



# CristalCity

## BDS798 LED70-4S/830 II DW10 SPP GR C5K

Cristal City, LED module 7000 lm, LED, 830 warm white, Power supply unit (On/Off), 220 to 240 V, 50 to 60 Hz, Safety class II, Distribution wide 10, Polycarbonate bowl/cover clear, Grey, Luminaire surge protection level up to 6 kV differential mode and 6 kV common mode, Cable 5.0 m without plug, Spigot for diameter 60 mm

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.

### Product data

General Information		
Lamp family code	LED70 [LED module 7000 lm]	luminaire – January 2018': statistically there is no relevant difference in lumen maintenance between the B50 and, for example, the B10. Therefore, the median useful life (B50) value also represents the B10 value.
Light source replaceable	Yes	
Number of gear units	Unit	
Driver included	Yes	
Remarks	* - According to the Lighting Europe guidance paper 'Evaluating performance of LED based	
	Light source engine type	LED

Product family code	BDS798 [Cristal City]
Lighting Technology	LED
CE mark	Yes
Warranty period	5 years
Flammability mark	-
ENEC mark	-
EU RoHS compliant	Yes

## Light Technical

Upwards light output ratio	0.03
Luminous Flux	6,160 lm
Standard tilt angle post-top	0°
Standard tilt angle side entry	-
Correlated Colour Temperature	3000 K
Luminous efficacy (rated) (nom.)	112 lm/W
Colour rendering index (CRI)	≥80
Light source colour	830 warm white
Optical cover type	Polycarbonate bowl/cover clear
Luminaire light beam spread	52° - 7° x 151°
Optic type outdoor	Distribution wide 10

## Operating and Electrical

Input Voltage	220 to 240 V
Line Frequency	50 to 60 Hz
Inrush current	45 A
Inrush time	0.285 ms
Power Consumption	55 W
Power Factor (Fraction)	0.98
Connection	-
Cable	Cable 5.0 m without plug
Number of products on MCB of 16 A type B	16

## Temperature

Ambient temperature range	-10 to +25 °C
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## Controls and Dimming

Dimmable	No
Driver/power unit/transformer	Power supply unit (On/Off)
Constant light output	No

## Mechanical and Housing

Housing material	Polycarbonate
Reflector material	Polycarbonate
Optic material	Polymethyl methacrylate

Optical cover/lens material	Polymethyl methacrylate
Fixation material	Aluminium
Housing Colour	Grey
Mounting device	Spigot for diameter 60 mm
Optical cover/lens shape	Wide
Optical cover/lens finish	Clear
Overall height	600 mm
Overall diameter	501 mm
Effective projected area	0.193 m <sup>2</sup>

## Approval and Application

Ingress protection code	IP66 [Dust penetration-protected, jet-proof]
Mech. impact protection code	IK10 [20 J vandal-resistant]
Surge Protection (Common/Differential)	Luminaire surge protection level up to 6 kV differential mode and 6 kV common mode
Protection class IEC	Safety class II

## Initial Performance (IEC Compliant)

Luminous flux tolerance	+/-10%
Initial chromaticity	(0.380, 0.390) SDCM <5
Power consumption tolerance	+/-10%
Init. Color Rendering Index Tolerance	+/-2

## Over Time Performance (IEC Compliant)

Control gear failure rate at median useful life 100,000 h	10 %
Lumen maintenance at median useful life* 100,000 h	L90

## Application Conditions

Performance ambient temperature Tq	25 °C
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## Product Data

Order product name	BDS798 LED70-4S/830 II DW10 SPP GR C5K
Full product name	BDS798 LED70-4S/830 II DW10 SPP GR C5K
Full EOC	871869945044100
Order code	45044100
Material no. (12 NC)	912300023992
SAP numerator – quantity per pack	1
EAN/UPC – Product/Case	8718699450441
Numerator – packs per outer box	1
EAN/UPC – Case	8718699450441

Dimensional drawing

