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 until 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 latest standards.

Product data

General Information

Lamp family code	LED70 [LED module 7000 lm]
Light source replaceable	Yes
Number of gear units	1 unit
Driver included	Yes
Remarks	*-Per Lighting Europe guidance paper "Evaluating performance of LED based luminaires - January 2018": statistically there is no relevant difference in lumen maintenance between B50 and for example B10. Therefore, the median useful life (B50) value also represents the B10 value.
Light source engine type	LED
Service tag	Yes

CristalCity

Product family code	BDS798 [Cristal City]		**Optical cover material**	Polymethyl methacrylate
Lighting Technology	LED		**Fixation material**	Aluminum
Flammability mark	–		**Housing Color**	Grey
CE mark	Yes		**Mounting device**	Spigot for diameter 60 mm
ENEC mark	–		**Optical cover shape**	Wide
Warranty period	5 years		**Optical cover finish**	Clear
EU RoHS compliant	Yes		**Overall height**	600 mm
			Overall diameter	501 mm
Light Technical			**Effective projected area**	0.193 m²
Upward light output ratio	0.03			
Luminous Flux	6,160 lm		**Approval and Application**	
Standard tilt angle posttop	0°		**Ingress protection code**	IP66 [Dust penetration-protected, jet-proof]
Standard tilt angle side entry	–		**Mech. impact protection code**	IK10 [20 J vandal-resistant]
Correlated Color Temperature (Nom)	3000 K		**Surge Protection (Common/Differential)**	Luminaire surge protection level until 6 kV
Luminous Efficacy (rated) (Nom)	112 lm/W			differential mode and 6 kV common mode
Color rendering index (CRI)	≥80		**Protection class IEC**	Safety class II
Light source color	830 warm white			
Optical cover type	Polycarbonate bowl/cover clear		**Initial Performance (IEC Compliant)**	
Luminaire light beam spread	52° – 7° x 151°		**Luminous flux tolerance**	+/–10%
Optic type outdoor	Distribution wide 10		**Initial chromaticity**	(0.380, 0.390) SDCM <5
			Power consumption tolerance	+/–10%
Operating and Electrical			**Init. Color Rendering Index Tolerance**	+/–2
Input Voltage	220 to 240 V			
Line Frequency	50 to 60 Hz		**Over Time Performance (IEC Compliant)**	
Inrush current	45 A		**Control gear failure rate at median useful life 100000 h**	10 %
Inrush time	0.285 ms			
Power Consumption	55 W		**Lumen maintenance at median useful life* 100000 h**	L90
Power Factor (Fraction)	0.98			
Connection	–			
Cable	Cable 5.0 m without plug		**Application Conditions**	
Number of products on MCB of 16 A type B	16		**Performance ambient temperature Tq**	25 °C
Temperature			**Product Data**	
Ambient temperature range	–10 to +25 °C		**Order product name**	BDS798 LED70-4S/830 II DW10 SPP GR C5K
			Full product name	BDS798 LED70-4S/830 II DW10 SPP GR C5K
Controls and Dimming			**Full product code**	871869945044100
Dimmable	No		**Order code**	912300023992
Driver/power unit/transformer	Power supply unit (On/Off)		**Material Nr. (12NC)**	912300023992
Constant light output	No		**Numerator – Quantity Per Pack**	1
			EAN/UPC – Product/Case	8718699450441
Mechanical and Housing			**Numerator – Packs per outer box**	1
Housing Material	Polycarbonate		**EAN/UPC – Case**	8718699450441
Reflector material	Polycarbonate			
Optic material	Polymethyl methacrylate			

CristalCity

Dimensional drawing