Sports and area

Lights should always blend in with the arena, and liven up the atmosphere without disrupting the game. When the players look up to catch the ball, Sports and area flood lighting put the light on the ball clearly, yet with minimal glare and very little heat. Players and spectators alike can focus on the game and enjoy it the utmost.

Sports and area

IEC EN60598

ArenaVision LED gen2

Enabling sports venues to offer a new experience

ArenaExperience | **PerfectPlay** **system compatible**

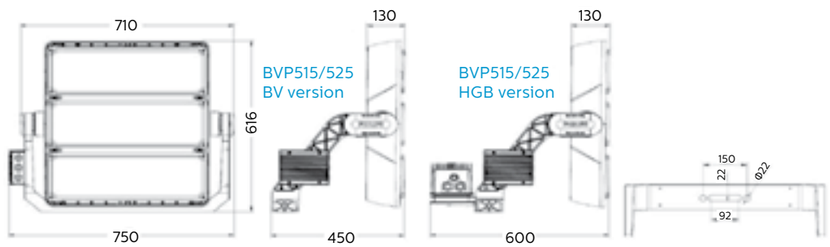
The Philips ArenaVision LED gen2 floodlighting system is an innovative LED pitch-lighting solution that supports the latest TV broadcasting standards and features a control platform. Designed exclusively for sports and multifunctional lighting applications, ArenaVision LED gen2 luminaires offer outstanding 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 prefixed onto the mounting bracket of the floodlight (HGB version) for ease of installation and lower initial cost.

Features and Benefits

- Maximum design flexibility and a high level of lighting quality – no flicker effect in televised applications
- Floodlight system delivers maximum light output while ensuring effective thermal management in order to maximize lifetime and minimize maintenance costs
- System enables basic package of lighting dimming/ control possibilities using DALI-enabled driver box
- LED technology allows instant, dynamic control of the lighting
- Highly efficient optical systems
- Philips know-how and global support in creating lighting for broadcasting and value-adding experiences

Product size

All dimensions in millimeters



IP66 | 50Khrs | 113 lm/W

Technical parameters	
Luminaire types	BVP415 (2-module) / BVP425 (3-module)
Luminaire versions	**BV:** Basic Version (separate driver box) **HGB:** Housing Gear Box (driver box pre-fitted on the mounting bracket)
Driver box type	EVP500 DALI (DMX version is not available yet)
Source light flux (Ta dependent)	BVP425 (CRI 90): up to 135 Klm outdoor / up to 114 Klm indoor BVP425 (CRI 80): up to 152 Klm outdoor / up to 128 Klm indoor BVP425 (CRI 70): up to 194 Klm outdoor / up to 163 Klm indoor BVP415 (CRI 80): up to 101 Klm outdoor / up to 85 Klm indoor BVP415 (CRI 70): up to 129 Klm outdoor / up to 109 Klm indoor
System power	**BVP425:** up to 1471 W outdoor / up to 1160 W indoor, **BVP415:** up to 981 W outdoor / up to 773 W indoor
Luminaire efficacy	Up to 113 lm/W (depends on floodlight's Ta dependent version and CRI)
Color Temperature (CCT)	Cool White (CW) 5700 K (±400 K)
CRI	90% / 80% / 70%
Percent flicker factor	< 1% (Measured with flicker meter ARRI Light Analizer P.R.O.F.)
Light distributions / optics	From 2 x 6° to 2 x 19° / 7 symmetrical 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 (l x w x h)	616 x 750 x 130 mm
Driver box dimensions (l x w x h)	500 x 145 x 120 mm
Luminaire weight	**BVP415 (BV):** 22 Kg / **BVP415 (HGB):** 28.5 Kg / **BVP425 (BV):** 26 Kg / **BVP425 (HGB):** 32.5 Kg (weight within 10% tolerance)
Driver box weight	6 Kg (weight within 10% tolerance)
Luminaire windage area (SCx)	**BVP415 BV:** 0.22 m^2 (**HGB:** 0.38 m^2) / **BVP425 BV:** 0.35 m^2 (**HGB:** 0.51 m^2) at 65° tilt
Material / Finishing	Housing/ Electrical connection box / Mounting bracket: Molded aluminum End caps: Plastics in BLUE color Plastics / Cables: UV protected No paint on standard luminaire, raw aluminum (optionally, can be painted in other colors except heat-sink always black) Driver box is always painted in raw aluminum color (other paint colors are not possible)
Driver box mains input	220-400V / 50-60Hz (mains supply voltage fluctuations within 10% tolerance)
Inrush current	18 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
Lumen Maintenance (*)	up to 50,000 hours L80
Driver box lifetime / Failure rate	50,000 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), 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	Luminaires are always supplied with electrical connection box pre-fixed enabling wiring between flood-light 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 2,5mm^2
Driver box electrical connection / Cabling	Mains input: Screw-less terminals for wires up to 4mm^2 / Cable entry via 1xM25 cable gland accepting cable diameter between 13 and 18mm (no thru-wiring in/out) Output to luminaire's electrical connection box: Screw-less terminals for wires up to 2,5mm2 / Cable entry via 1xM25 cable gland accepting cable diameter between 13 and 18 mm Cables to luminaire's electrical connection box (BV version luminaire): One cable of 7-core each at length of customer choice (cables are not supplied by Philips)
DALI control interface	Screw-less terminals suitable wires up to 2.5 mm^2 / Cable entry via 1xM20 cable gland accepting cable diameter between 10 and 14mm (no thru-wiring in/out)
Luminaire accessories	External spill-light control louvre ZVP420 L and ZVP500 L (set of 2 pcs) Precision aiming device ZVP420 PAD A0
Optional versions	CLO / Indoor swimming pool protected (SWP) / Marine salt protected (MSP)
Certification / Listing	CE, ENEC, RoHS, 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

Sports and area

OptiVision LED gen2

A new era in smart area and recreational sports lighting

PerfectPlay **system compatible**

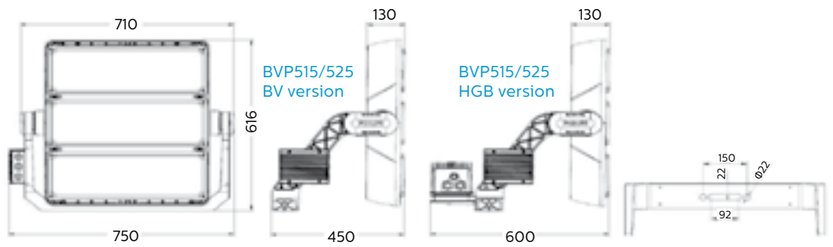
The Philips OptiVision LED gen2 floodlighting system provides a complete lighting solution for the simplest through to the most complex area and recreational sports lighting applications. The high-efficiency floodlights come with three or two LED light modules, which function with an external driver box – separate for use at a distance from the floodlight (BV), or pre-fixed onto the mounting bracket of the floodlight (HGB) for ease of installation and lower initial cost. They meet the highest performance standards, provide outstanding light quality, and ensure safety and visual comfort. OptiVision LED gen2 offers new possibilities to reduce energy consumption and increase flexibility (instant start, programmable lighting levels) when used in conjunction with Philips' advanced system controls and sensors. The floodlights are also compatible with other external control systems via DALI protocol.

