



Philips CityCharm: combining visual comfort and performance

CityCharm Cordoba

The Philips CityCharm range is designed for use in urban areas where comfortable lighting, ambience, and design play an important role. It offers three iconic, timeless designs: CityCharm cordoba (BDS490), CityCharm cone (BDS491), and CityCharm fluid (BDS492) along with a range of decorative and practical accessories. This enables you to create a lighting solution that carries the signature of your municipality, both by day and by night. Whether you specify cordoba, cone or fluid LED lights, CityCharm provides high visual comfort while maintaining excellent performance. It offers a choice of two innovative Philips Lighting technologies: GentleBeam, which maximizes visual comfort, or ClearGuide (cordoba or cone), which optimizes vertical illumination and visual guidance. To personalize your CityCharm lighting solution further, decorative accessories for this range make it possible to define the volume of the bowl and change its appearance. To personalize your CityCharm lighting solution further, decorative accessories for this range make it possible to define the volume of the bowl and change its appearance. A variety of dedicated brackets and masts are also available to enable you to reshape your residential areas and city centers in the most elegant way imaginable.

Benefits

- Choice of luminaire shapes, color effects, poles and brackets
- Diffusing tools for visual comfort, colored inserts to enhance ambiance
- Wide range of lumen outputs and optics for maximum efficiency at all lighting levels
- Choice of color temperatures and color rendering for different ambiances: 2200K, 2700K, 3000K and 4000K
- Efficacy up to 144 lm/W
- Cordoba and fluid versions available with ULR < 1%
- Lifetime up to 100,000 hours @L96 B10
- 5-year standard warranty (option to extend up to 10 years)

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
- Footpaths and cycle lanes
- Parks and boulevards

Specifications

| | |
|---|--|
| Type | BDS490 |
| 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 µs (27 W Xitanium driver), 27 A / 150 µs (40 W Xitanium driver), 80 A / 150 µs (100 W Xitanium driver) ClearGuide version: 27 A / 150 µs (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 |

CityCharm Cordoba

| | |
|---------------------|---|
| Installation | Post-top mounting: Ø 60-76 mm, two screws |
| | Recommended mounting height: 4-6 m |
| | Max SCx: 0.1124 m |

| | |
|--------------------|-------------------------------------|
| Accessories | JDP490 (CityCharm post-top bracket) |
| | JPP490 (CityCharm bracket) |
| | YHM490 (CityCharm pole) |

Versions



CityCharm Cordoba BDS490 urban-lighting luminaire with ClearGuide



CityCharm Cordoba BDS490 urban-lighting luminaire, with dark grey inner part and with the 'gentle beam' diffusing plate.



CityCharm Cordoba BDS490 urban-lighting luminaire, with dark grey inner part and without the standard diffusing plate.



CityCharm Cordoba - LED module
5000 lm - LED - 4th generation, screw fixation - 730 warm white - Power supply unit regulating - 220 to 240 V - 50 to 60 Hz - Safety class II - Symmetrical - Polycarbonate bowl/cover - Gray - Luminaire surge protection level until 6 kV differential mode and 8 kV common mode - Cable 0.2 m without plug - Spigot for diameter 60 mm

Product details



CityCharm_Cordoba-BDS490_DGR-DP01.tif



CityCharm_Cordoba_Cone-BDS490_BDS491_DGR-DP02.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 | BDS490 |
| Light technical | |
| Standard tilt angle side entry | 0° |
| Standard tilt angle posttop | 0° |
| Mechanical and housing | |
| Color | Gray |

