



# CityCharm Cone - combining ambiance and optimum performance

## CityCharm Cone

CityCharm Cone is designed for use in urban areas where comfortable lighting, ambiance and design play an important role. Its unobtrusive appearance makes it a timeless, future-proof luminaire that is ideal for residential areas, parks, footpaths and cycle lanes, where visual comfort and maximum efficiency are key. CityCharm offers a choice of two iconic designs (Cone and Cordoba) and various accessories, enabling you to create a lighting solution that carries your signature, both by day and by night. CityCharm luminaires are also available as a complete set, with a choice of dedicated poles and brackets.

### Benefits

- Elegant iconic range focused on comfortable lighting
- Future-proof due to excellent lighting performance and high quality of product and finishing
- Suitable for both renovation projects and new installations thanks to dedicated brackets and

### 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 lumen range 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

# CityCharm Cone

## 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>                                | 10-82 W (3000 K)<br>9-75 W (4000 K)   |
| <b>Luminous flux</b>                        | 1100-7400 lm (3000 K)<br>1100-7450 lm (4000 K)  |
| <b>Luminaire efficacy</b>                   | 120 lm/W (3000 K)<br>130 lm/W (4000 K)  |
| <b>Correlated Color</b>                     | 3000 K, warm white (WW)   |
| <b>Temperature</b>                          | 4000 K, neutral white (NW)  |
| <b>Color Rendering Index</b>                | ≥ 80 (3000 K)<br>≥ 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>                       | 28 A / 150 µs (27 W Xitanium driver)<br>27 A / 150 µs (40 W Xitanium driver)<br>80 A / 150 µs (100 W Xitanium driver) |

|                              |  |
|------------------------------|--|
| <b>Dimming</b>               | DynaDimmer<br>LumiStep<br>CLO  |
| <b>Controls system input</b> | DALI   |
| <b>Options</b>               | Photocell: Minicell, 35, 55, 70 lux  |
| <b>Optic</b>                 | Distribution medium (DM), wide (DW), vertical (DV),<br>symmetrical (S), asymmetrical (A)   |
| <b>Optical element</b>       | Louver (option)  |
| <b>Optical cover</b>         | Diffusing plates (two different plates available)  |
| <b>Material</b>              | Housing: high-pressure die-cast aluminum, non corrosive<br>Bowl: polycarbonate, reinforced against UV                              |
| <b>Color</b>                 | Housing: Philips ultra-dark grey (close to RAL 7022, fine textured color)<br>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: Ø 60-76 mm, two screws<br>Recommended mounting height: 4-6 m<br>Max SCx: 0.1155 m                               |
| <b>Accessories</b>           | JDP490 (CityCharm post-top bracket)<br>JPP490 (CityCharm bracket)<br>YHM490 (CityCharm pole)                                       |

## 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

## Versions



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.



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     | PC      |
| Driver included             | Yes     |
| Flammability mark           | NO      |
| 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

|        |      |
|--------|------|
| Colour | Gray |
|--------|------|

## Approval and Application

| Order Code | Full Product Name                        | Surge Protection (Common/Differential)   |
|------------|--|--|
| 92122700   | BDS491 GRN30-/740 II DM GRB GR C4K 60    | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |
| 92123400   | BDS491 GRN40-/740 II DM GRB GR C4K 60    | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |
| 92124100   | BDS491 GRN70-/740 II DM GRB GR C4K 60    | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |
| 92155500   | BDS491 GRN70-/830 I S GRB GR 60          | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |
| 92168500   | BDS491 GRN30-/830 II DM GRB GR 60        | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |
| 92169200   | BDS491 GRN70-/830 II DM GRB GR H07RN-PX1 | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |
| 92170800   | BDS491 GRN30-/740 II DM GRB GR H07RN-PX1 | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |
| 92171500   | BDS491 GRN50-/740 II DM GRB GR 60        | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |
| 92172200   | BDS491 GRN70-/740 II DM GRB GR 60        | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |
| 92125800   | BDS491 GRN40-/740 II S GRB DF GR C4K 60  | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |
| 92151700   | BDS491 GRN100-/740 I DM GRB DF-S GR CLO  | Surge protection level until 10 kV   |
| 92152400   | BDS491 GRN10-/740 I DM GRB DF-S GR CLO S | Surge protection level until 10 kV   |
| 93921500   | BDS491 CG25-/740 II S GR D11 76          | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |
| 93926000   | BDS491 CG25-/740 II A GR H07RN-PX1.5 60  | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |
| 93927700   | BDS491 CG25-/730 II S GR 60              | Luminaire surge protection level up to 6 kV differential mode and 8 kV common mode |