Features and Benefits

- Innovative floodlight with dedicated optics that ensure maximum optical efficiency and enable accurate light distribution with a minimum of spill light
- Advanced Philips system controls and sensors enable additional energy savings (up to 65%) in area lighting applications
- Minimized maintenance costs thanks to long-lasting LEDs and the luminaire's thermal management system, as well as its reliable IP66 driver box
- Precisely controlled light distribution – symmetrical and asymmetrical – limits light pollution
- Light can be dimmed/controlled according to actual need, significantly reducing energy costs
- Preprogrammed basic plug & play control solutions with integration

Product size

All dimensions in millimeters



IP66 | 100Khrs | 112 lm/W

Technical parameters	
Luminaire types	BVP515 (2-module) / BVP525 (3-module)
Luminaire versions	**BV:** Basic Version (separate driver box) **HGB:** Housing Gear Box (driver box pre-fitted on the mounting bracket)
Driver box type	EVP500 (DALI)
Source light flux (Ta dependent)	BVP525 (5700K): up to 194 Klm outdoor / up to 163 Klm indoor BVP525 (4000K): up to 185 Klm outdoor / up to 156 Klm indoor BVP515 (5700K): up to 129 Klm outdoor / up to 109 Klm indoor BVP515 (4000K): up to 123 Klm outdoor / up to 104 Klm indoor Tolerances on light flux: ± 7%
System power	**BVP525:** up to 1471 W outdoor / up to 1160 W indoor (± 10%) **BVP515:** up to 981 W outdoor / up to 773 W indoor (± 10%)
Luminaire efficacy	Up to 114 lm/W (depends on floodlight's Ta dependent version and CCT)
Color Temperature (CCT)	Cool White (CW) 5700 K / Natural White (NW) 4000 K (±400 K)
CRI	70%
Light distributions / optics	4 rotational beam optics from 2 x 11° to 2 x 19° 4 asymmetrical beam optics from narrow to extra narrow
Operating temperature range	-40°C up to 45°C (depends on floodlight's Ta dependent version)
Electrical insulation class	Class I
Luminaire dimensions (l x w x h)	616 x 750 x 130 mm
Driver box dimensions (l x w x h)	500 x 145 x 120 mm
Luminaire weight	**BVP515 (BV):** 21 Kg / **BVP515 (HGB):** 28 Kg / **BVP525 (BV):** 25 Kg / **BVP525 (HGB):** 31.5 Kg (weight within 10% tolerance)
Driver box weight	6 Kg (weight within 10% tolerance)
Luminaire windage area (SCx)	**BVP515 BV:** 0.18 m^2 (**HGB:** 0.34 m^2); **BVP525 BV:** 0.23 m^2 (**HGB:** 0.39 m^2) at 15° tilt / **BVP515 BV:** 0.24 m^2 (**HGB:** 0.40 m^2); **BVP525 BV:** 0.32 m^2 (**HGB:** 0.48 m^2) at 40° tilt
Material / Finishing	Housing/ Electrical connection box / Mounting bracket: Molded aluminum End caps: Plastics in GREY color Plastics / Cables: UV protected No paint on standard luminaire, raw aluminum (optionally, can be painted in other colors except heat-sink always black) Driver box is always painted in raw aluminum color (other paint colors are not possible)
Driver box mains input	220-400V / 50-60Hz (mains supply voltage fluctuations ± 10%)
Inrush current	18 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
Lumen Maintenance (*)	100,000 hours L80
Driver box lifetime / Failure rate	50,000 hours at operation temperature range / 0.5% per 5000 hours
Luminaire installation	Outdoor: on mast-head frame/wall 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
Driver box 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 w=125 mm x h=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/inside mast)
Luminaire electrical connection / Cabling	Luminaires are always supplied with electrical connection box pre-fixed enabling wiring between flood-light 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 2,5mm^2
Driver box electrical connection / Cabling	Mains input: Screw-less terminals for wires up to 4mm^2 / Cable entry via 1xM25 cable gland accepting cable diameter between 13 and 18mm (no thru-wiring in/out) Output to luminaire's electrical connection box: Screw-less terminals for wires up to 2,5mm^2 / Cable entry via 1xM25 cable gland accepting cable diameter between 13 and 18 mm Cables to luminaire's electrical connection box (BV version luminaire): One cable of 7-core each at length of customer choice (cables are not supplied by Philips)
Integral dimming controls	Dynadimmer in three options DDF1, DDF2, DDF3 (factory preset)
DALI control interface	Screw-less terminals suitable wires up to 2.5 mm^2 / Cable entry via 1xM20 cable gland accepting cable diameter between 10 and 14mm (no thru-wiring in/out)
Luminaire accessories	External spill-light control louvre ZVP420 L and ZVP500 L (set of 2 pcs) for symmetrical S type optics External zero candela louvre at 90° ZVP520 L-A90 and ZVP500 L-A90 (set of 2 pcs) for asymmetrical A type of optics Precision aiming device ZVP420 PAD A0 for symmetrical S type optics Precision aiming device ZVP520 PAD A30 for asymmetrical A type optics
Optional versions	CLO / Integral spill-light control louvre or control plate for asymmetrical beam optics (LO or LT) / Indoor swimming pool protected (SWP) / Marine salt protected (MSP)
Certification / Listing	CE, ENEC, RoHS, 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

Sports and area

SportsStar

Lighting your way to success

PerfectPlay **system compatible**

Philips SportsStar LED Floodlight sets the standard in high quality optical distribution with high performance and low light pollution (or effective light control). From Sports to Area Lighting, our system, including the high masts needed, projects the light exactly where it should be going.

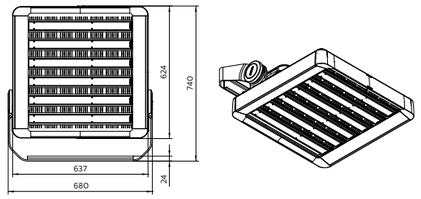
Choose the right illumination levels for any given setting with Philips SportsStar LED Floodlight.