Approval and application

| Order Code | Full Product Name | Surge Protection (Common/Differential) |
|--------------|--|--|
| 910505017425 | BDS490 CG25-/730 II A GR D11 76 | Luminaire surge protection level until 6 kV differential mode and 8 kV common mode |
| 910505017427 | BDS490 CG20-/730 II S GR CLO C6K FQQ-PX1 | Luminaire surge protection level until 6 kV differential mode and 8 kV common mode |
| 910505017428 | BDS490 CG25-/730 II S GR CLO C6K FQQ-PX1 | Luminaire surge protection level until 6 kV differential mode and 8 kV common mode |
| 910505017429 | BDS490 CG30-/730 II S GR CLO C6K FQQ-PX1 | Luminaire surge protection level until 6 kV differential mode and 8 kV common mode |
| 912300024680 | BDS490 LED20-/740 I DM GRB DF-S GR CLO S | Luminaire surge protection level until 10 kV differential mode and 10 kV common mode |
| 912300024681 | BDS490 LED50-/740 I DM GRB DF-S GR CLO S | Luminaire surge protection level until 10 kV differential mode and 10 kV common mode |
| 912300024683 | BDS490 LED100-/740 I DM GRB DF-S GR CLO | Luminaire surge protection level until 10 kV differential mode and 10 kV common mode |
| 912300024686 | BDS490 LED80-/830 I S GRB GR 60 | Luminaire surge protection level until 6 kV differential mode and 8 kV common mode |
| 912300024688 | BDS490 LED50-/830 II DM GRB GR 60 | Luminaire surge protection level until 6 kV differential mode and 8 kV common mode |
| 912300024689 | BDS490 LED70-/830 II DM GRB GR 60 | Luminaire surge protection level until 6 kV differential mode and 8 kV common mode |
| 912300024720 | BDS490 LED50/727 PSD-SR II DM GR SRT 60 | Luminaire surge protection level until 6 kV differential mode and 8 kV common mode |
| 912300024718 | BDS490 LED50/730 PSU II S1F GR PCN 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 | Order Code | Full Product Name | Driver current |
|--------------|--|----------------|--------------|---|----------------|
| 910505017425 | BDS490 CG25-/730 II A GR D11 76 | 447 mA | 912300024683 | BDS490 LED100-/740 I DM GRB DF-S GR CLO | - |
| 910505017427 | BDS490 CG20-/730 II S GR CLO C6K FQQ-PX1 | 344 mA | 912300024686 | BDS490 LED80-/830 I S GRB GR 60 | - |
| 910505017428 | BDS490 CG25-/730 II S GR CLO C6K FQQ-PX1 | 447 mA | 912300024688 | BDS490 LED50-/830 II DM GRB GR 60 | - |
| 910505017429 | BDS490 CG30-/730 II S GR CLO C6K FQQ-PX1 | 553 mA | 912300024689 | BDS490 LED70-/830 II DM GRB GR 60 | - |
| 912300024680 | BDS490 LED20-/740 I DM GRB DF-S GR CLO S | - | 912300024720 | BDS490 LED50/727 PSD-SR II DM GR SRT 60 | - |
| 912300024681 | BDS490 LED50-/740 I DM GRB DF-S GR CLO S | - | 912300024718 | BDS490 LED50/730 PSU II S1F GR PCN 60 | - |

General information (1/2)

| Order Code | Full Product Name | Coating | Light source | | | Gear | Glow-wire test | Order Code | Full Product Name | Coating | Light source | | |
|--------------|--|---------|--------------|-------|------|----------------------------------|----------------|--|-------------------|-------------|----------------|-------|----------------------------------|
| | | | color | color | Gear | | | | | | Glow-wire test | color | Gear |
| 910505017425 | BDS490 CG25-/730 II A GR D11 76 | - | 730 warm | white | EB | Temperature 650 °C, duration 5 s | 910505017429 | BDS490 CG30-/730 II S GR CLO C6K FQQ-PX1 | - | 730 warm | white | EB | Temperature 650 °C, duration 5 s |
| 910505017427 | BDS490 CG20-/730 II S GR CLO C6K FQQ-PX1 | - | 730 warm | white | EB | Temperature 650 °C, duration 5 s | 912300024680 | BDS490 LED20-/740 I DM GRB DF-S GR CLO S | - | 740 neutral | white | - | - |
| 910505017428 | BDS490 CG25-/730 II S GR CLO C6K FQQ-PX1 | - | 730 warm | white | EB | Temperature 650 °C, duration 5 s | 912300024681 | BDS490 LED50-/740 I DM GRB DF-S GR CLO S | - | 740 neutral | white | - | - |
| | | | | | | | 912300024683 | BDS490 LED100-/740 I DM GRB DF-S GR CLO | - | 740 neutral | white | - | - |

