



# CitySphere

## BDP780 ECO120/740 PSD DM CL DGR D9 60P

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 colour 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		Lighting Technology	
Lamp family code	ECO120 [LED EconomyLine 12000 lm]	Value ladder	Specification
Light source replaceable	No	Embedded control	-
Number of gear units	Unit	CE mark	Yes
Driver included	Yes	Warranty period	3 years
Photocell	-	Flammability mark	For mounting on normally flammable surfaces
Remarks	*- According to the Lighting Europe guidance paper 'Evaluating performance of LED based luminaires – January 2018': statistically there is no relevant difference in lumen maintenance between the B50 and, for example, the 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
		Light Technical	
		Upwards light output ratio	0.03
		Luminous Flux	9,816 lm
		Standard tilt angle post-top	0°

Standard tilt angle side entry	0°
Correlated Colour Temperature	4000 K
Luminous efficacy (rated) (nom.)	92 lm/W
Colour rendering index (CRI)	70
Light source colour	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	Aluminium
Reflector material	Polycarbonate
Optic material	Polycarbonate
Optical cover/lens material	Polycarbonate
Fixation material	Aluminium
Housing Colour	Dark grey
Mounting device	Post-top for diameter 60 mm
Optical cover/lens shape	Conical
Optical cover/lens finish	Clear

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	(0.381, 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 50,000 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 PSD DM CL DGR D9 60P
Full product name	BDP780 ECO120/740 PSD DM CL DGR D9 60P
Full EOC	871794317689200
Order code	17689200
Material no. (12 NC)	912300022736
SAP numerator – quantity per pack	1
EAN/UPC – Product/Case	8717943176892
Numerator – packs per outer box	1
EAN/UPC – Case	8717943176892

Dimensional drawing

