

## PL-CUBE-AC-G3 -2000-840

PrevaLED Cube AC G3 | Spot-, Down- and Wallmount Light Engines and Modules



### Areas of application

- Suitable for diffuser and reflector luminaires
- Hospitality, hotels, restaurants
- Public and commercial buildings
- Offices
- Secondary rooms, garages, storerooms, cellars

### Product family benefits

- 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
- 5 year guarantee



## Product datasheet

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### Product family features

- 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  $T_c = 70 \text{ °C}$ )
- LED module is reinforced isolated to mounting surface
- Photobiological safety according to IEC/TR 62778, risk group RG1

## Product datasheet

### Technical data

#### Electrical data

Nominal wattage	18.80 W
Rated wattage	18.80 W
Nominal voltage	230 V
Input voltage range	220...240 V
Power factor $\lambda$	> 0.90
Type of current	AC

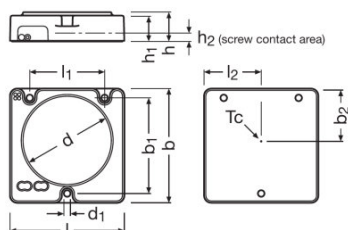
#### Photometrical data

Total useful luminous flux	2000 lm
Luminous efficacy	106 lm/W
Standard deviation of color matching	$\leq 3$ sdcn
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	< 1.0 s
Warm-up time (60 %)	< 2.00 s
Beam angle	110 °

#### Dimensions & weight



Rated width	81.6 mm <sup>1)</sup>
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## Product datasheet

Construction length	82.8 mm <sup>1)</sup>
Rated height	21.10 mm <sup>1)</sup>
Product weight	60.80 g

<sup>1)</sup> 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 <sup>1)</sup>
Temperature range at storage	-20...85 °C

<sup>1)</sup> T<sub>a</sub> (rated) = 25 °C

### Lifespan

Lumen main.fact.at end of nom.life time	0.70
Lifespan	50000 h <sup>1)</sup>
Nominal lamp life time	50000 h
Rated lamp life time	50000 h
Number of switching cycles	100000

<sup>1)</sup> L70/B50

### Additional product data

Typical thermal load	12.9 W
Maximum thermal load	15.5 W

### Capabilities

Dimmable	No
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### Certificates & standards

Energy consumption	20 kWh/1000h
Energy efficiency class	A+
Standards	CE/ENEC/CB VDE
Type of protection	IP20

### Logistical data








Commodity code	854370909900
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## Product datasheet

### 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 strongly 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	
	User instruction PrevaLED Cube-AC-G3
	Certificates 729284_VDE_Certificate_PrevaLED Cube AC G3
	Certificates PL FLAT CUBE CORE COIN EMC 40038324 211119
	Certificates 664150_CB VDE Certificate: PL Cube AC G3
	Certificates 664159_ENEC VDE Certificate: PL Cube AC G3
	Declarations of conformity 664153_EC Declaration of Conformity: PL Cube AC G3
	CAD data 664804_CAD Data IGES: PrevaLED Cube AC G3

## Product datasheet



CAD data  
664805\_CAD Datei STEP: PrevaLED Cube AC G3



CAD data  
664806\_CAD Datei Parasolid: PrevaLED Cube AC G3



CAD data PDF  
664157\_CAD Data 3D PDF: PL Cube AC G3

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899952720	PL-CUBE-AC-G3 -2000-840	Shipping carton box 20	481 mm x 393 mm x 51 mm	9.64 dm <sup>3</sup>	1494.00 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](http://www.osram.com/system-guarantee)

### Disclaimer

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