



CitySphere – creating an appealing, comfortable atmosphere with its own color signature

CitySphere

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.

Benefits

- Creates an appealing, comfortable atmosphere
- Brings cities to life at night with a touch of color
- Complete lighting solution ensuring a consistent and distinctive identity (color ring)

Features

- Visual comfort perception and a possible color signature, creating a distinctive atmosphere
- Energy-efficient
- Excellent light quality over lifetime
- Dedicated spigots, single and double-arm brackets, and masts (height of 4 to 5 meters)

Application

- Urban streets
- Side and residential streets
- Pedestrian and cycle paths
- Squares and parks

Specifications

Type	BDP780 (version with white ring 1, 56 LEDs) BDP781 (version with white ring 2, 28 LEDs) BDP782 (version with white ring 3, 16 LEDs)
Light source	Integral LED-module
Power	14 to 115 W
Luminous flux	GreenLine: 1148 to 5810 lm EconomyLine: 1985 to 9816 lm
Luminaire efficacy	Up to 89 lm/W (3000 K, warm white) Up to 107 lm/W (4000 K, neutral white)
Correlated Color Temperature	3000 or 4000 K
Color Rendering Index	80 (3000 K, warm white) 70 (4000 K, neutral white)
Lumen maintenance at median useful life* 100000 h	GreenLine: min L80
Lumen maintenance at median useful life* 75000 h	EconomyLine: min L80
Control gear failure rate at median useful life 100000 h	GreenLine: 10%
Control gear failure rate at median useful life 75000 h	EconomyLine: 7.5%
Performance Ambient Temperature Tq	+25 °C
Operating temperature range	-20 to 35 °C

Driver	Philips Xitanium Driver
Mains voltage	220-240 V / 50-60 Hz
Controls system input	1-10 V and DALI
Dimming	LumiStep 6, 7, 8 or 10 hours DynaDimmer AmpDim SDU External dimming 1-10 V CityTouch (not available for CitySphere with color ring)
Options	Color ring Surge protection (SGR)
Optic	Distribution street pedestrian (DSP), medium (DM), wide (DW) or symmetrical (DS)
Optical element	PMMA lenses
Optical cover	UV-stabilised polycarbonate bowl, clear or ribbed shade
Material	Housing: high-pressure aluminum Adapting piece: die-cast aluminum LED module: extruded aluminum Optic: PMMA lenses
Color	Philips ultra dark grey 10714 Other RAL or AKZO Futura colors available on request
Connection	Push-in connector 5-pole (IP66)
Maintenance	Control gear access after opening 4 screws
Installation	Basic spigot Ø 60 or 76 mm (60P, 76P) or decorative spigot (90PD) Recommended mounting height: 4-6 m Max SCx: 0.1 m ² Dedicated poles and brackets available for different mounting possibilities

Versions



CitySphere BDP780/781/782 with basic spigot and clear bowl



CitySphere BDP780/781/782 with basic spigot and ribbed bowl



CitySphere BDP780/781/782 with decorative spigot and ribbed bowl



CitySphere BDP780/781/782 with decorative spigot and clear bowl

Product details



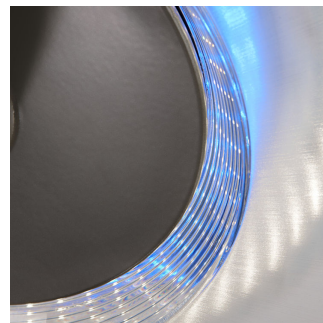
White and color ring



Basic spigot



Close-up of aluminum used for housing



Close-up of bowl interior

Product details



Access to driver compartment



White and color ring



White and color ring



Decorative spigot

Approval and Application

Mech. impact protection code	IK10
Surge Protection (Common/Differential)	Philips standard surge protection level

General Information

CE mark	CE mark
Optical cover/lens type	Polycarbonate bowl/cover UV-resistant
Driver included	Yes
ENEC mark	ENEC mark
Flammability mark	For mounting on normally flammable surfaces
Glow-wire test	Temperature 650 °C, duration 5 s
Light source replaceable	No

Light Technical

Standard tilt angle side entry	0°
Standard tilt angle posttop	0°
Upward light output ratio	0.03

