



# 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

## 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

<b>Type</b>	BDS491
<b>Light source</b>	Build-in LED-module
<b>Power</b>	Standard version: 10-82 W (3000 K), 9-75 W (4000 K) ClearGuide version: 18-33 W (3000 K), 16-32 W (4000 K)
<b>Luminous flux</b>	Standard version: 1100-7400 lm (3000 K), 1100-7450 lm (4000 K) ClearGuide version: 1700-3200 lm (3000 K); 1650-2800 lm (4000 K)
<b>Luminaire efficacy</b>	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)
<b>Correlated Color Temperature</b>	Standard version: 3000 K, warm white (WW), 4000 K, neutral white (NW) ClearGuide version: 3000 K, warm white (WW), 4000 K, neutral white (NW)
<b>Color Rendering Index</b>	Standard version: $\geq 80$ (3000 K), $\geq 70$ (4000 K) ClearGuide version: $\geq 70$ (3000 K), $\geq 70$ (4000 K)
<b>Maintenance of lumen output - L80B10</b>	100.000 hours
<b>Operating temperature range</b>	-20 to +35 °C
<b>Driver</b>	Built-in (self ballasted LED-module)
<b>Mains voltage</b>	220-240 V / 50-60 Hz
<b>Inrush current</b>	Standard version: 28 A / 150 $\mu$ s (27 W Xitanium driver), 27 A / 150 $\mu$ s (40 W Xitanium driver), 80 A / 150 $\mu$ s (100 W Xitanium driver) ClearGuide version: 27 A / 150 $\mu$ s (40 W Xitanium driver)

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

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## Versions



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



CityCharm Cone BDS491 urban-lighting luminaire, with dark grey inner part and with the standard diffusing plate.



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



CityCharm Cone BDS491 urban-lighting luminaire with ClearGuide

## Product details



Back louvre accessory (separated/exploded view).



Back louvre accessory (fixed together).



CityCharm Cone BDS491 fits on any standard pole.



CityCharm Cone BDS491 comes in various colored inner parts for a different day-night appearance, here in green.

## Product details



Gear department



Close up ClearGuide optic

### Approval and Application

Mech. impact protection code	IK10
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### General Information

Luminaire light beam spread	360°
CE mark	CE mark
Optical cover/lens type	Polycarbonate bowl/cover
Driver included	Yes
ENEC mark	ENEC mark
Flammability mark	-
Gear	EB
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°
Upward light output ratio	0.03

### Mechanical and Housing

Color	Gray
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### Application Conditions

Order Code	Full Product Name	Maximum dim level
910505017138	BDS491 GRN30-/740 II DM GRB GR C4K 60	Not applicable
910505017139	BDS491 GRN40-/740 II DM GRB GR C4K 60	Not applicable
910505017140	BDS491 GRN70-/740 II DM GRB GR C4K 60	Not applicable
910505017171	BDS491 GRN70-/830 I S GRB GR 60	Not applicable
910505017184	BDS491 GRN30-/830 II DM GRB GR 60	Not applicable
910505017185	BDS491 GRN70-/830 II DM GRB GR H07RN-PX1	Not applicable
910505017186	BDS491 GRN30-/740 II DM GRB GR H07RN-PX1	Not applicable
910505017187	BDS491 GRN50-/740 II DM GRB GR 60	Not applicable
910505017188	BDS491 GRN70-/740 II DM GRB GR 60	Not applicable
910505017141	BDS491 GRN40-/740 II S GRB DF GR C4K 60	Not applicable
910505017167	BDS491 GRN100-/740 I DM GRB DF-S GR CLO	Not applicable
910505017168	BDS491 GRN10-/740 I DM GRB DF-S GR CLO S	Not applicable
910505017221	BDS491 GRN50-/740 I DM GRB GR D9 H07RN-P	10%
910505017222	BDS491 GRN100-/740 I DM GRB GR D9 H07RN-	10%
910505017426	BDS491 CG25-/740 II S GR D11 76	Not applicable
910505017431	BDS491 CG25-/740 II A GR H07RN-PX1.5 60	Not applicable
910505017432	BDS491 CG25-/730 II S GR 60	Not applicable

## Approval and Application

Order Code	Full Product Name	Surge Protection (Common/Differential)
910505017138	BDS491 GRN30-/740 II DM GRB GR C4K 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
910505017139	BDS491 GRN40-/740 II DM GRB GR C4K 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
910505017140	BDS491 GRN70-/740 II DM GRB GR C4K 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
910505017171	BDS491 GRN70-/830 I S GRB GR 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode

Order Code	Full Product Name	Surge Protection (Common/Differential)
910505017184	BDS491 GRN30-/830 II DM GRB GR 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
910505017185	BDS491 GRN70-/830 II DM GRB GR H07RN-PX1	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
910505017186	BDS491 GRN30-/740 II DM GRB GR H07RN-PX1	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
910505017187	BDS491 GRN50-/740 II DM GRB GR 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode

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Order Code	Full Product Name	Surge Protection (Common/Differential)
910505017188	BDS491 GRN70-/740 II DM GRB GR 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
910505017141	BDS491 GRN40-/740 II S GRB DF GR C4K 60	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
910505017167	BDS491 GRN100-/740 I DM GRB DF-S GR CLO	Luminaire surge protection level until 10 kV differential mode and 10 kV common mode
910505017168	BDS491 GRN10-/740 I DM GRB DF-S GR CLO S	Luminaire surge protection level until 10 kV differential mode and 10 kV common mode
910505017221	BDS491 GRN50-/740 I DM GRB GR D9 H07RN-P	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode

Order Code	Full Product Name	Surge Protection (Common/Differential)
910505017222	BDS491 GRN100-/740 I DM GRB GR D9 H07RN-	Luminaire surge protection level until 6 kV differential mode and 8 kV common mode
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

### Controls and Dimming

Order Code	Full Product Name	Dimmable
910505017138	BDS491 GRN30-/740 II DM GRB GR C4K 60	No
910505017139	BDS491 GRN40-/740 II DM GRB GR C4K 60	No
910505017140	BDS491 GRN70-/740 II DM GRB GR C4K 60	No
910505017171	BDS491 GRN70-/830 I S GRB GR 60	No
910505017184	BDS491 GRN30-/830 II DM GRB GR 60	No
910505017185	BDS491 GRN70-/830 II DM GRB GR H07RN-PX1	No
910505017186	BDS491 GRN30-/740 II DM GRB GR H07RN-PX1	No
910505017187	BDS491 GRN50-/740 II DM GRB GR 60	No
910505017188	BDS491 GRN70-/740 II DM GRB GR 60	No

Order Code	Full Product Name	Dimmable
910505017141	BDS491 GRN40-/740 II S GRB DF GR C4K 60	No
910505017167	BDS491 GRN100-/740 I DM GRB DF-S GR CLO	No
910505017168	BDS491 GRN10-/740 I DM GRB DF-S GR CLO S	No
910505017221	BDS491 GRN50-/740 I DM GRB GR D9 H07RN-P	Yes
910505017222	BDS491 GRN100-/740 I DM GRB GR D9 H07RN-	Yes
910505017426	BDS491 CG25-/740 II S GR D11 76	No
910505017431	BDS491 CG25-/740 II A GR H07RN-PX1.5 60	No
910505017432	BDS491 CG25-/730 II S GR 60	No

### Operating and Electrical

Order Code	Full Product Name	Driver current
910505017138	BDS491 GRN30-/740 II DM GRB GR C4K 60	340 mA
910505017139	BDS491 GRN40-/740 II DM GRB GR C4K 60	470 mA
910505017140	BDS491 GRN70-/740 II DM GRB GR C4K 60	405 mA
910505017171	BDS491 GRN70-/830 I S GRB GR 60	445 mA
910505017184	BDS491 GRN30-/830 II DM GRB GR 60	375 mA
910505017185	BDS491 GRN70-/830 II DM GRB GR H07RN-PX1	445 mA
910505017186	BDS491 GRN30-/740 II DM GRB GR H07RN-PX1	340 mA
910505017187	BDS491 GRN50-/740 II DM GRB GR 60	610 mA
910505017188	BDS491 GRN70-/740 II DM GRB GR 60	405 mA

Order Code	Full Product Name	Driver current
910505017141	BDS491 GRN40-/740 II S GRB DF GR C4K 60	470 mA
910505017167	BDS491 GRN100-/740 I DM GRB DF-S GR CLO	605 mA
910505017168	BDS491 GRN10-/740 I DM GRB DF-S GR CLO S	305 mA
910505017221	BDS491 GRN50-/740 I DM GRB GR D9 H07RN-P	-
910505017222	BDS491 GRN100-/740 I DM GRB GR D9 H07RN-	-
910505017426	BDS491 CG25-/740 II S GR D11 76	380 mA
910505017431	BDS491 CG25-/740 II A GR H07RN-PX1.5 60	380 mA
910505017432	BDS491 CG25-/730 II S GR 60	447 mA

