



CityCharm Cone - Combining visual comfort and performance

CityCharm Cone

The CityCharm range is designed for use in urban areas where comfortable lighting, ambiance and design play an important role. It offers two iconic, timeless designs (Cordoba and Cone) and various accessories, enabling you to create a lighting solution that carries your signature, both by day and by night. CityCharm provides high visual comfort while maintaining excellent performance. It offers a choice of two innovative new Philips Lighting technologies: GentleBeam, which maximizes visual comfort, or ClearGuide, which optimizes vertical illumination and visual guidance. A variety of dedicated brackets and masts enables you to reshape your residential areas and city centers in the most elegant way imaginable. Further information about GentleBeam and ClearGuide technology can be found in the Product Guide.

Benefits

- Elegant iconic range delivering comfortable lighting with GentleBeam or ClearGuide technology
- Excellent lighting performance and high quality of product and finishing
- Suitable for both renovation projects and new installations thanks to dedicated brackets and poles
- Equipped with Service tag, a QR-based identification system that makes each luminaire uniquely identifiable and provides maintenance, installation and spare part information

Features

- Choice of luminaire shapes, color effects, and dedicated poles and brackets
- Diffusing tools to create visual comfort and colored parts to enhance ambiance
- A broad range of lumen outputs and optics to ensure maximum efficiency at all lighting levels
- Optimized total cost of ownership
- Compatible with all standard and advanced Philips lighting systems and CityTouch-ready
- Easy on-site maintenance of the driver

Application

- Residential areas
- Footpaths and cycle lanes
- Parks and boulevards

Specifications

Type	BDS491
Light source	Build-in LED-module
Power	Standard version: 10-82 W (3000 K), 9-75 W (4000 K) ClearGuide version: 18-33 W (3000 K), 16-32 W (4000 K)
Luminous flux	Standard version: 1100-7400 lm (3000 K), 1100-7450 lm (4000 K) ClearGuide version: 1700-3200 lm (3000 K); 1650-2800 lm (4000 K)
Luminaire efficacy	Standard version: Up to 120 lm/W (3000 K), Up to 130 lm/W (4000 K) ClearGuide version: Up to 95 lm/W (3000 K), Up to 108 lm/W (4000 K)
Correlated Color Temperature	Standard version: 3000 K, warm white (WW), 4000 K, neutral white (NW) ClearGuide version: 3000 K, warm white (WW), 4000 K, neutral white (NW)
Color Rendering Index	Standard version: ≥ 80 (3000 K), ≥ 70 (4000 K) ClearGuide version: ≥ 70 (3000 K), ≥ 70 (4000 K)
Maintenance of lumen output - L80B10	100,000 hours
Operating temperature range	-20 to +35 °C
Driver	Built-in (self ballasted LED-module)
Mains voltage	220-240 V / 50-60 Hz
Inrush current	Standard version: 28 A / 150 μ s (27 W Xitanium driver), 27 A / 150 μ s (40 W Xitanium driver), 80 A / 150 μ s (100 W Xitanium driver) ClearGuide version: 27 A / 150 μ s (40 W Xitanium driver)

Dimming	DynaDimmer LumiStep CLO
Controls system input	DALI
Options	Photocell: Minicell, 35, 55, 70 lux
Optic	Standard version: Distribution medium (DM), wide (DW), vertical (DV), symmetrical (S), asymmetrical (A) ClearGuide version: Distribution symmetrical (S), a-symmetrical (A)
Optical element	For standard version a louver is available
Optical cover	For standard version two diffusing plates are available: Standard diffusing plate and GentleBeam diffusing plate
Material	Housing: high-pressure die-cast aluminum, non corrosive Bowl: polycarbonate, reinforced against UV
Color	Housing: Philips ultra-dark grey (close to RAL 7022, fine textured color) Other RAL and AKZO Futura colors available on request
Maintenance	Easy access to the driver from the top, 3 screws
Installation	Post-top mounting: \varnothing 60-76 mm, two screws Recommended mounting height: 4-6 m Max SCx: 0.1155 m
Accessories	JDP490 (CityCharm post-top bracket) JPP490 (CityCharm bracket) YHM490 (CityCharm pole)

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Versions



CityCharm Cone BDS491 urban-lighting luminaire with ClearGuide



CityCharm Cone BDS491 urban-lighting luminaire with dark grey inner part and 'gentle beam' diffusing plate



CityCharm Cone BDS491 urban-lighting luminaire, with dark grey inner part and without the standard diffusing plate.