## Operating and Electrical

| Order Code | Full Product Name                        | Driver current | Order Code | Full Product Name                        | Driver current |
|------------|--|----------------|------------|--|----------------|
| 92122700   | BDS491 GRN30-/740 II DM GRB GR C4K 60    | 340 mA         | 92172200   | BDS491 GRN70-/740 II DM GRB GR 60        | 405 mA         |
| 92123400   | BDS491 GRN40-/740 II DM GRB GR C4K 60    | 470 mA         | 92125800   | BDS491 GRN40-/740 II S GRB DF GR C4K 60  | 470 mA         |
| 92124100   | BDS491 GRN70-/740 II DM GRB GR C4K 60    | 405 mA         | 92151700   | BDS491 GRN100-/740 I DM GRB DF-S GR CLO  | 605 mA         |
| 92155500   | BDS491 GRN70-/830 I S GRB GR 60          | 445 mA         | 92152400   | BDS491 GRN10-/740 I DM GRB DF-S GR CLO S | 305 mA         |
| 92168500   | BDS491 GRN30-/830 II DM GRB GR 60        | 375 mA         | 93921500   | BDS491 CG25-/740 II S GR D11 76          | 380 mA         |
| 92169200   | BDS491 GRN70-/830 II DM GRB GR H07RN-PX1 | 445 mA         | 93926000   | BDS491 CG25-/740 II A GR H07RN-PX1.5 60  | 380 mA         |
| 92170800   | BDS491 GRN30-/740 II DM GRB GR H07RN-PX1 | 340 mA         | 93927700   | BDS491 CG25-/730 II S GR 60              | 447 mA         |
| 92171500   | BDS491 GRN50-/740 II DM GRB GR 60        | 610 mA         |            |  |                |

## General Information (1/2)

| Order Code | Full Product Name                     | Coating | Light source colour | Glow-wire test | Lamp family code | Order Code | Full Product Name                     | Coating | Light source colour | Glow-wire test | Lamp family code |
|------------|---------------------------------------|---------|---------------------|----------------|------------------|------------|---------------------------------------|---------|---------------------|----------------|------------------|
| 92122700   | BDS491 GRN30-/740 II DM GRB GR C4K 60 | -       | 740 neutral white   | 650/30         | GRN30            | 92123400   | BDS491 GRN40-/740 II DM GRB GR C4K 60 | -       | 740 neutral white   | 650/30         | GRN40            |

# CityCharm Cone

| Order Code | Full Product Name                        | Coating | Light source colour | Glow-wire test | Lamp family code |
|------------|--|---------|---------------------|----------------|------------------|
| 92124100   | BDS491 GRN70-/740 II DM GRB GR C4K 60    | -       | 740 neutral white   | 650/30         | GRN70            |
| 92155500   | BDS491 GRN70-/830 I S GRB GR 60          | -       | 830 warm white      | 650/30         | GRN70            |
| 92168500   | BDS491 GRN30-/830 II DM GRB GR 60        | -       | 830 warm white      | 650/30         | GRN30            |
| 92169200   | BDS491 GRN70-/830 II DM GRB GR H07RN-PX1 | -       | 830 warm white      | 650/30         | GRN70            |
| 92170800   | BDS491 GRN30-/740 II DM GRB GR H07RN-PX1 | -       | 740 neutral white   | 650/30         | GRN30            |
| 92171500   | BDS491 GRN50-/740 II DM GRB GR 60        | -       | 740 neutral white   | 650/30         | GRN50            |
| 92172200   | BDS491 GRN70-/740 II DM GRB GR 60        | -       | 740 neutral white   | 650/30         | GRN70            |