| Order Code | Full Product Name | Coating | Light source | | |
|--------------|--------------------------------------|---------|-------------------|------|----------------|
| | | | color | Gear | Glow-wire test |
| 912300024686 | BDS490 LED80-/830 I S GRB GR 60 | - | 830 warm white | - | - |
| 912300024688 | BDS490 LED50-/830 II DM GRB GR 60 | - | 830 warm white | - | - |
| 912300024689 | BDS490 LED70-/830 II DM GRB GR 60 | - | 830 warm white | - | - |

| Order Code | Full Product Name | Coating | Light source | | |
|--------------|---|---------|-------------------|------|----------------|
| | | | color | Gear | Glow-wire test |
| 912300024720 | BDS490 LED50/727 PSD-SR II DM GR SRT 60 | - | 727 warm white | - | - |
| 912300024718 | BDS490 LED50/730 PSU II SIF GR PCN 60 | - | 730 warm white | - | - |

General information (2/2)

| Order Code | Full Product Name | Lamp family code | Lamp version | Number of light sources | Optic type | Service tag | UL mark |
|--------------|--|------------------|--------------|-------------------------|---------------------|-------------|---------|
| 910505017425 | BDS490 CG25-/730 II A GR D11 76 | CG25 | - | 15 pcs | Asymmetrical | - | - |
| 910505017427 | BDS490 CG20-/730 II S GR CLO C6K FQQ-PX1 | CG20 | - | 15 pcs | Symmetrical | - | - |
| 910505017428 | BDS490 CG25-/730 II S GR CLO C6K FQQ-PX1 | CG25 | - | 15 pcs | Symmetrical | - | - |
| 910505017429 | BDS490 CG30-/730 II S GR CLO C6K FQQ-PX1 | CG30 | - | 15 pcs | Symmetrical | - | - |
| 912300024680 | BDS490 LED20-/740 I DM GRB DF-S GR CLO S | LED20 | - | - | Distribution medium | Yes | - |
| 912300024681 | BDS490 LED50-/740 I DM GRB DF-S GR CLO S | LED50 | - | - | Distribution medium | Yes | - |
| 912300024683 | BDS490 LED100-/740 I DM GRB DF-S GR CLO | LED100 | - | - | Distribution medium | Yes | - |
| 912300024686 | BDS490 LED80-/830 I S GRB GR 60 | LED80 | - | - | Symmetrical | Yes | - |
| 912300024688 | BDS490 LED50-/830 II DM GRB GR 60 | LED50 | - | - | Distribution medium | Yes | - |
| 912300024689 | BDS490 LED70-/830 II DM GRB GR 60 | LED70 | - | - | Distribution medium | Yes | - |
| 912300024720 | BDS490 LED50/727 PSD-SR II DM GR SRT 60 | LED50 | 4S | - | Distribution medium | Yes | - |
| 912300024718 | BDS490 LED50/730 PSU II SIF GR PCN 60 | LED50 | 4S | - | Symmetrical | Yes | - |

Initial performance (IEC compliant)

| Order Code | Full Product Name | Init. Color Temperature | Init. Color Rendering Index | Initial | |
|--------------|--|-------------------------|-----------------------------|---------------|--------|
| | | | | luminous flux | lumens |
| 910505017425 | BDS490 CG25-/730 II A GR D11 76 | 3000 K | ≥70 | 2117 lm | |
| 910505017427 | BDS490 CG20-/730 II S GR CLO C6K FQQ-PX1 | 3000 K | ≥70 | 1696 lm | |
| 910505017428 | BDS490 CG25-/730 II S GR CLO C6K FQQ-PX1 | 3000 K | ≥70 | 2117 lm | |
| 910505017429 | BDS490 CG30-/730 II S GR CLO C6K FQQ-PX1 | 3000 K | ≥70 | 2543 lm | |
| 912300024680 | BDS490 LED20-/740 I DM GRB DF-S GR CLO S | 4000 K | 70 | 1579.5 lm | |
| 912300024681 | BDS490 LED50-/740 I DM GRB DF-S GR CLO S | 4000 K | 70 | 3822 lm | |