Features and Benefits

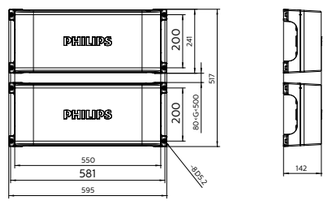
- System efficacy. Energy savings up to 40% compared to conventional systems
- Reliable Performance. Instant light, lifetime 50,000hours (L70B50@ Ta35°C)
- Excellent Quality. Robustness, vibration-proof, wind force protection, and with anti-corrosion spray paint, IP66 protection

Product size

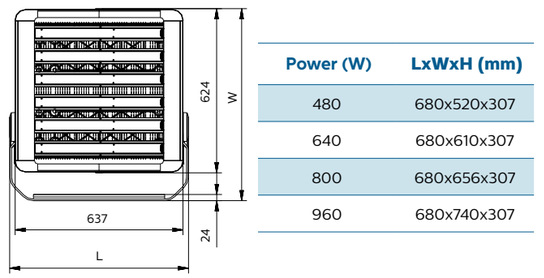
All dimensions in millimeters



SportsStar, BVP622



SportsStar, EVP622



SportsStar, BVP621

Power (W)	LxWxH (mm)
480	680x520x307
640	680x610x307
800	680x656x307
960	680x740x307

IP66 | 50Khrs | 105 lm/W

Technical parameters		
Model	BVP621	
Lumen Maintenance (*)	50,000 hrs L70 @35 °C	
System Lumen Output	CW & NW - Up to 100,800 lm, WW - Up to 86,000 lm	
Efficacy	Up to 105lm/W,	
CRI	70%, 90%	
Color Temperature (CCT)	CW - 5700K, NW - 4000K, WW - 3000K	
Light Distribution	AWB - Asymmetrical Wide, SWB - Symmetrical Wide, SMB - Symmetrical Medium, NB - Narrow Sports optics available	
System Wattage	960W/800W/640W/480W	
Input Voltage	220-240V Standard Version / 50-60Hz 380-415V DMX Version / 50-60Hz	
Power factor	>0.95	
Surge Protection	10KV, 15KV (Optional)	
IP	IP66	
IK	1K08	
Salty Spray	1,000 hours	
Operation temperature	-40~50°C	
Integrated/Remote	Integrated version, Remote version (Optional)	
Installation	U-Shaped Bracket	
Weight	36 KG/26 KG/24 KG/22 KG	
Appearance	Anti-dust exposed Lens; 1.5m Fly wire; RAL 7022(Gearbox); RAL 9010(Housing)	
Ordering information	BVP621 LED456/WW 480W 220-240V AWB BVP621 LED760/WW 800W 220-240V NB BVP621 LED456/WW 480W 220-240V NB BVP621 LED456/WW 480W 220-240V SWB BVP621 LED912/WW 960W 220-240V AWB BVP621 LED760/WW 800W 220-240V AWB BVP621 LED608/WW 640W 220-240V AWB BVP621 LED456/WW 480W 220-240V SMB BVP621 LED672/NW 640W 220-240V AWB BVP621 LED912/WW 960W 220-240V SMB BVP621 LED504/NW 480W 220-240V AWB BVP621 LED840/NW 800W 220-240V AWB BVP621 LED504/NW 480W 220-240V NB BVP621 LED1008/NW 960W 220-240V NB BVP621 LED840/NW 800W 220-240V NB	BVP621 LED1008/NW 960W 220-240V AWB BVP621 LED504/NW 480W 220-240V SWB BVP621 LED504/CW 480W 220-240V AWB BVP621 LED840/CW 800W 220-240V AWB BVP621 LED672/CW 640W 220-240V AWB BVP621 LED1008/NW 960W 220-240V SMB BVP621 LED504/NW 480W 220-240V SMB BVP621 LED504/CW 480W 220-240V NB BVP621 LED1008/CW 960W 220-240V NB BVP621 LED1008/CW 960W 220-240V AWB BVP621 LED504/CW 480W 220-240V SWB BVP621 LED504/CW 480W 220-240V SMB BVP621 LED840/CW 800W 220-240V NB BVP621 LED1008/CW 960W 220-240V SMB BVP621 LED912/WW 960W 220-240V NB
Remote Gear Luminaires	BVP622 LED1008/757 960W NB BVP622 LED1008/757 960W S5 BVP622 LED1008/757 960W S6 BVP622 LED1008/757 960W S7 BVP622 LED1008/757 960W SMB BVP622 LED1008/757 960W AWB	BVP622 LED1008/757 960W SWB BVP622 LED672/957 960W NB DMX BVP622 LED672/957 960W S5 DMX BVP622 LED672/957 960W S6 DMX BVP622 LED672/957 960W S7 DMX
Remote Gearboxes	EVP622 IP66 960W 220-240V EVP622 IP66 960W 380-415V	EVP622 IP66 960W 220-240V DMX EVP622 IP66 960W 380-415V DMX

Sports and area

IEC EN60598

ClearFlood G2

LED solution for sports and area lighting

PerfectPlay **system compatible**

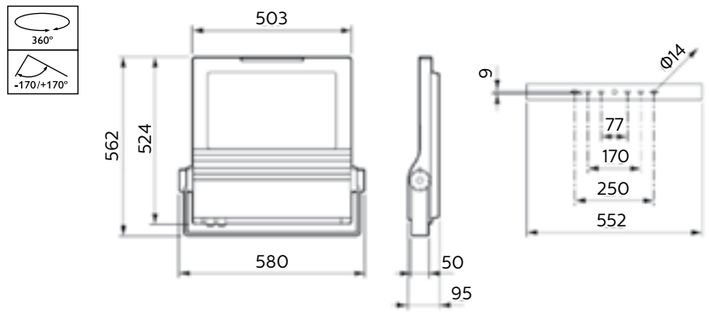
ClearFlood is a range of floodlights that lets you choose the exact number of lumens you need for your application. Designed around state-of-the-art LEDs and extremely highefficiency optics, this very competitive solution offers an industry-leading lux per euro ratio and significant energy savings. The choice of different optics opens up new application possibilities for LEDs. ClearFlood is easy to install and perfect for replacing conventional light-points as it uses the same electrical installation and poles. Selecting the required light output is also straightforward.

Features and Benefits

- Designed for 1:1 retrofit, perfect for replacing conventional technology retaining the same electrical installation and poles
- Highly competitive solution offering an outstanding lux/euro ratio and energy savings
- Offering a large variety of lighting needs from recreational sport, areas and even road and steet, by providing a variety of optics used in the range
- Multiple control options ensure increased efficiency with intelligent lighting

Product size

All dimensions in millimeters



IP66 100Khrs 140 lm/W

Technical parameters	
Type	BVP650
Light source	Integral LED-module
Power (±10%)	Up to 300 W depending on configuration
Luminous flux	(Neutral White 740 – Cool White 757) : up to 40,000 lm (Warm White 730) : up to 34,000 lm
Luminaire efficacy	Up to 140 lm/W average
Color Temperature (CCT)	3000, 4000 or 5700 K
CRI	>70%
Lumen Maintenance (*)	100,000 hours min L90B10 @ 25 °C
Operating temperature range	-40 to 50 °C
Mains voltage	220-240 V / 50-60 Hz
Option	Class I or II
Power factor	>0,95
Surge protection	6 kV (10 kV optional)
Dimming	DynaDimmer (5 step) Constant light output (CLO) Module Temperature Protection (NTC) AmpDim (mains dimming) DC Emergency DALI
Optic	Asymmetrical optics complete sets with or without internal back light controls louvers (OFA52, DX10, DX50, DX51) Symmetrical (S) Medium and large road optics set with or without internal louvers
Optical cover	Clear tempered glass, flat
Material	Housing and U-bracket: die-cast aluminum Optional seafront special paint protection
Color	Grey aluminium (RAL9007) Other colors available upon request
Connection	Mains via an M20 cable glands that accept cable diameters from 10 mm to 14 mm. External control command Dali (D9) via a
Maintenance	From below by opening the housing with a single quick-release clip
Installation	On roof, or mast harrow or indoor gateway U-bracket stirrup with standard bolts and nuts Protractor scale with intervals of 5° Max adjustment from the vertical: -170 to 170° Max horizontal aiming: 0 to 360° SCv: at 90° 0.26m²