| Order Code | Full Product Name                        | Coating | Light source colour | Glow-wire test | Lamp family code |
|------------|--|---------|---------------------|----------------|------------------|
| 92125800   | BDS491 GRN40-/740 II S GRB DF GR C4K 60  | -       | 740 neutral white   | 650/30         | GRN40            |
| 92151700   | BDS491 GRN100-/740 I DM GRB DF-S GR CLO  | -       | 740 neutral white   | 650/30         | GRN100           |
| 92152400   | BDS491 GRN10-/740 I DM GRB DF-S GR CLO S | -       | 740 neutral white   | 650/30         | GRN10            |
| 93921500   | BDS491 CG25-/740 II S GR D11 76          | -       | 740 neutral white   | 650/5          | CG25             |
| 93926000   | BDS491 CG25-/740 II A GR H07RN-PX1.5 60  | -       | 740 neutral white   | 650/5          | CG25             |
| 93927700   | BDS491 CG25-/730 II S GR 60              | -       | 730 warm white      | 650/5          | CG25             |

## General Information (2/2)

| Order Code | Full Product Name                        | Number of light sources | Optic type          | Optical element | UL mark |
|------------|--|-------------------------|---------------------|-----------------|---------|
| 92122700   | BDS491 GRN30-/740 II DM GRB GR C4K 60    | 20                      | Distribution medium | No              | -       |
| 92123400   | BDS491 GRN40-/740 II DM GRB GR C4K 60    | 20                      | Distribution medium | No              | -       |
| 92124100   | BDS491 GRN70-/740 II DM GRB GR C4K 60    | 40                      | Distribution medium | No              | -       |
| 92155500   | BDS491 GRN70-/830 I S GRB GR 60          | 40                      | Symmetrical         | No              | -       |
| 92168500   | BDS491 GRN30-/830 II DM GRB GR 60        | 20                      | Distribution medium | No              | -       |
| 92169200   | BDS491 GRN70-/830 II DM GRB GR H07RN-PX1 | 40                      | Distribution medium | No              | -       |
| 92170800   | BDS491 GRN30-/740 II DM GRB GR H07RN-PX1 | 20                      | Distribution medium | No              | -       |
| 92171500   | BDS491 GRN50-/740 II DM GRB GR 60        | 20                      | Distribution medium | No              | -       |

| Order Code | Full Product Name                        | Number of light sources | Optic type          | Optical element | UL mark |
|------------|--|-------------------------|---------------------|-----------------|---------|
| 92172200   | BDS491 GRN70-/740 II DM GRB GR 60        | 40                      | Distribution medium | No              | -       |
| 92125800   | BDS491 GRN40-/740 II S GRB DF GR C4K 60  | 20                      | Symmetrical         | DF              | -       |
| 92151700   | BDS491 GRN100-/740 I DM GRB DF-S GR CLO  | 40                      | Distribution medium | DF-S            | -       |
| 92152400   | BDS491 GRN10-/740 I DM GRB DF-S GR CLO S | 8                       | Distribution medium | DF-S            | -       |
| 93921500   | BDS491 CG25-/740 II S GR D11 76          | 15                      | Symmetrical         | -               | -       |
| 93926000   | BDS491 CG25-/740 II A GR H07RN-PX1.5 60  | 15                      | Asymmetrical        | -               | -       |
| 93927700   | BDS491 CG25-/730 II S GR 60              | 15                      | Symmetrical         | -               | -       |

## Initial Performance (IEC Compliant)

| Order Code | Full Product Name                     | Init. Corr. Colour Temperature | Init. Colour Rendering Index | Initial luminous flux |
|------------|---------------------------------------|--------------------------------|------------------------------|-----------------------|
| 92122700   | BDS491 GRN30-/740 II DM GRB GR C4K 60 | 4000 K                         | ≥70                          | 2320 lm               |
| 92123400   | BDS491 GRN40-/740 II DM GRB GR C4K 60 | 4000 K                         | ≥70                          | 3068 lm               |
| 92124100   | BDS491 GRN70-/740 II DM GRB GR C4K 60 | 4000 K                         | ≥70                          | 5266 lm               |

