



CitySphere

BDP781 ECO50/740 PSU II DS RB DGR 60P

CITYSPHERE, LED EconomyLine 5000 lm, Distribution symmetrical, 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] | Light source engine type | LED |
| Light source replaceable | No | Product family code | BDP781 [CITYSPHERE] |
| Number of gear units | 1 unit | Lighting Technology | LED |
| Driver included | Yes | Value ladder | Specification |
| Photocell | - | Embedded control | - |
| 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 might automatically dim down to protect components | CE mark | Yes |
| | | 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 | |
| | | 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

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|--|--------------------------|
| 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

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

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| 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)

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|---------------------------------------|------------------------|
| 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)

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|---|-------|
| Control gear failure rate at median useful life 75000 h | 7.5 % |
| Lumen maintenance at median useful life* 75000 h | L80 |

Application Conditions

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

Product Data

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|---------------------------------|---------------------------------------|
| Order product name | BDP781 ECO50/740 PSU II DS RB DGR 60P |
| Full product name | BDP781 ECO50/740 PSU II DS RB DGR 60P |
| Full product code | 871794317670000 |
| Order code | 17670000 |
| Material Nr. (12NC) | 912300022717 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8717943176700 |
| Numerator - Packs per outer box | 1 |
| EAN/UPC - Case | 8717943176700 |

Dimensional drawing

