

Philips OptiVision LED gen3.5 floodlighting system

OptiVision LED gen3.5 - data sheet

OptiVision LED gen3.5 LUMINAIRE & DRIVER BOX						
	BVP518 (2 LED Engines) / BVP528 (3 LED Engines)					
Luminaire types	BV: Basic Version (separate driver box) / HGB: Housing Gear Box (driver box pre-fitted on the mounting bracket) in a Box					
Luminaire versions	EVP500 (DALI version)					
Driver box type	Up to 222,000 lm (BVP527; CCT 5700, CRI 70) Up to 222,000 lm (BVP527; CCT 4000, CRI 70) Up to 148,000 lm (BVP517; CCT 5700, CRI 70) Up to 148,000 lm (BVP517; CCT 4000, CRI 70) (tolerances on light flux: +/- 7%)					
Source light flux (Ta dependent)	Up to 1500 W (BVP528) / Up to 1000 W (BVP528) (tolerances on system power: +/- 10%)					
System power	Up to 125 lm/W (depends on floodlight's Ta dependent version, CCT and CRI)					
Luminaire efficacy	Cool White (CW) 5700k / Natural White (NW) 4000k / Warm White(WW) 3000k (tolerances on CCT: +/-400k)					
Correlated Color Temp. (CCT)	min: 70					
Color Rendering Index (CRI)	49 (757) / 48 (740)					
TLCI per color code	< 5					
SDCM (MacAdam ellipse)	4 Rotational Symmetrical beam optics from 2 x 11° to 2 x 19° / 14 Asymmetrical optics Narrow to Extra Wide Beam					
Light distributions / optics	-40°C up to +45°C (depends on floodlight's Ta dependent version)					
Operating temperature range	Class I					
Electrical insulation class	IP66					
Degree of Ingress Protection	737 x 695 x 128 mm (BVP528) / 538 x 695 x 118 mm (BVP518)					
Luminaire dimensions (LxWxH)	500 x 145 x 120 mm					
Driver box dimensions (LxWxH)	BVP518 (BV): 22 kg / BVP518 (HGB): 29 kg / BVP528 (BV): 26,5 kg / BVP528 (HGB): 33 kg (tolerances on weight: +/- 10%)					
Luminaire weight	6.3 kg					
Driver box weight	BVP518 (BV: 0.10 - 0.34) (HGB: 0.18 - 0.33) / BVP528 (BV: 0.12 - 0.48) (HGB: 0.20 - 0.47) Tilt between 0° - 90°					
Luminaire windage area (SCx)	Housing/ Electrical connection box / Mounting bracket: PDC Molded aluminum End caps: PDC Aluminum in GREY 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 aluminum color (other paint colors are not possible)					
Material / Finishing	230-400V/50-60Hz (tolerances on mains supply voltage fluctuations: +/- 10%) (some limitation of light flux versions for BVP528 / BVP518 floodlight if used at 220V)					
Driver box mains input	20 A during 160 µs at 230 V mains / 30 A during 160 µs at 400 V mains					
Inrush current	> 0.95 at full power					
Power factor	10 kV standard (driver integral)					
Surge protection	L80B50: up to 100000 hours					
Life-time / Lumen maintenance	50000 hours at operation temperature range / 0.5% per 5000 hours					
Driver box lifetime / Failure rate	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) Standing-up or hanging-down mounting (not for HGB version, Refer Mounting Instrusction sheet for options)					
Luminaire installation	Indoor/outdoor open air without need of cabinet or inside electrical cabinet (IP54) or inside electrical room or inside mast (min. entrance door opening 125 x 600 mm) 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)					
Driver box installation	Luminaires 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					
Luminaire 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)					
Driver box electrical connection / Cabling	Dynadimmer in three options DDF1, DDF2, DDF3 (factory preset)					
Integral dimming controls	Screw-less terminals suitable wires up to 2.5 mm² / Cable entry via 1xM20 cable gland accepting cable diameter between 10 and 14 mm (no thru-wiring in/out)					
DALI control interface	External spill-light control louvre, Precision Aiming Device (Optional)					
Luminaire accessories	CLO / Integral spill-light control louvre or control plate for asymmetrical beam optics (LO, BL or LT) / Indoor swimming pool protected (SWP) / Marine salt protected (MSP)					
Optional versions	CE, ENEC, VDE-Ball proof					
Certification / Listing	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					
Packaging content						

Gravesham Borough Council