



# CitySphere

## BDP781 ECO50/740 PSDD II DS RB DGR DDF2

CITYSPHERE, LED EconomyLine 5000 lm, Distribution symmetrical, DynaDimmer with fixed presets version 2, Post-top for diameter 60 mm

At a time of rapidly changing social practices, every city is looking to be more attractive, welcoming, convenient and safe. CitySphere is a post-top ambiance LED luminaire designed to create a comfortable and pleasant atmosphere that puts the users of public spaces at ease. A slim, discreet presence during the day, it brings urban spaces to life at night. CitySphere delivers a visually comfortable volume of light and gives the city its own color signature. CitySphere comes with dedicated spigots, brackets and poles, enabling development planners, specifiers and decision makers to create a consistent urban identity and ambience.

### Product data

| General Information      |  |                           |   |
|--------------------------|--|---------------------------|---|
| Lamp family code         | ECO50 [LED EconomyLine 5000 lm]  | Product family code       | BDP781 [CITYSPHERE]                         |
| Light source replaceable | No   | Lighting Technology       | LED   |
| Number of gear units     | 1 unit   | Value ladder              | Specification                               |
| Driver included          | Yes  | Embedded control          | DynaDimmer with fixed presets version 2     |
| Photocell                | -  | CE mark                   | Yes   |
| 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. | Warranty period           | 3 years                                     |
|                          |  | Flammability mark         | For mounting on normally flammable surfaces |
|                          |  | ENEC mark                 | ENEC mark                                   |
|                          |  | Glow-wire test            | Temperature 650 °C, duration 5 s            |
|                          |  | EU RoHS compliant         | Yes   |
|                          |  | Light Technical           |   |
| Light source engine type | LED  | Upward light output ratio | 0.03  |

|                                    |                                       |
|------------------------------------|---------------------------------------|
| Luminous Flux                      | 3,825 lm                              |
| Standard tilt angle posttop        | 0°                                    |
| Standard tilt angle side entry     | 0°                                    |
| Correlated Color Temperature (Nom) | 4000 K                                |
| Luminous Efficacy (rated) (Nom)    | 87 lm/W                               |
| Color rendering index (CRI)        | 70                                    |
| Light source color                 | 740 neutral white                     |
| Optical cover type                 | Polycarbonate bowl/cover UV-resistant |
| Luminaire light beam spread        | 148° x 148°                           |
| Optic type outdoor                 | Distribution symmetrical              |

#### Operating and Electrical

|  |                          |
|--|--------------------------|
| Input Voltage                            | 220 to 240 V             |
| Line Frequency                           | 50 to 60 Hz              |
| Inrush current                           | 80 A                     |
| Inrush time                              | 0.15 ms                  |
| Power Consumption                        | 44 W                     |
| Power Factor (Fraction)                  | 0.9                      |
| Connection                               | Connection unit 2-pole   |
| Cable                                    | Cable 1.8 m without plug |
| Number of products on MCB of 16 A type B | 11                       |

#### Temperature

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

#### Controls and Dimming

|                               |                                   |
|-------------------------------|-----------------------------------|
| Dimmable                      | No                                |
| Driver/power unit/transformer | Power supply unit with DynaDimmer |
| 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          | Dark gray                   |
| Mounting device        | Post-top for diameter 60 mm |
| Optical cover shape    | Conical                     |

|                          |          |
|--------------------------|----------|
| Optical cover finish     | Ribbed   |
| Overall height           | 172 mm   |
| Overall diameter         | 661 mm   |
| Effective projected area | 0.343 m² |

#### Approval and Application

|  |  |
|--|--|
| Ingress protection code                | IP66 [Dust penetration-protected, jet-proof] |
| Mech. impact protection code           | IK10 [20 J vandal-resistant]                 |
| Surge Protection (Common/Differential) | Philips standard surge protection level      |
| 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 75000 h | 7.5 % |
| Lumen maintenance at median useful life* 75000 h        | L80   |

#### Application Conditions

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

#### Product Data

|                                 |   |
|---------------------------------|---|
| Order product name              | BDP781 ECO50/740 PSDD II DS RB DGR DDF2 |
| Full product name               | BDP781 ECO50/740 PSDD II DS RB DGR DDF2 |
| Full product code               | 871794317669400                         |
| Order code                      | 17669400                                |
| Material Nr. (12NC)             | 912300022716                            |
| Numerator - Quantity Per Pack   | 1                                       |
| EAN/UPC - Product/Case          | 8717943176694                           |
| Numerator - Packs per outer box | 1                                       |
| EAN/UPC - Case                  | 8717943176694                           |

Dimensional drawing

