



# 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 CO<sub>2</sub> 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<sub>q</sub> +25 °C

### Application

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

## Specifications

<b>Type</b>	BDS798
<b>Light source</b>	Built-in LED-module
<b>Power</b>	6 - 72 W
<b>Luminous flux</b>	1,600 - 7,100 lm
<b>Luminaire efficacy</b>	up to 100 lm/W
<b>Correlated Colour</b>	3,000 K (Warm white)
<b>Temperature</b>	4,000 K (neutral white)
<b>Colour Rendering Index</b>	≥80 (3,000 K)
	≥70 (4,000 K)
<b>Lumen maintenance at median useful life*</b>	up to L92
<b>100,000 h</b>	
<b>Control gear failure rate at median useful life</b>	10%
<b>100,000 h</b>	
<b>Performance Ambient Temperature Tq</b>	+25 °C
<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>	40 W: 22 A / 290 µs
	75 W: 46 A / 250 µs

<b>Dimming (integrated):</b>	Lumistep
	DynaDimer
	Minicell
<b>Control system input</b>	Dimming via 1-10 V
	DALI
	RF regulation
<b>Optic</b>	DN10, DN11, DM12, DM50, DW10, DW50, DX10, DS50
<b>Material</b>	Housing: high-pressure aluminium
	Optical cover: polycarbonate, reinforced against UV
<b>Colour</b>	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
<b>Connection</b>	Wieland/Adels push-in connector 3-pole mains (and 2-pole control signal)
<b>Maintenance</b>	To access the driver, unscrew 5 (non-captive) torx screws, from the top, remove the LED-engine (screws)
<b>Installation</b>	Post top mounting: Ø 60 mm
	Recommended mounting height: 3.5-5 m
	Max SCx: 0.191 m²

## Versions



BDS798

## Product details

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### 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