### General Information (1/2)

Order Code	Full Product Name	Coating	Light source color	Glow-wire test	Lamp family code
910505017138	BDS491 GRN30-/740 II DM GRB GR C4K 60	-	740 neutral white	Temperature 650 °C, duration 30 s	GRN30

Order Code	Full Product Name	Coating	Light source color	Glow-wire test	Lamp family code
910505017139	BDS491 GRN40-/740 II DM GRB GR C4K 60	-	740 neutral white	Temperature 650 °C, duration 30 s	GRN40

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Order Code	Full Product Name	Coating	Light source		Lamp family code
			color	Glow-wire test	
910505017140	BDS491 GRN70-/740 II DM GRB GR C4K 60	-	740 neutral white	Temperature 650 °C, duration 30 s	GRN70
910505017171	BDS491 GRN70-/830 I S GRB GR 60	-	830 warm white	Temperature 650 °C, duration 30 s	GRN70
910505017184	BDS491 GRN30-/830 II DM GRB GR 60	-	830 warm white	Temperature 650 °C, duration 30 s	GRN30
910505017185	BDS491 GRN70-/830 II DM GRB GR H07RN- PX1	-	830 warm white	Temperature 650 °C, duration 30 s	GRN70
910505017186	BDS491 GRN30-/740 II DM GRB GR H07RN- PX1	-	740 neutral white	Temperature 650 °C, duration 30 s	GRN30
910505017187	BDS491 GRN50-/740 II DM GRB GR 60	-	740 neutral white	Temperature 650 °C, duration 30 s	GRN50
910505017188	BDS491 GRN70-/740 II DM GRB GR 60	-	740 neutral white	Temperature 650 °C, duration 30 s	GRN70
910505017141	BDS491 GRN40-/740 II S GRB DF GR C4K 60	-	740 neutral white	Temperature 650 °C, duration 30 s	GRN40

Order Code	Full Product Name	Coating	Light source		Lamp family code
			color	Glow-wire test	
910505017167	BDS491 GRN100-/740 I DM GRB DF-S GR CLO	-	740 neutral white	Temperature 650 °C, duration 30 s	GRN100
910505017168	BDS491 GRN10-/740 I DM GRB DF-S GR CLO S	-	740 neutral white	Temperature 650 °C, duration 30 s	GRN10
910505017221	BDS491 GRN50-/740 I DM GRB GR D9 H07RN-P	-	740 neutral white	-	GRN50
910505017222	BDS491 GRN100-/740 I DM GRB GR D9 H07RN-	-	740 neutral white	-	GRN100
910505017426	BDS491 CG25-/740 II S GR D11 76	-	740 neutral white	Temperature 650 °C, duration 5 s	CG25
910505017431	BDS491 CG25-/740 II A GR H07RN- PX1.5 60	-	740 neutral white	Temperature 650 °C, duration 5 s	CG25
910505017432	BDS491 CG25-/730 II S GR 60	-	730 warm white	Temperature 650 °C, duration 5 s	CG25

### General Information (2/2)

Order Code	Full Product Name	Number of light sources	Optic type	Optical element	UL mark
910505017139	BDS491 GRN40-/740 II DM GRB GR C4K 60	20 pcs	Distribution medium	-	-
910505017140	BDS491 GRN70-/740 II DM GRB GR C4K 60	40 pcs	Distribution medium	-	-
910505017171	BDS491 GRN70-/830 I S GRB GR 60	40 pcs	Symmetrical	-	-
910505017184	BDS491 GRN30-/830 II DM GRB GR 60	20 pcs	Distribution medium	-	-
910505017185	BDS491 GRN70-/830 II DM GRB GR H07RN-PX1	40 pcs	Distribution medium	-	-

Order Code	Full Product Name	Number of light sources	Optic type	Optical element	UL mark
910505017187	BDS491 GRN50-/740 II DM GRB GR 60	20 pcs	Distribution medium	-	-
910505017188	BDS491 GRN70-/740 II DM GRB GR 60	40 pcs	Distribution medium	-	-
910505017141	BDS491 GRN40-/740 II S GRB DF GR C4K 60	20 pcs	Symmetrical	Diffuser element	-
910505017167	BDS491 GRN100-/740 I DM GRB DF-S GR CLO	40 pcs	Distribution medium	Diffuser element structured	-
910505017168	BDS491 GRN10-/740 I DM GRB DF-S GR CLO S	8 pcs	Distribution medium	Diffuser element structured	-

