

PL-CUBE-AC-G3 -2000-830

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

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 λ | > 0.90 |
| Type of current | AC |

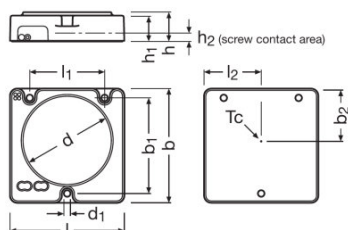
Photometrical data

| | |
|--------------------------------------|---------------|
| Total useful luminous flux | 2000 lm |
| Luminous efficacy | 106 lm/W |
| Standard deviation of color matching | ≤ 3 sdcn |
| Nom. useful luminous flux 120° | 1598 lm |
| Rated useful luminous flux 120° | 1598 lm |
| Color temperature | 3000 K |
| Color rendering index Ra | >80 |
| Light color (designation) | Warm 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 ¹⁾ |
|-------------|-----------------------|

Product datasheet

| | |
|---------------------|------------------------|
| Construction length | 82.8 mm ¹⁾ |
| Rated height | 21.10 mm ¹⁾ |
| Product weight | 60.80 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

| | |
|---|-----------------------|
| Lumen main.fact.at end of nom.life time | 0.70 |
| Lifespan | 50000 h ¹⁾ |
| Nominal lamp life time | 50000 h |
| Rated lamp life time | 50000 h |
| Number of switching cycles | 100000 |

¹⁾ L70/B50

Additional product data

| | |
|----------------------|--------|
| Typical thermal load | 12.9 W |
| Maximum thermal load | 15.5 W |

Capabilities

| | |
|----------|----|
| Dimmable | No |
|----------|----|

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 |
|----------------|--------------|

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 |
|---------------|-------------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4052899952713 | PL-CUBE-AC-G3 -2000-830 | Shipping carton box 20 | 481 mm x 393 mm x 51 mm | 9.64 dm ³ | 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

Disclaimer

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