Product details



CityCharm_Cordoba_Cone-BDS490_BDS491_DGR-DP02.tif



CityCharm_Cone-BDS491_DGR-DP03.tif

Application Conditions	
Maximum dim level	Not applicable
Approval and Application	
Mech. impact protection code	IK10
Controls and Dimming	
Dimmable	No
General Information	
Luminaire light beam spread	360°
CE mark	CE mark
Optical cover/lens type	Polycarbonate bowl/cover
Driver included	Yes
Flammability mark	-
Light source replaceable	Yes
Number of gear units	1 unit
Product Family Code	BDS491
Light Technical	
Standard tilt angle side entry	0°
Standard tilt angle posttop	0°
Mechanical and Housing	
Color	Gray

Order Code	Full Product Name	Driver failure rate at 5000 h
910505017426	BDS491 CG25-/740 II S GR D11 76	0.05 %
910505017431	BDS491 CG25-/740 II A GR H07RN-PX1.5 60	0.05 %
910505017432	BDS491 CG25-/730 II S GR 60	0.05 %
912300024684	BDS491 LED100-/740 I DM GRB DF-S GR CLO	-
912300024685	BDS491 LED10-/740 I DM GRB DF-S GR CLO S	-
912300024721	BDS491 LED40/730 PSU I DW DF-S GR H07 60	-
912300024687	BDS491 LED70-/830 I S GRB GR 60	-
912300024693	BDS491 LED30-/830 II DM GRB GR 60	-
912300024719	BDS491 LED20/722 PSU II DM GRB GR H07 60	-

Approval and Application

Order Code	Full Product Name	Surge Protection (Common/Differential)
910505017426	BDS491 CG25-/740 II S GR D11 76	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
910505017431	BDS491 CG25-/740 II A GR H07RN-PX1.5 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
910505017432	BDS491 CG25-/730 II S GR 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
912300024684	BDS491 LED100-/740 I DM GRB DF-S GR CLO	Luminaire surge protection level until 10 kV differential mode and 10 kV common mode
912300024685	BDS491 LED10-/740 I DM GRB DF-S GR CLO S	Luminaire surge protection level until 10 kV differential mode and 10 kV common mode

Order Code	Full Product Name	Surge Protection (Common/Differential)
912300024721	BDS491 LED40/730 PSU I DW DF-S GR H07 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
912300024687	BDS491 LED70-/830 I S GRB GR 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
912300024693	BDS491 LED30-/830 II DM GRB GR 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
912300024719	BDS491 LED20/722 PSU II DM GRB GR H07 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode

Operating and Electrical

Order Code	Full Product Name	Driver current
910505017426	BDS491 CG25-/740 II S GR D11 76	380 mA
910505017431	BDS491 CG25-/740 II A GR H07RN-PX1.5 60	380 mA

Order Code	Full Product Name	Driver current
910505017432	BDS491 CG25-/730 II S GR 60	447 mA
912300024684	BDS491 LED100-/740 I DM GRB DF-S GR CLO	-

Order Code	Full Product Name	Driver current
912300024685	BDS491 LED10-/740 I DM GRB DF-S GR CLO S	-
912300024721	BDS491 LED40/730 PSU I DW DF-S GR H07 60	-
912300024687	BDS491 LED70-/830 I S GRB GR 60	-

Order Code	Full Product Name	Driver current
912300024693	BDS491 LED30-/830 II DM GRB GR 60	-
912300024719	BDS491 LED20/722 PSU II DM GRB GR H07 60	-

General Information (1/2)

Order Code	Full Product Name	Coating	Light source		Gear	Glow-wire test
			color			
910505017426	BDS491 CG25-/740 II S GR D11 76	-	740 neutral white	EB	Temperature 650 °C, duration 5 s	
910505017431	BDS491 CG25-/740 II A GR H07RN-PX1.5 60	-	740 neutral white	EB	Temperature 650 °C, duration 5 s	
910505017432	BDS491 CG25-/730 II S GR 60	-	730 warm white	EB	Temperature 650 °C, duration 5 s	
912300024684	BDS491 LED100-/740 I DM GRB DF-S GR CLO	-	740 neutral white	-	-	
912300024685	BDS491 LED10-/740 I DM GRB DF-S GR CLO S	-	740 neutral white	-	-	

