OSRAM

PL-CUBE-AC -2000-840-G3 DALI

PrevaLED Cube AC DALI | Spot-, Down- and Wallmount Light Engines and Modules

Areas of application

- Hospitality, hotels, restaurants
- Public and commercial buildings
- Offices
- Corridors
- Shops
- Secondary rooms, garages, storerooms, cellars

Product family benefits

- Easy dimming installations due to Touch DIM and corridor function
- Easy connection to AC mains power and DALI interface
- Enables low-cost and compact luminaire designs
- Low profile
- Future-proof dimensions for reliable designs
- Near Lambertian light distribution at 110° beam angle for high quality of light
- Protection against overheating due to thermal derating

Product family features

- Dimming range (DALI): 1…100 %
- Dimensions of DALI version identical to on/off version
- Mains voltage driven LED engine
- Integrated control gear
- Diameter of light emitting surface: 61 mm
- Common mechanic and photometric interfaces
- Initial color consistency: < 3 SDCM
- Lifetime (L70/B50): 50,000 h (temperature at T_C = 70 °C)
- LED module is reinforced isolated to mounting surface
- Photobiological safety according to IEC/TR 62778, risk group RG1

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Product datasheet

Electrical data

Nominal wattage	19.20 W
Rated wattage	19.20 W
Nominal voltage	230 V
Input voltage range	220...240 V
Power factor λ	> 0.90
Type of current	AC

Photometrical data

Total useful luminous flux	2000 lm
Luminous efficacy	104 lm/W
Standard deviation of color matching	≤3 sdcm
Nom. useful luminous flux 120°	1598 lm
Rated useful luminous flux 120°	1598 lm
Color temperature	4000 K
Color rendering index Ra	>80
Light color (designation)	Neutral White
Rated peak intensity	732 cd

Light technical data

Rated beam angle (half peak value)	110.00 °
Starting time	< 0.5 s
Warm-up time (60 %)	< 2.00 s
Beam angle	110 °

Dimensions & weight
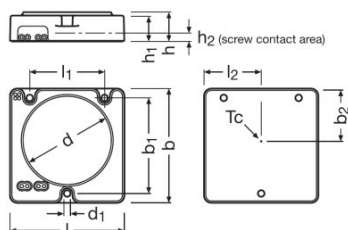
Rated width	81.6 mm [1]

Product datasheet

Construction length	82.8 mm [1]
Rated height	21.20 mm [1]
Product weight	66.00 g

[1] general tolerances ISO 2768-c

Temperatures & operating conditions

Performance temp. acc. to IEC 62717	70 °C
Maximum temperature at tc test point	90 °C
Ambient temperature range	-20...+50 °C [1]
Temperature range at storage	-20...85 °C

[1] T_a (rated) = 25 °C

Lifespan

Lifespan	50000 h
Nominal lamp life time	50000 h
Rated lamp life time	50000 h
Number of switching cycles	100000

Capabilities

Dimmable	Yes
Dimming range	1...100 %
Dimming interface	DALI

Certificates & standards

Energy consumption	17 kWh/1000h
Energy efficiency class	A+
Type of protection	IP20

Logistical data

Commodity code	854370909900

Product datasheet

Guarantee

Additional product information

- Installation by qualified electrician only.
- Please see the relevant application guides and instructions sheets for more detailed safety and mounting information. Additional information is available on request.
- The module / light engine has to be mounted to a proper heat sink in order to ensure that the maximum rated temperature at the T_c point will not be exceeded.
- For safety reasons the LED light engine must not be operated if the housing is damaged.
- Complies with IEC/EN 62031
- Complies with IEC/EN 61547
- Complies with IEC/EN 61000-3-2
- Complies with EN 55015, CISPR 15
- Complies with IEC/EN 62717
- Suitable only for operation with line voltage.
- Parallel connection is mandatory for safe electrical operation. Serial connection of LED modules is stronly discouraged. Unbalanced voltage drop in serial connection can cause hazardous overload and damage the LED module.
- Conducting paths on the circuit board must not be damaged or destroyed during installation.
- Suitable for luminaires of protection class I, grounding is mandatory to comply with safety standards.
- When used in a luminaire of protection class II compliance with the required safety standards has to be ensured by the luminaire manufacturer.
- This LED module is not recommended to be used in rooms with fast moving parts as the light modulation can cause stroboscopic effects.
- This LED module might interfere with displays and cameras due to modulation.
- The LED module itself and all its components must not be stressed mechanically.
- For optimal cooling a thermal interface material should be applied between LED module and heat sink.
- It is highly recommended to use a thermal interface material (TIM). The TIM needs to enable adequate heat transfer, during installation it has to be taken care not to create air inclusions between surfaces. For this purpose it is recommended to use a heat sink with even and clean surfaces.
- The module must not be attached to wood or other flammable materials.
- Protect against splashes!
- The module, as manufactured, has no inherent protection against corrosion. It is the user's responsibility to provide suitable protection against corrosive agents, such as moisture, condensation and other harmful elements.

Download Data

File

Product datasheet

	User instruction	PrevaLED Cube-AC-G3 DALI
	Brochures	651708_Technical application guide PrevaLED Cube AC DALI light engines (GB)
	Certificates	729283_VDE_Certificate_PrevaLED Cube AC DALI G3
	Certificates	664159_ENEC VDE Certificate: PL Cube AC G3
	Declarations of conformity	664152_EC Declaration of Conformity: PL Cube AC G3 DA
	CAD data	664810_CAD Datei IGES: PL Cube AC DALI G3
	CAD data	664811_CAD Daten STEP: PL Cube AC DALI G3
	CAD data	664812_CAD Datei Parasolid: PL Cube AC DALI G3
	CAD data 3-dim	666261_CAD Data 3D PDF: PL CUBE AC DALI G3

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899318083	PL-CUBE-AC -2000-840-G3 DALI	Shipping carton box 20	481 mm x 393 mm x 51 mm	9.64 dm³	1598.00 g

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

References / Links

For more information on the multi-level guarantee and the terms and conditions of the guarantee visit
▶   www.osram.com/system-guarantee

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.