Application Conditions

Order Code	Full Product Name	Maximum dim level
912300022670	BDP780 ECO120/740 PSD DM CL DGR D9 60P	10%
912300022679	BDP780 GRN60/830 PSU DS RB DGR CLO 60P	-
912300022683	BDP780 GRN60/740 PSU DS RB DGR CLO 60P	-
912300022691	BDP781 GRN30/740 PSU DS RB DGR CLO 60P	-
912300022709	BDP780 GRN60/740 PSU II DW RB DGR 76P	-
912300022714	BDP781 ECO50/740 PSDD II DW RB DGR DDF2	-
912300022715	BDP781 ECO50/740 PSU II DW RB DGR 60P	-
912300022717	BDP781 ECO50/740 PSU II DS RB DGR 60P	-
912300022720	BDP780 GRN30/740/BL PSU DS RB GR CLO 76P	-
912300022735	BDP780 ECO120/740/GN PSD DM RB DGR D9 60	10%
912300022742	BDP781 GRN25/740/BL PSU II DM RB DGR CLO	-
912300022730	BDP782 ECO30/830/GN PSDD II DM RB DGR DD	-
912300022747	BDP782 GRN15/740/RD PSDD II DS CL DGR DD	-

Controls and Dimming

Order Code	Full Product Name	Dimmable
912300022670	BDP780 ECO120/740 PSD DM CL DGR D9 60P	Yes
912300022679	BDP780 GRN60/830 PSU DS RB DGR CLO 60P	No
912300022683	BDP780 GRN60/740 PSU DS RB DGR CLO 60P	No
912300022691	BDP781 GRN30/740 PSU DS RB DGR CLO 60P	No
912300022709	BDP780 GRN60/740 PSU II DW RB DGR 76P	No
912300022714	BDP781 ECO50/740 PSDD II DW RB DGR DDF2	No
912300022715	BDP781 ECO50/740 PSU II DW RB DGR 60P	No

Order Code	Full Product Name	Dimmable
912300022717	BDP781 ECO50/740 PSU II DS RB DGR 60P	No
912300022720	BDP780 GRN30/740/BL PSU DS RB GR CLO 76P	No
912300022735	BDP780 ECO120/740/GN PSD DM RB DGR D9 60	Yes
912300022742	BDP781 GRN25/740/BL PSU II DM RB DGR CLO	No
912300022730	BDP782 ECO30/830/GN PSDD II DM RB DGR DD	No
912300022747	BDP782 GRN15/740/RD PSDD II DS CL DGR DD	No

General Information (1/2)

Order Code	Full Product Name	Luminaire light beam spread	Light source color	Lamp family code	Number of gear units
912300022670	BDP780 ECO120/740 PSD DM CL DGR D9 60P	148° x 88°	740 neutral white	ECO120	1 unit
912300022679	BDP780 GRN60/830 PSU DS RB DGR CLO 60P	148° x 148°	830 warm white	GRN60	1 unit
912300022683	BDP780 GRN60/740 PSU DS RB DGR CLO 60P	148° x 148°	740 neutral white	GRN60	1 unit
912300022691	BDP781 GRN30/740 PSU DS RB DGR CLO 60P	148° x 148°	740 neutral white	GRN30	1 unit
912300022709	BDP780 GRN60/740 PSU II DW RB DGR 76P	148° x 106°	740 neutral white	GRN60	1 unit
912300022714	BDP781 ECO50/740 PSDD II DW RB DGR DDF2	148° x 106°	740 neutral white	ECO50	1 unit
912300022715	BDP781 ECO50/740 PSU II DW RB DGR 60P	148° x 106°	740 neutral white	ECO50	1 unit

Order Code	Full Product Name	Luminaire light beam spread	Light source color	Lamp family code	Number of gear units
912300022717	BDP781 ECO50/740 PSU II DS RB DGR 60P	148° x 148°	740 neutral white	ECO50	1 unit
912300022720	BDP780 GRN30/740/BL PSU DS RB GR CLO 76P	148° x 148°	740 neutral white	GRN30	2 units
912300022735	BDP780 ECO120/740/GN PSD DM RB DGR D9 60	148° x 88°	740 neutral white	ECO120	2 units
912300022742	BDP781 GRN25/740/BL PSU II DM RB DGR CLO	148° x 88°	740 neutral white	GRN25	2 units
912300022730	BDP782 ECO30/830/GN PSDD II DM RB DGR DD	148° x 88°	830 warm white	ECO30	2 units
912300022747	BDP782 GRN15/740/RD PSDD II DS CL DGR DD	148° x 148°	740 neutral white	GRN15	2 units

General Information (2/2)

