



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

Features

Application

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 m²
	Dedicated poles and brackets available for different mounting possibilities

Versions



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

Approval and Application

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

General Information

CE mark	CE mark
Driver included	Yes
Flammability mark	-
Light source replaceable	No
Number of gear units	1 unit
Service tag	Yes

Light Technical

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

Application Conditions

Order Code	Full Product Name	Maximum dim level
912300024490	BDP780 LED60/830 PSU DS RB DGR CLO 60P	-
912300024492	BDP781 LED40/740 PSU DS RB DGR CLO 60P	-
912300024493	BDP780 LED60/740 PSU II DW RB DGR 76P	-
912300024494	BDP781 LED50/740 PSDD II DW RB DGR DDF2	20%
912300024495	BDP781 LED50/740 PSU II DW RB DGR 60P	-
912300024496	BDP781 LED50/740 PSU II DS RB DGR 60P	-
912300024497	BDP780 LED40/740/BL PSU DS RB GR CLO 76P	-
912300024498	BDP780 LED120/740/GN PSD DM RB DGR D9 60	20%
912300024499	BDP781 LED40/740/BL PSU II DM RB DGR CLO	-
912300024501	BDP782 LED30/830/GN PSDD II DM RB DGR DD	20%
912300024502	BDP782 LED20/740/RD PSDD II DS CL DGR DD	20%

Controls and Dimming

Order Code	Full Product Name	Dimmable
912300024490	BDP780 LED60/830 PSU DS RB DGR CLO 60P	No
912300024492	BDP781 LED40/740 PSU DS RB DGR CLO 60P	No
912300024493	BDP780 LED60/740 PSU II DW RB DGR 76P	No
912300024494	BDP781 LED50/740 PSDD II DW RB DGR DDF2	Yes
912300024495	BDP781 LED50/740 PSU II DW RB DGR 60P	No
912300024496	BDP781 LED50/740 PSU II DS RB DGR 60P	No

Order Code	Full Product Name	Dimmable
912300024497	BDP780 LED40/740/BL PSU DS RB GR CLO 76P	No
912300024498	BDP780 LED120/740/GN PSD DM RB DGR D9 60	Yes
912300024499	BDP781 LED40/740/BL PSU II DM RB DGR CLO	No
912300024501	BDP782 LED30/830/GN PSDD II DM RB DGR DD	Yes
912300024502	BDP782 LED20/740/RD PSDD II DS CL DGR DD	Yes

General Information (1/2)

Order Code	Full Product Name	Luminaire light beam spread	Light source color	Optical cover/ lens type	Lamp family code
912300024490	BDP780 LED60/830 PSU DS RB DGR CLO 60P	148° x 148°	830 warm white	Polycarbonate bowl/cover structured	LED60
912300024492	BDP781 LED40/740 PSU DS RB DGR CLO 60P	148° x 148°	740 neutral white	Polycarbonate bowl/cover structured	LED40
912300024493	BDP780 LED60/740 PSU II DW RB DGR 76P	148° x 106°	740 neutral white	Polycarbonate bowl/cover structured	LED60
912300024494	BDP781 LED50/740 PSDD II DW RB DGR DDF2	148° x 106°	740 neutral white	Polycarbonate bowl/cover structured	LED50
912300024495	BDP781 LED50/740 PSU II DW RB DGR 60P	148° x 106°	740 neutral white	Polycarbonate bowl/cover structured	LED50

Order Code	Full Product Name	Luminaire light beam spread	Light source color	Optical cover/ lens type	Lamp family code
912300024496	BDP781 LED50/740 PSU II DS RB DGR 60P	148° x 148°	740 neutral white	Polycarbonate bowl/cover structured	LED50
912300024497	BDP780 LED40/740/BL PSU DS RB GR CLO 76P	148° x 148°	740 neutral white	Polycarbonate bowl/cover structured	LED40
912300024498	BDP780 LED120/740/GN PSD DM RB DGR D9 60	148° x 88°	740 neutral white	Polycarbonate bowl/cover structured	LED120
912300024499	BDP781 LED40/740/BL PSU II DM RB DGR CLO	148° x 88°	740 neutral white	Polycarbonate bowl/cover structured	LED40
912300024501	BDP782 LED30/830/GN	148° x 88°	830 warm white	Polycarbonate bowl/cover structured	LED30

