PHILIPS Lighting



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 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 replaceable	No
Number of gear units	1 unit
Driver included	Yes
Photocell	-
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

Light source engine type	LED
Product family code	BDP780 [CitySphere]
Lighting Technology	LED
Value ladder	Specification
Embedded control	-
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	9,816 lm

CitySphere

Standard tilt angle posttop	0°
Standard tilt angle side entry	0°
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	92 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

Overall height	662 mm
Overall diameter	661 mm
Effective projected area	0.343 m²
Approval and Application	

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

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	9

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Temperat	ure
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Ambient temperature range

Dimmable Yes Driver/power unit/transformer Power supply unit with DALI interface	Controls and Dimming	
Driver/power unit/transformer Power supply unit with DALI interface	Dimmable	Yes
	Driver/power unit/transformer	Power supply unit with DALI interface
Control interface DALI	Control interface	DALI
Constant light output No	Constant light output	No

-40 to +50 °C

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	Clear

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 7.5 % life 75000 h Lumen maintenance at median useful L80 life* 75000 h

Application Conditions

Performance ambient temperature Tq	25 ℃
Maximum dim level	10%

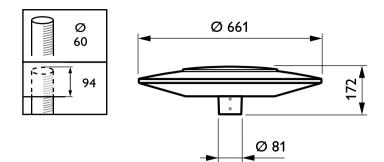
Product Data

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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 product code	871794317624300
Order code	17624300
Material Nr. (12NC)	912300022670
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943176243
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943176243

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Dimensional drawing





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