Sports and area

IEC EN60598

ClearFlood large

The best solution for 1:1 retrofit

PerfectPlay **system compatible**

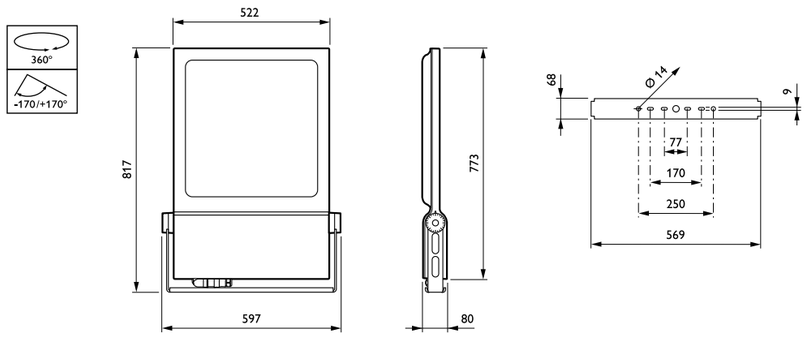
ClearFlood Large is designed to meet the requirements of a wide range of floodlighting applications. It also includes all the necessary control features and interfaces to make it future-proof and even more efficient. ClearFlood Large lets you choose the exact number of lumens you need for your application. Incorporating extremely high-efficiency optics and state-of-the-art LEDs, it is a highly competitive solution offering an outstanding lux/euro ratio and energy savings of up to 40% (without the use of additional controls). The wide choice of optics ensures maximum application coverage. ClearFlood Large is easy to install - you simply plug it in and select the best option for your needs. Perfect for replacing conventional technology and enabling intelligent lighting control while retaining the same electrical installation and poles.

Features and Benefits

- Fast payback and low total cost of ownership with energy savings and minimum maintenance costs
- Multiple control options ensure increased efficiency with intelligent lighting
- Combination of lenses and flux options ensures high level of project flexibility

Product size

All dimensions in millimeters



IP66 100Khrs 122 lm/W

Technical parameters	
Type	BVP651
Light source	Integral LED-module
Power	252-549 W depending on configuration
Luminous flux	35,000-65,000 lm
Luminaire efficacy	Neutral white: up to 122 lm/W Warm white: up to 108 lm/W
Color Temperature (CCT)	3000, 4000 or 5700 K
CRI	70%
Lumen Maintenance (*)	From 60,000 to 100,000 hrs L80B10 depends on the power and ambient temperature
Operating temperature range	-30 to 50 °C
Driver	Built-in (self ballasted LED-module)
Surge protection	4 kV (10 kV optional)
Mains voltage	220-240 V AC / 50-60 Hz
Dimming	Constant light output (CLO) 1-10 V DALI dimming DynaDimmer
Optic	Symmetrical or asymmetrical Distribution road comfort, medium, wide or wet road
Material	Housing: die-cast aluminum Lenses: PMMA Cover: glass, flat
Color	Grey aluminium (RAL9007)
Connection	External connector with 5 poles (IP67)
Maintenance	From below by opening the housing with a single quick-release clip, Serviceable in less than 5 min
Installation	Stirrup fixation Max adjustment from the horizontal: -170 to 170° Max vertical aiming: 0 to 360°
Accessories	Louver

Sports and area

IEC EN60598

Mini 300 LED gen2

Manage lighting and energy by app

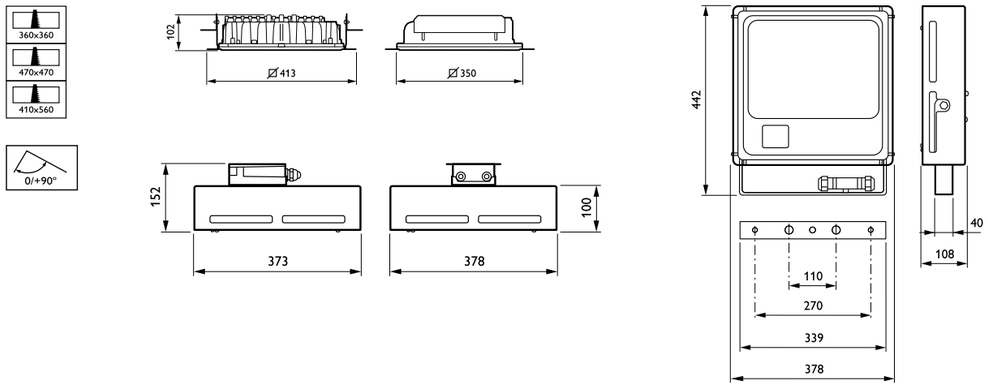
With operating margins under pressure, companies are looking for ways to save energy. LED products like our Mini 300 LED gen2 luminaires are a perfect solution. Designed for petrol-station canopies and low-bay applications, these ultra-efficient retrofit fixtures offer outstanding light quality, effective thermal management, and a very long lifespan. Reduced maintenance, replacement and energy cost means a short payback period, making Mini 300 LED gen2 a shining example of how businesses can save money by opting for green products. A movement detector combined with a daylight sensor enables further energy savings. Our Mini 300 LED gen2 app gives users control in ways that are simply not possible with other luminaires – for instance, reading status and managing lighting from the floor by laptop or Smartphone via Bluetooth.

