



# Villa LED

## BDP765 LED50-4S/740 PSU II DS50 GF BK

VILLA LED, LED module 5000 lm, 740 neutral white, Power supply unit (On/Off), Safety class II, Distribution symmetrical 50, Glass frosted, Black

Villa LED retains the specific proportions and shape of the traditional four-sided luminaires originally used in 19th century Madrid. It allows a remarkable balance between performance and heritage preservation. Now widely used across the Iberian Peninsula, Villa LED is suitable for lighting historical environments and traditional towns and villages. Villa LED also allows municipalities to enjoy the benefits of the latest technologies developed by Philips Lighting, including the CityTouch connected lighting system. Villa LED is also equipped with dedicated light recipe that preserves a dark night sky.

### Product data

| General Information       |  |  |                    |
|---------------------------|--|--|--------------------|
| Lamp family code          | LED50 [LED module 5000 lm]   | 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                                | BDP765 [VILLA LED] |
| 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 extreme ambient temperatures the luminaire | CE mark  | Yes                |
|                           |  | Warranty period                                    | 5 years            |
|                           |  | Flammability mark                                  | -                  |
|                           |  | ENEC mark  | ENEC mark          |
|                           |  | EU RoHS compliant                                  | Yes                |
| Light Technical           |  |  |                    |
| Upward light output ratio | 0.03   |  |                    |
| Luminous Flux             | 2,600 lm   |  |                    |

## Villa LED

|                                    |                             |
|------------------------------------|-----------------------------|
| Standard tilt angle posttop        | 0°                          |
| Standard tilt angle side entry     | 0°                          |
| Correlated Color Temperature (Nom) | 4000 K                      |
| Luminous Efficacy (rated) (Nom)    | 85 lm/W                     |
| Color rendering index (CRI)        | ≥70                         |
| Number of light sources            | 30                          |
| Light source color                 | 740 neutral white           |
| Optical cover type                 | Glass frosted               |
| Luminaire light beam spread        | 152° x 155°                 |
| Optic type outdoor                 | Distribution symmetrical 50 |

### Operating and Electrical

|  |                 |
|--|-----------------|
| Input Voltage                            | 220 to 240 V    |
| Line Frequency                           | 50 to 60 Hz     |
| Inrush current                           | 46 A            |
| Inrush time                              | 0.25 ms         |
| Power Consumption                        | 30.5 W          |
| Power Factor (Fraction)                  | 0.94            |
| Connection                               | Screw connector |
| Cable                                    | -               |
| Number of products on MCB of 16 A type B | 9               |

### Temperature

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

### Controls and Dimming

|                               |                            |
|-------------------------------|----------------------------|
| Dimmable                      | No                         |
| Driver/power unit/transformer | Power supply unit (On/Off) |
| Constant light output         | No                         |

### Mechanical and Housing

|                        |                           |
|------------------------|---------------------------|
| Housing Material       | Aluminum                  |
| Reflector material     | Glass                     |
| Optic material         | Polymethyl methacrylate   |
| Optical cover material | Glass                     |
| Fixation material      | Aluminum                  |
| Housing Color          | Black                     |
| Mounting device        | Decorative frog version 1 |
| Optical cover shape    | Flat                      |
| Optical cover finish   | Frosted                   |

|                                     |                    |
|-------------------------------------|--------------------|
| Overall length                      | 440 mm             |
| Overall width                       | 440 mm             |
| Overall height                      | 764 mm             |
| Effective projected area            | 0.26 m²            |
| Dimensions (Height x Width x Depth) | 764 x 440 x 440 mm |

### Approval and Application

|  |  |
|--|--|
| Ingress protection code                | IP44 [Wire-protected, splash-proof]  |
| Mech. impact protection code           | IK09 [10 J]  |
| Surge Protection (Common/Differential) | Luminaire surge protection level until 10 kV differential mode and 10 kV common mode |
| Protection class IEC                   | Safety class II  |

### Initial Performance (IEC Compliant)

|                                       |                        |
|---------------------------------------|------------------------|
| Luminous flux tolerance               | +/-7%                  |
| Initial chromaticity                  | (0.381, 0.379) 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        | L94  |

### Application Conditions

|                                    |       |
|------------------------------------|-------|
| Performance ambient temperature Tq | 25 °C |
|------------------------------------|-------|

### Product Data

|                                 |                                       |
|---------------------------------|---------------------------------------|
| Order product name              | BDP765 LED50-4S/740 PSU II DS50 GF BK |
| Full product name               | BDP765 LED50-4S/740 PSU II DS50 GF BK |
| Full product code               | 871869908974000                       |
| Order code                      | 912300023464                          |
| Material Nr. (12NC)             | 912300023464                          |
| Numerator - Quantity Per Pack   | 1                                     |
| EAN/UPC - Product/Case          | 8718699089740                         |
| Numerator - Packs per outer box | 1                                     |
| EAN/UPC - Case                  | 8718699089740                         |

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### Dimensional drawing

