



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
- Equipped with Service tag, a QR-based identification system that makes each luminaire uniquely identifiable and provides maintenance, installation and spare part information

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 m²

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
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
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General Information (1/2)

Order Code	Full Product Name	Luminaire light beam spread	Light source color	Lamp family	Optic type
				code	
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

General Information (2/2)

Order Code	Full Product Name	Service tag	Order Code	Full Product Name	Service tag
912300023992	BDS798 LED70-4S/830 II DW10 SPP GR C5K	Yes	912300023993	BDS798 LED71-4S/740 II DW50 SPP GR C5K	-

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