Features and Benefits

- Scheduler built into the luminaire
- Status can be read from the floor
- Additional energy savings possible with daylight sensor and movement-detection unit
- Wireless management for version with MDU and DLS via Bluetooth from Smartphone or laptop
- Highly efficient, upgradeable and long-life LEDGINE
- Easy to install, also retrofit into existing installations
- Option of built-in controls for maximum energy savings

Product size

All dimensions in millimeters



IP65 100Khrs 122 lm/W

Technical parameters	
Type	BBP400 (recessed version) BVS400 (floodlight version) BCS400 (surface-mounted version)
Light source	Integral LED-module
Power (±10%)	EconomyLine: 61 to 127 W, depending the configuration GreenLine: 39 to 72 W, depending the configuration
Luminous flux	EconomyLine: 5,919 to 13,354 lm, depending the configuration GreenLine: 4,122 to 8,655 lm, depending the configuration
Luminaire efficacy	EconomyLine: up to 109 lm/W; GreenLine: up to 122 lm/W,
Color Temperature (CCT)	5700 and 4000 K
CRI	5700 K: >68% 4000 K: >76%
Lumen Maintenance (*)	EconomyLine: > 70,000 hours L80B10 @ 25 °C GreenLine: > 100,000 hrs L80B10 @ 25 °C
Optics	Symmetrical medium beam (PRM) Symmetrical wide beam (PRW) Symmetrical extra-wide beam (S) Asymmetrical medium beam (PAM) Asymmetrical wide beam (A) Distribution medium road (DM)
Optical cover	Glass, flat
Material	Housing: high-pressure, die-cast aluminum Optics: plastic (PMMA) Gasket: silicone rubber, heat resistant Cover: glass, thermally hardened
Color	White (RAL 9010), silver (RAL 9006), grey (10714) or black (RAL9005) Other RAL or AKZO colors available on request
Connection	Watertight clamps connection device
Operating temperature range	-30 to 50 °C
Driver	Integrated
Mains voltage	220-240V / 50-60 Hz
Inrush current	108 A at 140 µs
Dimming	External dimming: 1-10 V or DALI, Dynadimmer, By scheduler
Options	Wireless connection via Bluetooth, Photocell regulated, Movement sensor (MDU), Constant Light Output (CLO), Scheduler via app, Stand alone dimming via Dynadimmer, External dimming 1-10 V, External dimming DALI, Fuses, Swimming pool coating, Marine salt protected coating, Surge protection up to 10 kV, Master / slave unit
Installation	BBP400 Recessed ceiling mounting - Recessed mounting frame to be supplied with the luminaire in the same box, when selected - Suspension kit to be supplied with the luminaire in the same box, when selected - Electrical connection by means of pre-wired cable and plug and socket terminal block supplied with the luminaire BCS400 surface-mounted version - Surface mounting frame is delivered with the luminaires - Suspension kit to be supplied with the luminaire in the same box, when selected BVS400 floodlight version - Integrated handle - Electrical connection by means of pre-wired cable and plug and socket terminal block supplied with the luminaire
Accesories	Ceiling mounting frame for BBP400 Suspension kit for BBP400 or BCS400
Remarks	Wireless connection via Bluetooth - only version with sensor Free app to download from Philipswebsite

Sports and area

IEC EN60598

Tango mini LED Floodlight

High performance in compact size

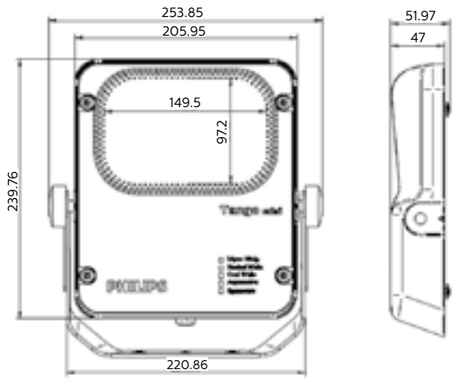
Tango mini LED is a general purpose LED flood lighting luminiare for various lighting applications, such as area lighting, bill-board, façade, industry area and other general applications. The Tango mini LED flood light incorporates LED light source, optical system, heat sink and driver into one compact housing. Its specially designed heat sink incorporates aesthetics and functionality to ensure reliability and long lifetime. Tango mini LED takes advantage of LED technology which provides energy savings and a longer lifetime, bringing area lighting into a new era.

Features and Benefits

- System efficacy. Energy savings up to 40% compared to conventional HID/ SON systems
- Reliable Performance. Instant light, lifetime 50,000hours (L70B50@ Ta35°C)
- Excellent Quality. Robustness, vibration-proof, wind force protection, and with anti-corrosion spray paint, IP66 protection

Product size

All dimensions in millimeters



IP65 | 50Khrs | 110 lm/W

Technical parameters	
Model	BVP280
Lumen Maintenance (*)	50,000 hrs L70 @35°C
System Lumen	NW/ CW - 4,400 lm WW - 4,000 lm
Efficacy	Up to 110 lm/W
CRI	70%
Color Temperature	3000/4000/5700K
Light Distribution	Asymmetric Medium Beam (AMB) Symmetric Wide Beam (SWB) Symmetric Medium Beam (SMB)
System Wattage	40W
Input Voltage	220-240V / 50-60Hz Standard Version;
Power factor	>0.95
Surge	10KV
IP	IP65
IK	IK07
Operation temperature	-40~50°C
Installation	U-shaped bracket
Weight (KG)	3 KG
Dimension	254 x 240 x 47 mm
Appearance	Die-casting aluminum housing; 0.6m Flying wire; U-shaped bracket; RAL 9007;
Ordering information	BVP280 LED40/WW 40W 220-240V SMB BVP280 LED40/WW 40W 220-240V SWB BVP280 LED40/WW 40W 220-240V AMB BVP280 LED44/CW 40W 220-240V SWB BVP280 LED44/NW 40W 220-240V SMB BVP280 LED44/NW 40W 220-240V AMB BVP280 LED44/CW 40W 220-240V SMB BVP280 LED44/CW 40W 220-240V AMB BVP280 LED44/NW 40W 220-240V SWB

Sports and area

Tango G3 LED

Long-lasting brightness and energy savings

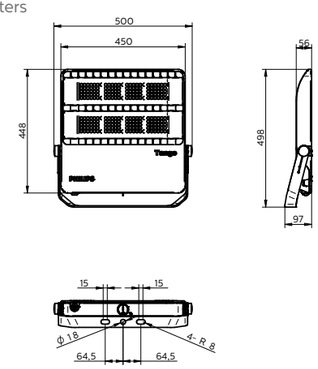
The energy-saving Philips Tango G3 LED Floodlight is the ideal solution for a wide range of Area lighting applications. It incorporates the LED light source, optical system, heat sink and driver into one compact and robust housing that meets globally recognized safety standards. Its specially designed heat sink incorporates aesthetics and functionality to ensure excellent reliability. Powered by LED technology, this luminaire delivers superior performance and a longer lifetime, bringing area lighting to a whole new level.