| Order Code | Full Product Name                        | Init. Corr. Colour Temperature | Init. Colour Rendering Index | Initial luminous flux |
|------------|--|--------------------------------|------------------------------|-----------------------|
| 92155500   | BDS491 GRN70-/830 I S GRB GR 60          | 3000 K                         | ≥80                          | 5375 lm               |
| 92168500   | BDS491 GRN30-/830 II DM GRB GR 60        | 3000 K                         | ≥80                          | 2315 lm               |
| 92169200   | BDS491 GRN70-/830 II DM GRB GR H07RN-PX1 | 3000 K                         | ≥80                          | 5243 lm               |

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| Order Code | Full Product Name                        | Init. Corr. Colour Temperature | Init. Colour Rendering Index | Initial luminous flux |
|------------|--|--------------------------------|------------------------------|-----------------------|
| 92170800   | BDS491 GRN30-/740 II DM GRB GR H07RN-PX1 | 4000 K                         | ≥70                          | 2320 lm               |
| 92171500   | BDS491 GRN50-/740 II DM GRB GR 60        | 4000 K                         | ≥70                          | 3806 lm               |
| 92172200   | BDS491 GRN70-/740 II DM GRB GR 60        | 4000 K                         | ≥70                          | 5266 lm               |
| 92125800   | BDS491 GRN40-/740 II S GRB DF GR C4K 60  | 4000 K                         | ≥70                          | 3156 lm               |
| 92151700   | BDS491 GRN100-/740 I DM GRB DF-S GR CLO  | 4000 K                         | ≥70                          | 7379 lm               |

| Order Code | Full Product Name                        | Init. Corr. Colour Temperature | Init. Colour Rendering Index | Initial luminous flux |
|------------|--|--------------------------------|------------------------------|-----------------------|
| 92152400   | BDS491 GRN10-/740 I DM GRB DF-S GR CLO S | 4000 K                         | ≥70                          | 889 lm                |
| 93921500   | BDS491 CG25-/740 II S GR D11 76          | 4000 K                         | ≥70                          | 2140 lm               |
| 93926000   | BDS491 CG25-/740 II A GR H07RN-PX1.5 60  | 4000 K                         | ≥70                          | 2140 lm               |
| 93927700   | BDS491 CG25-/730 II S GR 60              | 3000 K                         | ≥70                          | 2117 lm               |

### Light Technical

| Order Code | Full Product Name                        | Scotopic/photopic lumen ratio |
|------------|--|-------------------------------|
| 92122700   | BDS491 GRN30-/740 II DM GRB GR C4K 60    | -                             |
| 92123400   | BDS491 GRN40-/740 II DM GRB GR C4K 60    | -                             |
| 92124100   | BDS491 GRN70-/740 II DM GRB GR C4K 60    | -                             |
| 92155500   | BDS491 GRN70-/830 I S GRB GR 60          | -                             |
| 92168500   | BDS491 GRN30-/830 II DM GRB GR 60        | -                             |
| 92169200   | BDS491 GRN70-/830 II DM GRB GR H07RN-PX1 | -                             |
| 92170800   | BDS491 GRN30-/740 II DM GRB GR H07RN-PX1 | -                             |
| 92171500   | BDS491 GRN50-/740 II DM GRB GR 60        | -                             |

| Order Code | Full Product Name                        | Scotopic/photopic lumen ratio |
|------------|--|-------------------------------|
| 92172200   | BDS491 GRN70-/740 II DM GRB GR 60        | -                             |
| 92125800   | BDS491 GRN40-/740 II S GRB DF GR C4K 60  | -                             |
| 92151700   | BDS491 GRN100-/740 I DM GRB DF-S GR CLO  | -                             |
| 92152400   | BDS491 GRN10-/740 I DM GRB DF-S GR CLO S | -                             |
| 93921500   | BDS491 CG25-/740 II S GR D11 76          | 1.24                          |
| 93926000   | BDS491 CG25-/740 II A GR H07RN-PX1.5 60  | 1.24                          |
| 93927700   | BDS491 CG25-/730 II S GR 60              | 1.24                          |