| Order Code | Full Product Name | Init. Color Temperature | Init. Color Rendering Index | Initial | |
|--------------|---|-------------------------|-----------------------------|---------------|--------|
| | | | | luminous flux | lumens |
| 912300024683 | BDS490 LED100-/740 I DM GRB DF-S GR CLO | 4000 K | 70 | 7546 lm | |
| 912300024686 | BDS490 LED80-/830 I S GRB GR 60 | 3000 K | 80 | 6400 lm | |
| 912300024688 | BDS490 LED50-/830 II DM GRB GR 60 | 3000 K | 80 | 3900 lm | |
| 912300024689 | BDS490 LED70-/830 II DM GRB GR 60 | 3000 K | 80 | 5460 lm | |
| 912300024720 | BDS490 LED50/727 PSD-SR II DM GR SRT 60 | 2700 K | 70 | 3900 lm | |
| 912300024718 | BDS490 LED50/730 PSU II SIF GR PCN 60 | 3000 K | 70 | 4100 lm | |

Light technical

| Order Code | Full Product Name | Scotopic/ photopic lumen ratio | Upward light output ratio |
|--------------|--|--------------------------------|---------------------------|
| | | | |
| 910505017427 | BDS490 CG20-/730 II S GR CLO C6K FQQ-PX1 | 1.24 | 0.03 |

| Order Code | Full Product Name | Scotopic/ photopic lumen ratio | Upward light output ratio |
|------------|-------------------|--------------------------------|---------------------------|
| | | | |

| Order Code | Full Product Name | Scotopic/ photopic lumen ratio | Upward light output ratio |
|--------------|---|--------------------------------------|---------------------------------|
| 910505017429 | BDS490 CG30-/730 II S GR CLO C6K FQQ-PX1 | 1.24 | 0.03 |
| 912300024680 | BDS490 LED20-/740 I DM GRB DF-S GR CLO S | - | 0.034 |
| 912300024681 | BDS490 LED50-/740 I DM GRB DF-S GR CLO S | - | 0.0293 |
| 912300024683 | BDS490 LED100-/740 I DM GRB DF-S GR CLO | - | 0.032 |

| Order Code | Full Product Name | Scotopic/ photopic lumen ratio | Upward light output ratio |
|--------------|--|--------------------------------------|---------------------------------|
| 912300024686 | BDS490 LED80-/830 I S GRB GR 60 | - | 0.0142 |
| 912300024688 | BDS490 LED50-/830 II DM GRB GR 60 | - | 0.0293 |
| 912300024689 | BDS490 LED70-/830 II DM GRB GR 60 | - | 0.0278 |
| 912300024720 | BDS490 LED50/727 PSD-SR II DM GR SRT 60 | - | 0.0282 |
| 912300024718 | BDS490 LED50/730 PSU II S1F GR PCN 60 | - | 0.0059 |

Over time performance (IEC compliant)

| Order Code | Full Product Name | Driver failure rate at 5000 h |
|--------------|--|----------------------------------|
| 910505017425 | BDS490 CG25-/730 II A GR D11 76 | 0.05 % |
| 910505017427 | BDS490 CG20-/730 II S GR CLO C6K FQQ-PX1 | 0.05 % |
| 910505017428 | BDS490 CG25-/730 II S GR CLO C6K FQQ-PX1 | 0.05 % |
| 910505017429 | BDS490 CG30-/730 II S GR CLO C6K FQQ-PX1 | 0.05 % |
| 912300024680 | BDS490 LED20-/740 I DM GRB DF-S GR CLO S | - |
| 912300024681 | BDS490 LED50-/740 I DM GRB DF-S GR CLO S | - |

| Order Code | Full Product Name | Driver failure rate at 5000 h |
|--------------|---|----------------------------------|
| 912300024683 | BDS490 LED100-/740 I DM GRB DF-S GR CLO | - |
| 912300024686 | BDS490 LED80-/830 I S GRB GR 60 | - |
| 912300024688 | BDS490 LED50-/830 II DM GRB GR 60 | - |
| 912300024689 | BDS490 LED70-/830 II DM GRB GR 60 | - |
| 912300024720 | BDS490 LED50/727 PSD-SR II DM GR SRT 60 | - |
| 912300024718 | BDS490 LED50/730 PSU II S1F GR PCN 60 | - |