Features and Benefits

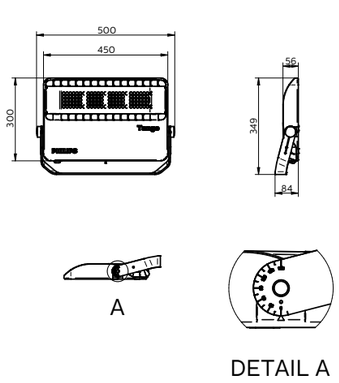
- More energy savings. System efficacy reaches 120lm/W, which generates more than 50% in energy savings compared to conventional floodlights
- Dimmable feature delivers added power efficiency – light areas when you need to
- Long-lasting. Lifetime reaches 50,000 hours at L70
- Easy to install. Tool less opening reduces installation and maintenance time, increase the working efficiency and good user experience
- Flexibility. Optical beam choices (symmetric wide and asymmetric medium) fulfills majority of lighting application needs
- Excellent reliability. Along with the 15KV/KA surge protection, the non-corrosive die-cast aluminum housing and steel bracket provide adequate support when the luminaire is installed in harsh environments

Product size

All dimensions in millimeters



Tango G3 Medium Version



Tango G3 Small Version

IP66 | 50Khrs | 120 lm/W

Technical parameters	
Type	BVP381/BVP382
Power factor	0.95
System lumen output	**BVP381** 50W: 6000lm 70W: 8400lm 100W: 12000lm **BVP382** 120W: 14400lm 150W: 18000lm 200W: 24000lm
CRI	>70
System Wattage	50W;70W;100W;150W;200W
System efficacy	NW/CW - 120Lm/W; WW – 110Lm/W
Optic	Asymmetrical medium beam Symmetrical medium beam Symmetrical wide beam
Casting color	Aluminium Grey
Lumen Maintenance (*)	Up to 50,000 hrs L70 @35°C
Dimensions (LxBxH)	**BVP381:** 500 x 300 x 56mm **BVP382:** 500 x 448 x 56mm
Material	The luminaires housing shall be made of non-Corrosive high pressure ADC with corrosion resistant powder coating. 1.5m Flying wire; Anti-dust exposed lenses
Classifications	IP66 / IK08
Operating Temperature	-40~50°C
Installation	U-shaped bracket Universal installation Aiming angle scale
Certifications	CB, CE, RoHS, IEC60598
Housing Color	RAL9007
Ordering information	BVP381 LED60/CW 50W 220-240V SWB BVP381 LED60/CW 50W 220-240V SMB BVP381 LED60/CW 50W 220-240V AMB BVP381 LED84/CW 70W 220-240V SWB BVP381 LED84/CW 70W 220-240V SMB BVP381 LED84/CW 70W 220-240V AMB BVP381 LED120/CW 100W 220-240V SWB BVP381 LED120/CW 100W 220-240V SMB BVP381 LED120/CW 100W 220-240V AMB BVP382 LED144/CW 120W 220-240V SWB BVP382 LED144/CW 120W 220-240V SMB BVP382 LED144/CW 120W 220-240V AMB BVP382 LED180/CW 150W 220-240V SWB BVP382 LED180/CW 150W 220-240V SMB BVP382 LED180/CW 150W 220-240V AMB BVP382 LED240/CW 200W 220-240V SWB BVP382 LED240/CW 200W 220-240V SMB BVP382 LED240/CW 200W 220-240V AMB BVP381 LED60/NW 50W 220-240V SWB BVP381 LED60/NW 50W 220-240V SMB BVP381 LED60/NW 50W 220-240V AMB BVP381 LED84/NW 70W 220-240V SWB BVP381 LED84/NW 70W 220-240V SMB BVP381 LED84/NW 70W 220-240V AMB BVP381 LED120/NW 100W 220-240V SWB BVP381 LED120/NW 100W 220-240V SMB BVP381 LED120/NW 100W 220-240V AMB	BVP382 LED144/NW 120W 220-240V SWB BVP382 LED144/NW 120W 220-240V SMB BVP382 LED144/NW 120W 220-240V AMB BVP382 LED180/NW 150W 220-240V SWB BVP382 LED180/NW 150W 220-240V SMB BVP382 LED180/NW 150W 220-240V AMB BVP382 LED240/NW 200W 220-240V SWB BVP382 LED240/NW 200W 220-240V SMB BVP382 LED240/NW 200W 220-240V AMB BVP381 LED55/WW 50W 220-240V SWB BVP381 LED55/WW 50W 220-240V SMB BVP381 LED55/WW 50W 220-240V AMB BVP381 LED77/WW 70W 220-240V SWB BVP381 LED77/WW 70W 220-240V SMB BVP381 LED77/WW 70W 220-240V AMB BVP381 LED110/WW 100W 220-240V SWB BVP381 LED110/WW 100W 220-240V SMB BVP381 LED110/WW 100W 220-240V AMB BVP382 LED132/WW 120W 220-240V SWB BVP382 LED132/WW 120W 220-240V SMB BVP382 LED132/WW 120W 220-240V AMB BVP382 LED165/WW 150W 220-240V SWB BVP382 LED165/WW 150W 220-240V SMB BVP382 LED165/WW 150W 220-240V AMB BVP382 LED220/WW 200W 220-240V SWB BVP382 LED220/WW 200W 220-240V SMB BVP382 LED220/WW 200W 220-240V AMB

Sports and area

Tango G2 LED HP

Best area lighting luminaire within your budget

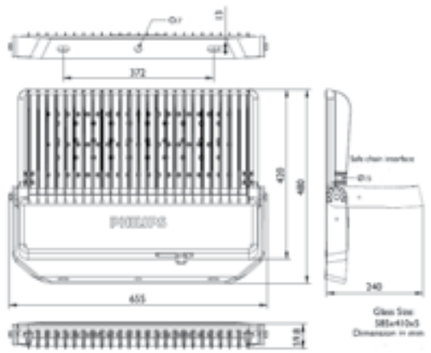
Tango G2 LED HP is not only a general purpose LED flood lighting luminaire for various lighting applications such as area lighting, bill board, façade, industry area, and other general applications, but also can be specially used for some very particular applications such as Harbor, Port and Airport. The Tango G2 LED HP flood light incorporates LED light source, optical system, heat sink and driver into one compact housing. Its specially designed heat sink incorporates aesthetics and functionality ensures reliability and long lifetime. Tango G2 LED HP takes advantage of LED technology which provides energy savings and a longer lifetime, bringing area lighting into a new era.

Features and Benefits

- Energy saving: system efficacy reaches 100lm/W, which gives more than 40% of energy saving when compared to conventional floodlight
- Free from lamp replacement: Lifetime reaches 50,000 hours at L70, which requires no lamp replacement after installation
- Low maintenance cost: IP65 housing ensures low maintenance with no need for internal cleaning, resulting in a lower total cost of ownership
- Flexibility on lighting application: Optical beam choice of symmetric wide, asymmetric wide and narrow beam fulfils majority needs of lighting application
- Good reliability: Painted non-corrosive die-cast aluminum housing, passed 1,000hrs salt spray test with import anticorrosive coating and steel bracket gives extra strength when the luminaire is installed in a rough environment
- Easy installation and maintenance: Universal “U” shape mounting bracket

