



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 the 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
- Optimised optics to deliver efficient and comfortable lighting levels
- Vandal-proof: triple index IK10 (60 joules)
- Long lifetime of 75 khrs up to L92 at T_q +25 °C

Application

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

Specifications

Type	BDS798
Light source	Built-in LED-module
Power	6 - 72 W
Luminous flux	1,600 - 7,100 lm
Luminaire efficacy	up to 100 lm/W
Correlated Colour	3,000 K (Warm white)
Temperature	4,000 K (neutral white)
Colour Rendering Index	≥80 (3,000 K) ≥70 (4,000 K)
Lumen maintenance at median useful life* 100,000 h	up to L92
Control gear failure rate at median useful life 100,000 h	10%
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
Control system input	Dimming via 1-10 V DALI RF regulation
Optic	DN10, DN11, DM12, DM50, DW10, DW50, DX10, DS50
Material	Housing: high-pressure aluminium Optical cover: polycarbonate, reinforced against UV
Colour	Top: white aluminium (RAL9006) Base: Philips dark grey 10714, white AKZO YW266F, Grey Gris 2800 Sablé, AKZO YW 356F Other RAL or AKZO Futura colours 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 up to 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	PCC
Driver included	Yes
Flammability mark	NO
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

Colour	Grey
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General Information

Order Code	Full Product Name	Luminaire light beam spread	Light source colour	Lamp family code	Optic type
45044100	BDS798 LED70-4S/830 II DW10 SPP GR C5K	52° - 7° x 151°	830 warm white	LED70	Distribution wide 10
45045800	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. Colour Temperature	Init. Colour	
			Rendering Index	Initial luminous flux
45044100	BDS798 LED70-4S/830 II DW10 SPP GR C5K	3000 K	≥80	6160 lm

Order Code	Full Product Name	Init. Corr. Colour Temperature	Init. Colour	
			Rendering Index	Initial luminous flux
45045800	BDS798 LED71-4S/740 II DW50 SPP GR C5K	4000 K	≥70	6192 lm

