



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

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

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	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

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* 100000 h	L100

Application Conditions

Performance ambient temperature Tq	25 °C
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Product Data

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	17675500
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

