



CristalCity – creating ambiance

CristalCity

The innovative CristalCity combines comfortable, high-efficiency lighting with a refined visual personality. Designed for installation heights of 3.5 to 5 m, this stylish, modern fixture enhances the ambiance in any streetscape, be it historical or contemporary. CristalCity has an exclusive light signature: the concentrated light beams create a hologram effect that animates differently depending on your perspective. A wide selection of visual-comfort elements ensures glare-free illumination. CristalCity represents a future-proof investment. The dome of the luminaire, which incorporates the LED module and the driver, is fully replaceable so you can benefit from future developments in LEDs and their associated efficiencies. CristalCity uses the high-performance LED engine with latest LED performance and a wide range of optics to latest standards.

Benefits

- Exclusive light signature
- Lowers energy consumption by up to 80%, with a corresponding reduction in CO2 emissions
- Future-proof

Features

- Perfect balance between classicism and innovation
- Optimized optics to deliver efficient and comfortable lighting levels
- Vandal-proof: triple index IK10 (60 joules)
- Long lifetime of 75khrs up to L92 at Tq +25 °C

Application

- Residential areas
- City centers
- Parks
- Other urban applications

Specifications

| | |
|--|--|
| Type | BDS798 |
| Light source | Build-in LED-module |
| Power | 6 - 72 W |
| Luminous flux | 1600 - 7100 lm |
| Luminaire efficacy | up to 100 lm/W |
| Correlated Color | 3000 K (Warm white) |
| Temperature | 4000 K (Neutral white) |
| Color Rendering Index | ≥80 (3000 K) ≥70 (4000 K) |
| Lumen maintenance at median useful life* | up to L92 |
| 100000 h | |
| Control gear failure rate at median useful life | 10% |
| 100000 h | |
| Performance Ambient Temperature Tq | +25 °C |
| Operating temperature range | -20 to +35 °C |
| Driver | Built-in (self ballasted LED-module) |
| Mains voltage | 220-240 V / 50-60 Hz |
| Inrush current | 40 W: 22 A / 290 µs 75 W: 46 A / 250 µs |

| | |
|------------------------------|---|
| Dimming (integrated): | Lumistep DynaDimer Minicell |
| Controls system input | Dimming via 1-10 V DALI RF regulation |
| Optic | DN10, DN11, DM12, DM50, DW10, DW50, DX10, DS50 |
| Material | Housing: high-pressure aluminum Optical cover: polycarbonate, reinforced against UV |
| Color | Top: white aluminum (RAL9006) Base: Philips dark gray 10714, white AKZO YW266F, Gray Gris 2800 Sablé, AKZO YW 356F Other RAL or AKZO futura colors available on request |
| Connection | Wieland/Adels push-in connector 3-pole mains (and 2-pole control signal) |
| Maintenance | To access the driver, unscrew 5 (non captive) torx screws, from the top, remove the LED-engine (screws) |
| Installation | Post top mounting: Ø 60 mm Recommended mounting height: 3.5-5 m Max SCx: 0.191 m ² |

Versions



BDS798

Product details

CristalCity-BDS798-DPP.tif



Approval and Application

| | |
|--|--|
| Mech. impact protection code | IK10 |
| Surge Protection (Common/Differential) | Luminaire surge protection level until 6 kV differential mode and 6 kV common mode |

Controls and Dimming

| | |
|----------|----|
| Dimmable | No |
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General Information

| | |
|--------------------------|--------------------------------|
| CE mark | CE mark |
| Optical cover/lens type | Polycarbonate bowl/cover clear |
| Driver included | Yes |
| ENEC mark | - |
| Flammability mark | - |
| Light source replaceable | Yes |
| Number of gear units | 1 unit |
| Product Family Code | BDS798 |

Light Technical

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

Mechanical and Housing

| | |
|-------|------|
| Color | Gray |
|-------|------|

General Information

| Order Code | Full Product Name | Luminaire light beam spread | Light source color | Lamp family code | Optic type |
|--------------|---|-----------------------------|----------------------|------------------|-------------------------|
| 912300023992 | BDS798 LED70-4S/830 II DW10 SPP GR C5K | 52° - 7° x 151° | 830 warm white | LED70 | Distribution wide 10 |
| 912300023993 | BDS798 LED71-4S/740 II DW50 SPP GR C5K | 23° - 8° x 152° | 740 neutral white | LED71 | Distribution wide 50 |

Initial Performance (IEC Compliant)

| Order Code | Full Product Name | Init. Corr. Color Temperature | Init. Color Rendering Index | Initial luminous flux |
|--------------|--|-------------------------------|-----------------------------|-----------------------|
| 912300023992 | BDS798 LED70-4S/830 II DW10 SPP GR C5K | 3000 K | ≥80 | 6160 lm |

| Order Code | Full Product Name | Init. Corr. Color Temperature | Init. Color Rendering Index | Initial luminous flux |
|--------------|--|-------------------------------|-----------------------------|-----------------------|
| 912300023993 | BDS798 LED71-4S/740 II DW50 SPP GR C5K | 4000 K | ≥70 | 6192 lm |