Order Code	Full Product Name	Coating	Light source		Gear	Glow-wire test
			color			
912300024721	BDS491 LED40/730 PSU I DW DF-S GR H07 60	-	730 warm white	-	-	
912300024687	BDS491 LED70-/830 I S GRB GR 60	-	830 warm white	-	-	
912300024693	BDS491 LED30-/830 II DM GRB GR 60	-	830 warm white	-	-	
912300024719	BDS491 LED20/722 PSU II DM GRB GR H07 60	-	722 warm white	-	-	

General Information (2/2)

Order Code	Full Product Name	Lamp family code	Lamp version	Number of light sources		Optic type	Optical element	Service tag	UL mark
910505017426	BDS491 CG25-/740 II S GR D11 76	CG25	-	15 pcs	Symmetrical	-	-	-	
910505017431	BDS491 CG25-/740 II A GR H07RN-PX1.5 60	CG25	-	15 pcs	Asymmetrical	-	-	-	
910505017432	BDS491 CG25-/730 II S GR 60	CG25	-	15 pcs	Symmetrical	-	-	-	
912300024684	BDS491 LED100-/740 I DM GRB DF-S GR CLO	LED100	-	-	Distribution medium	-	Yes	-	
912300024685	BDS491 LED10-/740 I DM GRB DF-S GR CLO S	LED10	-	-	Distribution medium	-	Yes	-	
912300024721	BDS491 LED40/730 PSU I DW DF-S GR H07 60	LED40	4S	-	Distribution wide	Diffuser element structured	Yes	-	
912300024687	BDS491 LED70-/830 I S GRB GR 60	LED70	-	-	Symmetrical	-	Yes	-	
912300024693	BDS491 LED30-/830 II DM GRB GR 60	LED30	-	-	Distribution medium	-	Yes	-	
912300024719	BDS491 LED20/722 PSU II DM GRB GR H07 60	LED20	4S	-	Distribution medium	-	Yes	-	

Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering	Initial luminous flux
			Index	
910505017426	BDS491 CG25-/740 II S GR D11 76	4000 K	≥70	2140 lm
910505017431	BDS491 CG25-/740 II A GR H07RN-PX1.5 60	4000 K	≥70	2140 lm
910505017432	BDS491 CG25-/730 II S GR 60	3000 K	≥70	2117 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering	Initial luminous flux
			Index	
912300024684	BDS491 LED100-/740 I DM GRB DF-S GR CLO	4000 K	70	7644 lm
912300024685	BDS491 LED10-/740 I DM GRB DF-S GR CLO S	4000 K	70	803.6 lm
912300024721	BDS491 LED40/730 PSU I DW DF-S GR H07 60	3000 K	70	3240 lm

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Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
912300024687	BDS491 LED70-/830 I S GRB GR 60	3000 K	80	5670 lm
912300024693	BDS491 LED30-/830 II DM GRB GR 60	3000 K	80	2400 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
912300024719	BDS491 LED20/722 PSU II DM GRB GR H07 60	2200 K	70	1600 lm

Light Technical

Order Code	Full Product Name	Scotopic/ photopic lumen ratio	Upward light output ratio
910505017426	BDS491 CG25-/740 II S GR D11 76	1.24	0.03
910505017431	BDS491 CG25-/740 II A GR H07RN-PX1.5 60	1.24	0.03
910505017432	BDS491 CG25-/730 II S GR 60	1.24	0.03
912300024684	BDS491 LED100-/740 I DM GRB DF-S GR CLO	-	0.0351
912300024685	BDS491 LED10-/740 I DM GRB DF-S GR CLO S	-	0.0307

Order Code	Full Product Name	Scotopic/ photopic lumen ratio	Upward light output ratio
912300024721	BDS491 LED40/730 PSU I DW DF-S GR H07 60	-	0.0322
912300024687	BDS491 LED70-/830 I S GRB GR 60	-	0.0136
912300024693	BDS491 LED30-/830 II DM GRB GR 60	-	0.03
912300024719	BDS491 LED20/722 PSU II DM GRB GR H07 60	-	0.0261

