



# CitySphere

## BDP781 ECO50/740 PSDD II DW RB DGR DDF2

CITYSPHERE, LED EconomyLine 5000 lm, Distribution wide, 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			
Lamp family code	ECO50 [LED EconomyLine 5000 lm]	might automatically dim down to protect components	
Light source replaceable	No	Light source engine type	LED
Number of gear units	1 unit	Product family code	BDP781 [CITYSPHERE]
Driver included	Yes	Lighting Technology	LED
Photocell	-	Value ladder	Specification
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	Embedded control	DynaDimmer with fixed presets version 2
		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	4,025 lm
Standard tilt angle posttop	0°
Standard tilt angle side entry	0°
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	91 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 106°
Optic type outdoor	Distribution wide

**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 11 B	

**Temperature**

Ambient temperature range	-40 to +50 °C
---------------------------	---------------

**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
------------------------------------	-------

**Product Data**

Order product name	BDP781 ECO50/740 PSDD II DW RB DGR DDF2
Full product name	BDP781 ECO50/740 PSDD II DW RB DGR DDF2
Full product code	871794317667000
Order code	912300022714
Material Nr. (12NC)	912300022714
Numerator - Quantity Per Pack	1
EAN/UPC - Product/Case	8717943176670
Numerator - Packs per outer box	1
EAN/UPC - Case	8717943176670

Dimensional drawing

