



# OptiVision LED gen2

**BVP525 1860/757 230V HGB DX50 D9 T25 100**

OptiVision LED gen2, LED High Brightness, 757 cool white, 230 V, Asymmetrical wide beam

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.

## Product data

| General Information      |                                                                                                                                                                                                                                                                                             |                                                                                               |                              |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------|
| Lamp family code         | LED-HB [LED High Brightness]                                                                                                                                                                                                                                                                | extreme ambient temperatures the luminaire might automatically dim down to protect components |                              |
| Light source replaceable | Yes                                                                                                                                                                                                                                                                                         | Light source engine type                                                                      | LED                          |
| Number of gear units     | 1 unit                                                                                                                                                                                                                                                                                      | Product family code                                                                           | BVP525 [OptiVision LED gen2] |
| Driver included          | Yes                                                                                                                                                                                                                                                                                         | Lighting Technology                                                                           | LED                          |
| Remarks                  | *-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value. * At | Value ladder                                                                                  | Specification                |
|                          |                                                                                                                                                                                                                                                                                             | CE mark                                                                                       | Yes                          |
|                          |                                                                                                                                                                                                                                                                                             | Warranty period                                                                               | 5 years                      |
|                          |                                                                                                                                                                                                                                                                                             | Flammability mark                                                                             | -                            |
|                          |                                                                                                                                                                                                                                                                                             | ENEC mark                                                                                     | ENEC mark                    |

## OptiVision LED gen2

|                   |     |
|-------------------|-----|
| EU RoHS compliant | Yes |
|-------------------|-----|

### Light Technical

|                                    |                          |
|------------------------------------|--------------------------|
| Upward light output ratio          | 0                        |
| Luminous Flux                      | 186,000 lm               |
| Standard tilt angle posttop        | -                        |
| Standard tilt angle side entry     | -                        |
| Correlated Color Temperature (Nom) | 5700 K                   |
| Luminous Efficacy (rated) (Nom)    | 112 lm/W                 |
| Color rendering index (CRI)        | ≥70                      |
| Light source color                 | 757 cool white           |
| Optical cover type                 | Polycarbonate bowl/cover |
| Luminaire light beam spread        | 90° x 136°               |
| Optic type outdoor                 | Asymmetrical wide beam   |

### Operating and Electrical

|                                          |                                   |
|------------------------------------------|-----------------------------------|
| Input Voltage                            | 230 V                             |
| Line Frequency                           | 50 Hz                             |
| Inrush current                           | 30 A                              |
| Inrush time                              | 16 ms                             |
| Power Consumption                        | 1,314 W                           |
| Power Factor (Fraction)                  | 0.95                              |
| Connection                               | Push-in connector and pull relief |
| Cable                                    | -                                 |
| Number of products on MCB of 16 A type B | -                                 |

### Temperature

|                           |               |
|---------------------------|---------------|
| Ambient temperature range | -40 to +50 °C |
|---------------------------|---------------|

### Controls and Dimming

|                               |                                                |
|-------------------------------|------------------------------------------------|
| Dimmable                      | Yes                                            |
| Driver/power unit/transformer | Power supply unit with DALI interface external |
| Control interface             | DALI                                           |
| Constant light output         | No                                             |

### Mechanical and Housing

|                        |                             |
|------------------------|-----------------------------|
| Housing Material       | Aluminum                    |
| Reflector material     | Polycarbonate               |
| Optic material         | Polycarbonate               |
| Optical cover material | Polycarbonate               |
| Fixation material      | Aluminum                    |
| Housing Color          | Aluminum                    |
| Mounting device        | Mounting bracket adjustable |

|                                     |                    |
|-------------------------------------|--------------------|
| Optical cover shape                 | Flat               |
| Optical cover finish                | Clear              |
| Overall length                      | 750 mm             |
| Overall width                       | 616 mm             |
| Overall height                      | 600 mm             |
| Effective projected area            | 0.39 m²            |
| Dimensions (Height x Width x Depth) | 600 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 until 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 100000 h | 10 % |
| Lumen maintenance at median useful life* 100000 h        | L80  |

### Application Conditions

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

### Product Data

|                                 |                                          |
|---------------------------------|------------------------------------------|
| Order product name              | BVP525 1860/757 230V HGB DX50 D9 T25 100 |
| Full product name               | BVP525 1860/757 230V HGB DX50 D9 T25 100 |
| Full product code               | 871869911610100                          |
| Order code                      | 11610100                                 |
| Material Nr. (12NC)             | 912300023823                             |
| Numerator - Quantity Per Pack   | 1                                        |
| EAN/UPC - Product/Case          | 8718699116101                            |
| Numerator - Packs per outer box | 1                                        |
| EAN/UPC - Case                  | 8718699116101                            |

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### Dimensional drawing

