



# CitySphere

## BDP780 ECO120/740/GN PSD DM RB DGR D9 60

CitySphere, LED EconomyLine 12000 lm, Distribution medium, 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	ECO120 [LED EconomyLine 12000 lm]	Light source engine type	LED
Light source replaceable	No	Product family code	BDP780 [CitySphere]
Number of gear units	2 units	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	9,600 lm

Standard tilt angle posttop	0°
Standard tilt angle side entry	0°
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	90 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 88°
Optic type outdoor	Distribution medium

#### Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	70 A
Inrush time	0.19 ms
Power Consumption	107 W
Power Factor (Fraction)	0.9
Connection	Connection unit 5-pole
Cable	Cable 1.8 m without plug
Number of products on MCB of 16 A type B	9

#### Temperature

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

Dimmable	Yes
Driver/power unit/transformer	Power supply unit with DALI interface
Control interface	DALI
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	662 mm
Overall diameter	661 mm
Effective projected area	0.343 m <sup>2</sup>

#### 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	(0.381, 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
Maximum dim level	10%

#### Product Data

Order product name	BDP780 ECO120/740/GN PSD DM RB DGR D9 60
Full product name	BDP780 ECO120/740/GN PSD DM RB DGR D9 60
Full product code	871794317688500
Order code	17688500
Material Nr. (12NC)	912300022735
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943176885
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943176885

Dimensional drawing