Product size

All dimensions in millimeters



IP65 | 50Khrs | 100 lm/W

Technical parameters	
Type	BVP283
Lightsource	High Power LED
Power requirement	220-240V 50/60Hz
Power factor	>0.95
Power Consumption	210W, 245W, 280W, 315W, 335W, 350W
LED driver & driving current	Constant current at 700mA
System lumen output	21,000lm, 24,500lm, 28,000lm, 32,000lm, 34,000lm, 35,500lm
CRI	70%
Color Temperature (CCT)	5700K, 4000K, 3000K
Optics	Asymmetric Wide Beam (AWB) Symmetric Wide Beam (SWB) Narrow Beam (NB)
Materialsand finishing	Housing: Die-cast aluminum Gasket: Heat resistant siliconerubber Glass: Tempered glass Housing Colour: Grey AluminiumRAL9007
Lumen Maintenance (*)	50,000 hours L70 @ 35°C
Installation	Universal Bracket
Dimensions (LxBxH)	655 x 420 x 54mm
Weight	12.8KG/13.2KG
Classifications	IP65; IK07; Class I;
Operating Temperature	-40°C to 50°C (Outdoor)
Surge protection	10KV
Controls	DALI & 1-10V Dimming options
Certifications	CB, CQC, CE, RoHS
Ordering information	BVP283 LED192/WW 210W 220-240V AWB BVP283 LED192/WW 210W 220-240V SWB BVP283 LED210/CW 210W 220-240V NB BVP283 LED210/NW 210W 220-240V AWB BVP283 LED210/NW 210W 220-240V SWB BVP283 LED224/WW 245W 220-240V NB BVP283 LED245/CW 245W 220-240V AWB BVP283 LED245/CW 245W 220-240V SWB BVP283 LED245/NW 245W 220-240V NB BVP283 LED256/WW 280W 220-240V AWB BVP283 LED256/WW 280W 220-240V SWB BVP283 LED280/CW 280W 220-240V NB BVP283 LED280/NW 280W 220-240V AWB BVP283 LED280/NW 280W 220-240V SWB BVP283 LED288/WW 315W 220-240V NB BVP283 LED304/WW 335W 220-240V AWB BVP283 LED304/WW 335W 220-240V SWB BVP283 LED315/CW 315W 220-240V NB BVP283 LED315/NW 315W 220-240V AWB BVP283 LED192/WW 210W 220-240V NB BVP283 LED210/CW 210W 220-240V AWB BVP283 LED210/CW 210W 220-240V SWB BVP283 LED210/NW 210W 220-240V NB BVP283 LED224/WW 245W 220-240V AWB BVP283 LED224/WW 245W 220-240V SWB BVP283 LED245/CW 245W 220-240V NB BVP283 LED245/NW 245W 220-240V AWB BVP283 LED245/NW 245W 220-240V SWB BVP283 LED256/WW 280W 220-240V NB BVP283 LED280/CW 280W 220-240V AWB BVP283 LED280/CW 280W 220-240V SWB BVP283 LED280/NW 280W 220-240V NB BVP283 LED288/WW 315W 220-240V AWB BVP283 LED288/WW 315W 220-240V SWB BVP283 LED304/WW 335W 220-240V NB BVP283 LED315/CW 315W 220-240V AWB BVP283 LED315/CW 315W 220-240V SWB

Sports and area

Tempo LED

Illuminating the future

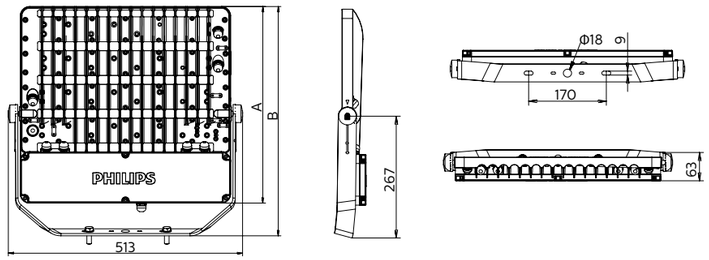
Floodlights are the most widely used outdoor luminaire. Tempo LED Floodlights are highly versatile and are designed to meet diverse application requirements, including billboards, high mast poles, building facade, sport stadiums (non professional), parking spaces, or indoor industrial workspaces. Not only do Tempo LED Floodlights provide illumination of high performance, they also combine functionality with aesthetics, without compromising on cost efficiency and reliability.

Features and Benefits

- Energy-saving, easy replacement
- Designed to optimize billboard illumination as well as meet other diverse application requirements
- Modern design, outstanding quality

Product size

All dimensions in millimeters



No.	Type	A	B
1	Small	283	360
2	Large	431	478

IP65 | 30Khrs | 100 lm/W

Technical parameters	
Type	**BVP162, BVP163**
Color Temperature (CCT)	Warm white (3000K), Neutral (4000K), Cool white (5700K)
CRI	70%
System Lumen output	11000 lm (BVP 162), 22000 lm (BVP 163)
Light Distribution	Asymmetric Wide Beam (AWB)
Wattage	110W (BVP 162), 220W (BVP 163)
Input voltage	220-240V, 50/60hz
Power factor	>0.9
Efficacy	100 lm/w
Working temperature	-40° C < Ta < 50° C
IP	IP65
IK	IK07
Surge protection device	Yes
Wind proof	Designed to withstand grade 14 typhoons
Dimensions (mm)	510 x 365 x 53 (BVP 162), 510 x 500 x 53 (BVP 163)
Weight	5 kg (BVP 162), 7 kg (BVP 163)
Lumen Maintenance (*)	30,000 hours L70B50 @ 35°C
Installation	U-shaped bracket enables easy installation and adjustment to the recommended installation angles: 10°, 25°, 35°
Certification	CQC, CB/EMC, RoHS, CE
Housing material	ADC1 aluminium
Optical glass	Non-glass, UV-resistant, and IP65 dust and water-resistant flat lens (made of imported quality material)
Dimming	No dimming
Ordering information	BVP163 LED220/NW 220W 220-240V AWB BVP162 LED110/NW 110W 220-240V AWB BVP163 LED200/WW 220W 220-240V AWB BVP162 LED100/WW 110W 220-240V AWB BVP163 LED220/CW 220W 220-240V AWB BVP162 LED110/CW 110W 220-240V AWB

Sports and area

IEC EN60598

Essential SmartBright LED Floodlight

Illuminating the exterior efficiently

Philips Essential SmartBright LED Floodlight is a versatile flood light engineered to deliver significant energy savings of up to 85%. This versatile luminaire is an affordable and ideal choice for multi-purpose floodlighting. Its robust construction with high quality exposed flat lens meets IP65 and IK07 requirements. The product has a solid construction and high quality finish ensure that it is not only water and dust proof but also highly resistant to harsh weather conditions and outdoor environments.

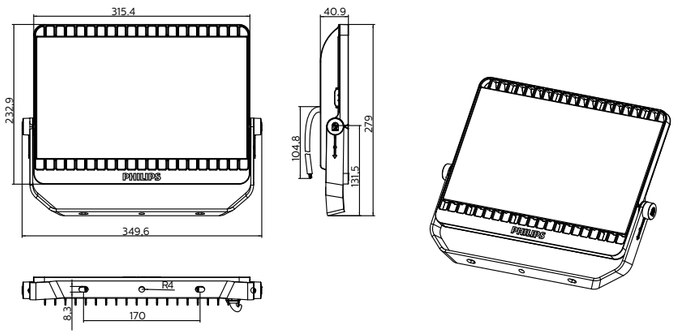
Philips Essential SmartBright LED Floodlight gives you peace of mind as its made with quality components and materials that conform to the highest safety standards. It also boasts a long lifespan of 30,000 hours and significant energy savings of up to 85%.