Order Code	Full Product Name	Optic type	Product Family Code
912300022670	BDP780 ECO120/740 PSD DM CL DGR D9 60P	Distribution medium	BDP780
912300022679	BDP780 GRN60/830 PSU DS RB DGR CLO 60P	Distribution symmetrical	BDP780
912300022683	BDP780 GRN60/740 PSU DS RB DGR CLO 60P	Distribution symmetrical	BDP780
912300022691	BDP781 GRN30/740 PSU DS RB DGR CLO 60P	Distribution symmetrical	BDP781
912300022709	BDP780 GRN60/740 PSU II DW RB DGR 76P	Distribution wide	BDP780

Order Code	Full Product Name	Optic type	Product Family Code
912300022714	BDP781 ECO50/740 PSDD II DW RB DGR DDF2	Distribution wide	BDP781
912300022715	BDP781 ECO50/740 PSU II DW RB DGR 60P	Distribution wide	BDP781
912300022717	BDP781 ECO50/740 PSU II DS RB DGR 60P	Distribution symmetrical	BDP781
912300022720	BDP780 GRN30/740/BL PSU DS RB GR CLO 76P	Distribution symmetrical	BDP780
912300022735	BDP780 ECO120/740/GN PSD DM RB DGR D9 60	Distribution medium	BDP780

Order Code	Full Product Name	Optic type	Product Family Code
912300022742	BDP781 GRN25/740/BL PSU II DM RB DGR CLO	Distribution medium	BDP781
912300022730	BDP782 ECO30/830/GN PSDD II DM RB DGR DD	Distribution medium	BDP782

Order Code	Full Product Name	Optic type	Product Family Code
912300022747	BDP782 GRN15/740/RD PSDD II DS CL DGR DD	Distribution symmetrical	BDP782

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
912300022670	BDP780 ECO120/740 PSD DM CL DGR D9 60P	4000 K	70	9816 lm
912300022679	BDP780 GRN60/830 PSU DS RB DGR CLO 60P	3000 K	80	4590 lm
912300022683	BDP780 GRN60/740 PSU DS RB DGR CLO 60P	4000 K	70	4590 lm
912300022691	BDP781 GRN30/740 PSU DS RB DGR CLO 60P	4000 K	70	2295 lm
912300022709	BDP780 GRN60/740 PSU II DW RB DGR 76P	4000 K	70	4830 lm
912300022714	BDP781 ECO50/740 PSDD II DW RB DGR DDF2	4000 K	70	4025 lm
912300022715	BDP781 ECO50/740 PSU II DW RB DGR 60P	4000 K	70	4025 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
912300022717	BDP781 ECO50/740 PSU II DS RB DGR 60P	4000 K	70	3825 lm
912300022720	BDP780 GRN30/740/BL PSU DS RB GR CLO 76P	4000 K	70	2295 lm
912300022735	BDP780 ECO120/740/GN PSD DM RB DGR D9 60	4000 K	70	9600 lm
912300022742	BDP781 GRN25/740/BL PSU II DM RB DGR CLO	4000 K	70	2000 lm
912300022730	BDP782 ECO30/830/GN PSDD II DM RB DGR DD	3000 K	80	2400 lm
912300022747	BDP782 GRN15/740/RD PSDD II DS CL DGR DD	4000 K	70	1191 lm

Mechanical and Housing

Order Code	Full Product Name	Color
912300022670	BDP780 ECO120/740 PSD DM CL DGR D9 60P	Dark gray
912300022679	BDP780 GRN60/830 PSU DS RB DGR CLO 60P	Dark gray
912300022683	BDP780 GRN60/740 PSU DS RB DGR CLO 60P	Dark gray
912300022691	BDP781 GRN30/740 PSU DS RB DGR CLO 60P	Dark gray
912300022709	BDP780 GRN60/740 PSU II DW RB DGR 76P	Dark gray
912300022714	BDP781 ECO50/740 PSDD II DW RB DGR DDF2	Dark gray
912300022715	BDP781 ECO50/740 PSU II DW RB DGR 60P	Dark gray

Order Code	Full Product Name	Color
912300022717	BDP781 ECO50/740 PSU II DS RB DGR 60P	Dark gray
912300022720	BDP780 GRN30/740/BL PSU DS RB GR CLO 76P	Gray
912300022735	BDP780 ECO120/740/GN PSD DM RB DGR D9 60	Dark gray
912300022742	BDP781 GRN25/740/BL PSU II DM RB DGR CLO	Dark gray
912300022730	BDP782 ECO30/830/GN PSDD II DM RB DGR DD	Dark gray
912300022747	BDP782 GRN15/740/RD PSDD II DS CL DGR DD	Dark gray