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Order Code	Full Product Name	Number of light sources	Optic type	Optical element	UL mark
910505017221	BDS491 GRN50-/740 I DM GRB GR D9 H07RN-P	-	Distribution medium	-	-
910505017222	BDS491 GRN100-/740 I DM GRB GR D9 H07RN-	-	Distribution medium	-	-
910505017426	BDS491 CG25-/740 II S GR D11 76	15 pcs	Symmetrical	-	-

Order Code	Full Product Name	Number of light sources	Optic type	Optical element	UL mark
910505017431	BDS491 CG25-/740 II A GR H07RN-PX1.5 60	15 pcs	Asymmetrical	-	-
910505017432	BDS491 CG25-/730 II S GR 60	15 pcs	Symmetrical	-	-

### Initial Performance (IEC Compliant)

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
910505017138	BDS491 GRN30-/740 II DM GRB GR C4K 60	4000 K	≥70	2577 lm
910505017139	BDS491 GRN40-/740 II DM GRB GR C4K 60	4000 K	≥70	3396 lm
910505017140	BDS491 GRN70-/740 II DM GRB GR C4K 60	4000 K	≥70	5974 lm
910505017171	BDS491 GRN70-/830 I S GRB GR 60	3000 K	≥80	5938 lm
910505017184	BDS491 GRN30-/830 II DM GRB GR 60	3000 K	≥80	2567 lm
910505017185	BDS491 GRN70-/830 II DM GRB GR H07RN-PX1	3000 K	≥80	5938 lm
910505017186	BDS491 GRN30-/740 II DM GRB GR H07RN-PX1	4000 K	≥70	2577 lm
910505017187	BDS491 GRN50-/740 II DM GRB GR 60	4000 K	≥70	4278 lm
910505017188	BDS491 GRN70-/740 II DM GRB GR 60	4000 K	≥70	5974 lm

Order Code	Full Product Name	Init. Corr. Color Temperature	Init. Color Rendering Index	Initial luminous flux
910505017141	BDS491 GRN40-/740 II S GRB DF GR C4K 60	4000 K	≥70	3396 lm
910505017167	BDS491 GRN100-/740 I DM GRB DF-S GR CLO	4000 K	≥70	8493 lm
910505017168	BDS491 GRN10-/740 I DM GRB DF-S GR CLO S	4000 K	≥70	943 lm
910505017221	BDS491 GRN50-/740 I DM GRB GR D9 H07RN-P	4000 K	≥70	4278 lm
910505017222	BDS491 GRN100-/740 I DM GRB GR D9 H07RN-	4000 K	≥70	8493 lm
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

### Light Technical

Order Code	Full Product Name	Scotopic/photopic lumen ratio
910505017138	BDS491 GRN30-/740 II DM GRB GR C4K 60	-
910505017139	BDS491 GRN40-/740 II DM GRB GR C4K 60	-
910505017140	BDS491 GRN70-/740 II DM GRB GR C4K 60	-
910505017171	BDS491 GRN70-/830 I S GRB GR 60	-
910505017184	BDS491 GRN30-/830 II DM GRB GR 60	-
910505017185	BDS491 GRN70-/830 II DM GRB GR H07RN-PX1	-
910505017186	BDS491 GRN30-/740 II DM GRB GR H07RN-PX1	-
910505017187	BDS491 GRN50-/740 II DM GRB GR 60	-
910505017188	BDS491 GRN70-/740 II DM GRB GR 60	-

Order Code	Full Product Name	Scotopic/photopic lumen ratio
910505017141	BDS491 GRN40-/740 II S GRB DF GR C4K 60	-
910505017167	BDS491 GRN100-/740 I DM GRB DF-S GR CLO	-
910505017168	BDS491 GRN10-/740 I DM GRB DF-S GR CLO S	-
910505017221	BDS491 GRN50-/740 I DM GRB GR D9 H07RN-P	-
910505017222	BDS491 GRN100-/740 I DM GRB GR D9 H07RN-	-
910505017426	BDS491 CG25-/740 II S GR D11 76	1.24
910505017431	BDS491 CG25-/740 II A GR H07RN-PX1.5 60	1.24
910505017432	BDS491 CG25-/730 II S GR 60	1.24

