



CitySphere

BDP780 GRN40/830/BL PSU DS RB DGR CLO 90

CitySphere, LED GreenLine 4000 lm, Distribution symmetrical, Constant light output, Diameter 90 mm, posttop decorative

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 ambiance.

Product data

General Information		Value ladder	
Lamp family code	GRN40 [LED GreenLine 4000 lm]	Embedded control	Specification
Light source replaceable	No	CE mark	Constant light output
Number of gear units	2 units	Warranty period	Yes
Driver included	Yes	Flammability mark	3 years
Photocell	-	Flammability mark	For mounting on normally flammable surfaces
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.	ENEC mark	ENEC mark
Light source engine type	LED	Glow-wire test	Temperature 650 °C, duration 5 s
Product family code	BDP780 [CitySphere]	EU RoHS compliant	Yes
Lighting Technology	LED	Light Technical	
		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

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 7.0 m without plug
Number of products on MCB of 16 A type B	11

Temperature

Ambient temperature range	-40 to +50 °C
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Controls and Dimming

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

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	Diameter 90 mm, posttop decorative
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

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)

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)

Control gear failure rate at median useful life 100000 h	10 %
Lumen maintenance at median useful life* L100	100000 h

Application Conditions

Performance ambient temperature Tq	25 °C
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Product Data

Order product name	BDP780 GRN40/830/BL PSU DS RB DGR CLO 90
Full product name	BDP780 GRN40/830/BL PSU DS RB DGR CLO 90
Full product code	871794317676200
Order code	17676200
Material Nr. (12NC)	912300022723
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943176762
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943176762

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Dimensional drawing

