



CitySphere

BDP781 ECO50/740 PSDD II DS RB DGR DDF2

CITYSPHERE, LED EconomyLine 5000 lm, Distribution
symmetrical, DynaDimmer with fixed presets version 2, 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		Product family code	BDP781 [CITYSPHERE]
Lamp family code	ECO50 [LED EconomyLine 5000 lm]	Lighting Technology	LED
Light source replaceable	No	Value ladder	Specification
Number of gear units	1 unit	Embedded control	DynaDimmer with fixed presets version 2
Driver included	Yes	CE mark	Yes
Photocell	-	Warranty period	3 years
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.	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	
Light source engine type	LED	Upward light output ratio	0.03

Luminous Flux	3,825 lm
Standard tilt angle posttop	0°
Standard tilt angle side entry	0°
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	87 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 148°
Optic type outdoor	Distribution symmetrical

Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	80 A
Inrush time	0.15 ms
Power Consumption	44 W
Power Factor (Fraction)	0.9
Connection	Connection unit 2-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 with DynaDimmer
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	172 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 II

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
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Product Data

Order product name	BDP781 ECO50/740 PSDD II DS RB DGR DDF2
Full product name	BDP781 ECO50/740 PSDD II DS RB DGR DDF2
Full product code	871794317669400
Order code	912300022716
Material Nr. (12NC)	912300022716
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943176694
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943176694

Dimensional drawing

