with flicker meter ARRI Light Analyzer P.R.O.F.)					
Light distributions / optics	From 2 x 6° to 2 x 19° / 7 symmetrical optics / 4 Asymmetrical optics					
Operating temperature range	-40°C up to +45°C (depends on floodlight's Ta dependent version)					
Electrical insulation class	Class I					
Degree of Ingress Protection	IP66					
Luminaire dimensions (LxWxH)	737 x 695 x 128 mm (BVP427) / 538 x 695 x 118 mm (BVP417)					
Driver box dimensions (LxWxH)	500 x 145 x 120 mm					
Luminaire weight	BVP417 (BV): 22 kg / BVP417 (HGB): 29 kg / BVP427 (BV): 26,5 kg / BVP427 (HGB): 33 kg (tolerances on weight: +/- 10%)					
Driver box weight	6,3 kg					
Luminaire windage area (SCx)	BVP417 (BV: 0.10 - 0.34) (HGB: 0.18 - 0.33) / BVP427 (BV: 0.12 - 0.48) (HGB: 0.20 - 0.47) Tilt between 0° - 90°					
Material / Finishing	Housing/ Electrical connection box / Mounting bracket: PDC Molded aluminum End caps: PDC Aluminum in BLUE color Plastics / Cables: UV protected Standar Raw aluminium color. Optional Dark grey RAL 10714 for Housing, Bracket and Front Face Driver box is always painted in raw aluminium color (other paint colors are not possible)					
Driver box mains input	Optional 200 - 220V/50-60Hz* or 230-400V/50-60Hz (tolerances on mains supply voltage fluctuations: +/- 10%) (* only for Japan version with longer lead time)					
Inrush current	20 A during 160 µs at 230 V mains / 30 A during 160 µs at 400 V mains					
Power factor	> 0.95 at full power					
Surge protection	10 kV standard (driver integral)					
Life-time / Lumen maintenance	L80B50: up to 50000 hours					
Driver box lifetime / Failure rate	50000 hours at operation temperature range / 0.5% per 5000 hours					
Luminaire installation	Outdoor: on mast-head frame/wall/catwalk or Indoor: on roof or ceiling/wall or catwalk U-shaped mounting bracket with foot-print suitable for 3-point fixation by means of M20 bolts Vertical aiming from the horizontal: -90° / +90° (not suitable for uplighting, Side lighting, Refer MI sheet) Standing-up or hanging-down mounting					
Driver box installation	Indoor/outdoor open air without need of cabinet or inside electrical cabinet (IP54) or inside electrical room Either pre-fitted on the luminaire (HGB version) or remotely at max 200 m distance to luminaire Fixation on flat surface by means 4 standard screws/bolts thru the key slot holes Universal fixation position (cable glands never upward for outdoor)					
Luminaire electrical connection / Cabling	Luminares are always supplied with electrical connection box pre-fixed enabling wiring between floodlight and driver box Cable entry via 1xM25 cable gland accepting cable diameter between 13 and 18 mm and wiring with screw-less terminals for wires up to 2.5mm²					
Driver box electrical connection / Cabling	Mains input: Screw-less terminals for wires up to 4mm² / Cable entry via 1xM25 cable gland accepting cable diameter between 13 and 18 mm (no thru-wiring in/out) Output to luminaire: Screw-less terminals for wires up to 2.5mm² / Cable entry via 1xM25 cable gland accepting cable diameter between 13 and 18 mm Cable to luminaire (BV version luminaire): One cable of 7-core (8-core for distance > 50m) at length of customer choice (cables are not supplied by Philips)					
DMX-RDM control interface	System connectivity via 2xRJ45 connectors / Cable entry via 1xM20 cable gland accepting two cables (in/out) of 6mm (+/-1mm) diameter to be connected to RJ45 connectors located inside electrical compartment of driver box. Installer to connect the male connectors of RJ45 after passing thru the cable via cable gland					
Luminaire accessories	External spill-light control louvre. Precision Aiming Device (Optional)					
Optional versions	CLO / Indoor swimming pool protected (SWP) / Marine salt protected (MSP)					
Certification / Listing	CE, ENEC, VDE-Ball proof					
Packaging content	Contains floodlight and driver box either pre-fitted (HGB) or separate (BV). Driver box of BV version contains a suspension kit with its fixing parts					

