



CitySphere

BDP780 GRN40/830/BL PSU DS RB GR CLO 76P

CitySphere, LED GreenLine 4000 lm, Distribution symmetrical, Constant light output, Post-top for diameter 76 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 | | Value ladder | | Specification | |
|--------------------------|--|--------------------------------|--|---|--|
| Lamp family code | GRN40 [LED GreenLine 4000 lm] | Embedded control | | Constant light output | |
| Light source replaceable | No | CE mark | | Yes | |
| Number of gear units | 2 units | Warranty period | | 3 years | |
| Driver included | Yes | Flammability mark | | For mounting on normally flammable surfaces | |
| Photocell | - | ENEC mark | | ENEC mark | |
| 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. | Glow-wire test | | Temperature 650 °C, duration 5 s | |
| Light source engine type | LED | EU RoHS compliant | | Yes | |
| Product family code | BDP780 [CitySphere] | Light Technical | | | |
| Lighting Technology | LED | Upward light output ratio | | 0.03 | |
| | | Luminous Flux | | 3,060 lm | |
| | | Standard tilt angle posttop | | 0° | |
| | | Standard tilt angle side entry | | 0° | |

| | |
|------------------------------------|---------------------------------------|
| Correlated Color Temperature (Nom) | 3000 K |
| Luminous Efficacy (rated) (Nom) | 83 lm/W |
| Color rendering index (CRI) | 80 |
| Light source color | 830 warm 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 |
| Initial CLO power consumption | 30 W |
| Average CLO power consumption | 33.5 W |
| End CLO power consumption | 37 W |
| Inrush current | 80 A |
| Inrush time | 0.15 ms |
| Power Consumption | 37 W |
| Power Factor (Fraction) | 0.9 |
| Connection | Connection unit 3-pole |
| Cable | Cable 1.8 m without plug |
| Number of products on MCB of 16 A type B | 11 |

Temperature

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|---------------------------|---------------|
| 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 | Yes |

Mechanical and Housing

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|------------------------|-----------------------------|
| Housing Material | Aluminum |
| Reflector material | Polycarbonate |
| Optic material | Polycarbonate |
| Optical cover material | Polycarbonate |
| Fixation material | Aluminum |
| Housing Color | Grey |
| Mounting device | Post-top for diameter 76 mm |
| Optical cover shape | Conical |

| | |
|--------------------------|----------|
| Optical cover finish | Ribbed |
| Overall height | 662 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 I |

Initial Performance (IEC Compliant)

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|---------------------------------------|------------------------|
| Luminous flux tolerance | +/-7% |
| Initial chromaticity | (0.410, 0.390) SDCM <3 |
| 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 100000 h | 10 % |
| Lumen maintenance at median useful life* L100 | 100000 h |

Application Conditions

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

Product Data

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|---------------------------------|--|
| Order product name | BDP780 GRN40/830/BL PSU DS RB GR CLO 76P |
| Full product name | BDP780 GRN40/830/BL PSU DS RB GR CLO 76P |
| Full product code | 871794317675500 |
| Order code | 912300022722 |
| Material Nr. (12NC) | 912300022722 |
| Numerator - Quantity Per Pack | 1 |
| EAN/UPC - Product/Case | 8717943176755 |
| Numerator - Packs per outer box | 1 |
| EAN/UPC - Case | 8717943176755 |

Dimensional drawing