Features and Benefits

- Use with peace of mind: 4KV surge protection*, IK07 classification, IP65 certified
- Long-lasting performance: Designed for energy savings of up to 85% compared with conventional lighting, L70 30k hrs*, Designed for operations under diverse environment from -40˚C to 45˚C (*Designed to sustain 70% of initial lumen output (L70) at 30,000 hours of lifetime)
- High-quality materials and design: High-quality exposed flat lense enhances safety, Pressure die-cast housing offers excellent corrosion-resistance and robustness
- Wide selection: Multiple choice of color temperature - warm white (3000k), neutral (4000k) and cool white (5700k), Multiple choice of lumen packages

Product size

All dimensions in millimeters



IP65 | 30Khrs | 90 lm/W

Technical parameters	
Type	BVP161
Lumen Maintenance (*)	30,000 hrs L70 @ Ta 35˚ C
Operation Temperature	-40~50°C
IP/IK rating	IP65 / IK07
Certificate	CB, EMC, SAA, CE
Casting color	Grey & Gold
System Lumen Output	From 2300lm to 9000lm
System Wattage	30 to 100W
System efficacy	90lm/w
CRI	80%
SDCM	5
Power Input	220-240V/50~60Hz
Power factor	0.9
Beam angle	30/80˚
Dimensions	30W: 193.2 x 142.2 x 40.9mm 50W: 269.4 x 201.2 x 40.4mm 70W: 315.4 x 232.9 x 40.9mm 100W: 315.4 x 232.9 x 40.9mm
Ordering information	BVP161 LED23/WW 30W 220-240V WB GOLD BVP161 LED23/WW 30W 220-240V WB GREY BVP161 LED26/CW 30W 220-240V WB GOLD BVP161 LED26/CW 30W 220-240V WB GREY BVP161 LED26/NW 30W 220-240V WB GOLD BVP161 LED26/NW 30W 220-240V WB GREY BVP161 LED39/WW 50W 220-240V WB GOLD BVP161 LED39/WW 50W 220-240V WB GREY BVP161 LED43/CW 50W 220-240V WB GOLD BVP161 LED43/CW 50W 220-240V WB GREY BVP161 LED43/NW 50W 220-240V WB GOLD BVP161 LED43/NW 50W 220-240V WB GREY BVP161 LED55/WW 70W 220-240V WB GOLD BVP161 LED55/WW 70W 220-240V WB GREY BVP161 LED60/CW 70W 220-240V WB GOLD BVP161 LED60/CW 70W 220-240V WB GREY BVP161 LED60/NW 70W 220-240V WB GOLD BVP161 LED60/NW 70W 220-240V WB GREY BVP161 LED90/CW 100W 220-240V WB GREY BVP161 LED90/NW 100W 220-240V WB GREY BVP161 LED85/WW 100W 220-240V WB GREY BVP161 LED90/NW 100W 220-240V WB GOLD BVP161 LED90/CW 100W 220-240V WB GOLD BVP161 LED85/WW 100W 220-240V WB GOLD

Sports and area

QVF LED

Compact and economical floodlight

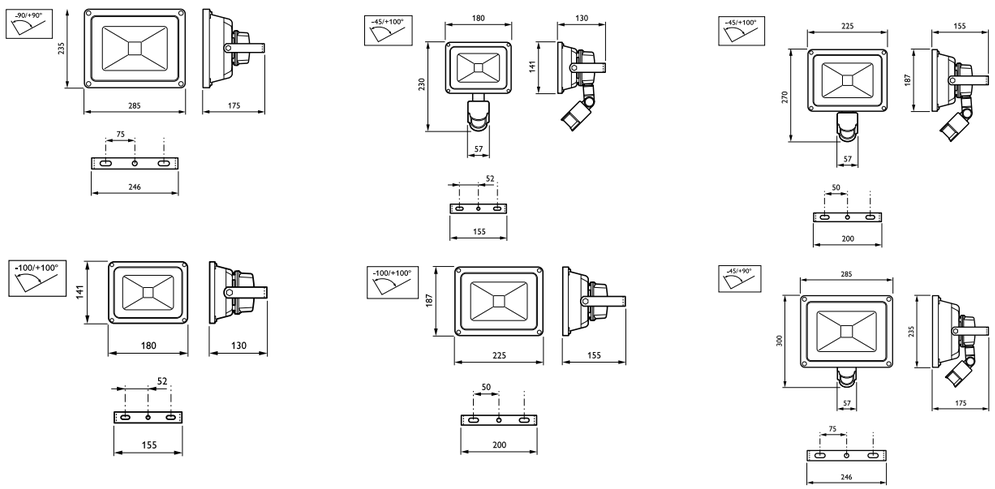
The QVF LED range of compact general-purpose floodlights are designed as an economical replacement for traditional halogen-lamp floodlights. The combination of high-power LEDs and a high-reflectivity optic ensures excellent light output for down or up-lighting applications. The floodlights' LED technology enables substantial energy and maintenance savings. A universal mounting bracket allows wall or surface mounting, with the possibility of tilting upwards or downwards. QVF LED floodlights can also be equipped with a combined presence/daylight sensor.

Features and Benefits

- Reliable thermal design
- Protected against voltage surges caused by lightening
- High safety
- Available in three compact versions
- Robust and durable construction
- IP65 rating
- 4 kV surge-protected
- Enhanced safety features
- Pre-wired with mains cable

Product size

All dimensions in millimeters



IP65 | 25Khrs | 75 lm/W

Technical parameters	
Type	BVP115 (small version, with or without movement detection unit) BVP116 (medium version, with or without movement detection unit) BVP117 (large version, with or without movement detection unit)
Light source	Integral LED-module
Power (±10%)	**BVP115:** 11 W **BVP116:** 35 W **BVP117:** 54 W
Beam angle	100 x 120°
Luminous flux	**BVP115:** 760 lm **BVP116:** 2500 lm **BVP117:** 4050 lm
Luminaire efficacy	Up to 75 lm/W
Color Temperature (CCT)	4000K
CRI	70%
Lumen Maintenance (*)	25,000 hours L80 @ 25 °C
Operating temperature range	-20 to 50 °C
Driver	Integrated
Mains voltage	220-240V / 50-60 Hz
Inrush current	20 A at 100 µs
Optic	Wide beam
Optical cover	Front glass, transparent
Material	Housing: die-cast aluminum, painted Cover: glass, thermally hardened, 4 mm thick Reflector: anodized aluminum
Color	Grey aluminum, RAL9007
Connection	Prewired with H05RN-F-type cable 3 x 1 mm, length: 30 cm
Installation	Wall or surface mounting Max adjustment from the horizontal: -90 to 90° Max adjustment from the horizontal: -45 to 90° (MDU versions) Max vertical aiming: -180 to 180° Max SCx: 0.08 m
Accessories	Motion Detection Unit (MDU)