Order Code	Full Product Name	Luminaire light beam spread	Light source color	Optical cover/ lens type	Lamp family code
	PSDD II DM RB DGR DD				
912300024502	BDP782 LED20/740/RD PSDD II DS CL DGR DD	148° x 148°	740 neutral white	Polycarbonate bowl/cover clear	LED20

General Information (2/2)

Order Code	Full Product Name	Optic type	Product Family Code
912300024490	BDP780 LED60/830 PSU DS RB DGR CLO 60P	Distribution symmetrical	BDP780
912300024492	BDP781 LED40/740 PSU DS RB DGR CLO 60P	Distribution symmetrical	BDP781
912300024493	BDP780 LED60/740 PSU II DW RB DGR 76P	Distribution wide	BDP780
912300024494	BDP781 LED50/740 PSDD II DW RB DGR DDF2	Distribution wide	BDP781
912300024495	BDP781 LED50/740 PSU II DW RB DGR 60P	Distribution wide	BDP781
912300024496	BDP781 LED50/740 PSU II DS RB DGR 60P	Distribution symmetrical	BDP781

Order Code	Full Product Name	Optic type	Product Family Code
912300024497	BDP780 LED40/740/BL PSU DS RB GR CLO 76P	Distribution symmetrical	BDP780
912300024498	BDP780 LED120/740/GN PSD DM RB DGR D9 60	Distribution medium	BDP780
912300024499	BDP781 LED40/740/BL PSU II DM RB DGR CLO	Distribution medium	BDP781
912300024501	BDP782 LED30/830/GN PSDD II DM RB DGR DD	Distribution medium	BDP782
912300024502	BDP782 LED20/740/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
912300024490	BDP780 LED60/830 PSU DS RB DGR CLO 60P	3000 K	≥80	4466 lm
912300024492	BDP781 LED40/740 PSU DS RB DGR CLO 60P	4000 K	≥70	3003 lm
912300024493	BDP780 LED60/740 PSU II DW RB DGR 76P	4000 K	≥70	4860 lm
912300024494	BDP781 LED50/740 PSDD II DW RB DGR DDF2	4000 K	≥70	4050 lm
912300024495	BDP781 LED50/740 PSU II DW RB DGR 60P	4000 K	≥70	4050 lm
912300024496	BDP781 LED50/740 PSU II DS RB DGR 60P	4000 K	≥70	3850 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
912300024497	BDP780 LED40/740/BL PSU DS RB GR CLO 76P	4000 K	≥70	3003 lm
912300024498	BDP780 LED120/740/GN PSD DM RB DGR D9 60	4000 K	≥70	9480 lm
912300024499	BDP781 LED40/740/BL PSU II DM RB DGR CLO	4000 K	≥70	3120 lm
912300024501	BDP782 LED30/830/GN PSDD II DM RB DGR DD	3000 K	≥80	2400 lm
912300024502	BDP782 LED20/740/RD PSDD II DS CL DGR DD	4000 K	≥70	1580 lm

Mechanical and Housing

Order Code	Full Product Name	Color
912300024490	BDP780 LED60/830 PSU DS RB DGR CLO 60P	Dark gray
912300024492	BDP781 LED40/740 PSU DS RB DGR CLO 60P	Dark gray

Order Code	Full Product Name	Color
912300024493	BDP780 LED60/740 PSU II DW RB DGR 76P	Dark gray
912300024494	BDP781 LED50/740 PSDD II DW RB DGR DDF2	Dark gray

Order Code	Full Product Name	Color
912300024495	BDP781 LED50/740 PSU II DW RB DGR 60P	Dark gray
912300024496	BDP781 LED50/740 PSU II DS RB DGR 60P	Dark gray
912300024497	BDP780 LED40/740/BL PSU DS RB GR CLO 76P	Gray
912300024498	BDP780 LED120/740/GN PSD DM RB DGR D9 60	Dark gray

Order Code	Full Product Name	Color
912300024499	BDP781 LED40/740/BL PSU II DM RB DGR CLO	Dark gray
912300024501	BDP782 LED30/830/GN PSDD II DM RB DGR DD	Dark gray
912300024502	BDP782 LED20/740/RD PSDD II DS CL DGR DD	Dark gray

