CristalCity

BDS798 LED71-4S/740 II DW50 SPP GR C5K

Cristal City, LED module 7100 lm, LED, 740 neutral white, Power supply unit (On/Off), 220 to 240 V, 50 to 60 Hz, Safety class II, Distribution wide 50, 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	LED71 [LED module 7100 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
Product family code	BDS798 [Cristal City]

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Lighting Technology	LED
Flammability mark	–
CE mark	Yes
ENEC mark	–
Warranty period	5 years
EU RoHS compliant	Yes

Light Technical

Upward light output ratio	0.03
Luminous Flux	6,192 lm
Standard tilt angle posttop	0°
Standard tilt angle side entry	–
Correlated Color Temperature (Nom)	4000 K
Luminous Efficacy (rated) (Nom)	141 lm/W
Color rendering index (CRI)	≥70
Light source color	740 neutral white
Optical cover type	Polycarbonate bowl/cover clear
Luminaire light beam spread	23° – 8° x 152°
Optic type outdoor	Distribution wide 50

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	44 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

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 material	Polymethyl methacrylate
Fixation material	Aluminum
Housing Color	Grey
Mounting device	Spigot for diameter 60 mm
Optical cover shape	Wide
Optical cover finish	Clear
Overall height	600 mm
Overall diameter	501 mm
Effective projected area	0.193 m²

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 until 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 100000 h	10 %
Lumen maintenance at median useful life* 100000 h	L92

Application Conditions

Performance ambient temperature Tq	25 °C

Product Data

Order product name	BDS798 LED71-4S/740 II DW50 SPP GR C5K
Full product name	BDS798 LED71-4S/740 II DW50 SPP GR C5K
Full product code	871869945045800
Order code	912300023993
Material Nr. (12NC)	912300023993
Numerator – Quantity Per Pack	1
EAN/UPC – Product/Case	8718699450458
Numerator – Packs per outer box	1
EAN/UPC – Case	8718699450458

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Dimensional drawing

Ø 60

70

Ø 501

600

www.lighting.philips.com

2023, September 4 – data subject to change