

## PL-CUBE -3000-840-G3

PrevaLED Cube 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

- Low height for compact luminaire designs
- Near Lambertian light distribution at 110° beam angle for high quality of light
- Robust design for easy thermal management and long lifetime



## Product datasheet

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### Product family features

- Consistent white light: < 3 SDCM
- Temperature at  $t_p$  point (according to IEC/PAS 62717): 75 °C
- Diameter of light emitting surface: 61 mm
- Lifetime (L70/B50): 50,000 h (temperature at  $T_c = 75$  °C)
- Common mechanic and optical connection for standard heat sinks and reflectors
- LEDset2 interface for operation with OTi DALI drivers
- Current setting and thermal shutdown via LEDset2 interface
- LED module is basic isolated to mounting surface
- Photobiological safety according to IEC/TR 62778, risk group RG1
- Max. working voltage: 60 V (to be operated only on SELV LED control gear)

# Product datasheet

## Technical data

### Electrical data

Nominal wattage	23.30 W
Rated wattage	23.30 W
Nominal current	0.698 A
Nominal voltage	33.0 V
Type of current	DC

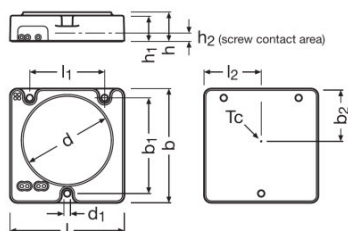
### Photometrical data

Total useful luminous flux	3000 lm
Luminous efficacy	129 lm/W
Standard deviation of color matching	≤3 sdc <sub>m</sub>
Rated useful luminous flux 120°	2396 lm
Color temperature	4000 K
Color rendering index Ra	>80
Light color (designation)	Neutral White
Rated peak intensity	1096 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 <sup>1)</sup>
Construction length	82.8 mm <sup>1)</sup>
Rated height	21.10 mm <sup>1)</sup>

## Product datasheet

<b>Product weight</b>	50.00 g
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<sup>1)</sup> general tolerances ISO 2768-c

### Temperatures & operating conditions

<b>Performance temp. acc. to IEC 62717</b>	75 °C
<b>Maximum temperature at tc test point</b>	90 °C
<b>Ambient temperature range</b>	-20...+50 °C <sup>1)</sup>

<sup>1)</sup>  $T_a$  (rated) = 25 °C

### Lifespan

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

### Capabilities

<b>Dimmable</b>	Yes
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### Certificates & standards

<b>Energy consumption</b>	24 kWh/1000h
<b>Energy efficiency class</b>	A+
<b>Standards</b>	CE/ENEC

### Logistical data







<b>Commodity code</b>	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.
- 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
- LED modules are dimmable by means of PWM (pulse width modulation). It is recommended using the following OSRAM control gears: OPTOTRONIC OT DIM, OT DALI DIM or OPTOTRONIC 24 V power supplies with integrated 1...10 V dimming interface.
- Not suitable for operation with line voltage.
- Electrical contact is achieved with the contact cables or the terminals of the module. Please refer to the technical data for maximum number of LED modules that can be operated on one control gear.
- In order to operate OSRAM LED modules safely, it is absolutely necessary to operate them with an electronically stabilized power supply that protects against short circuits, overload and overheating.
- In case other power supplies than OSRAM OPTOTRONIC are used, compliance to the necessary operating parameters (voltage, current, power) has to be ensured.
- Pay attention to polarity! Wrong polarity can cause destruction or malfunction of the 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.
- 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-G3
	Brochures 684162_Technical application guide PrevaLED Cube G3 LED modules (GB)
	Certificates PL BA ENEC 40031612 161219
	Declarations of conformity 664154_EC Declaration of Conformity: PL Cube G3
	CAD data 664803_CAD Data STEP: PrevaLED Cube G3
	CAD data 664807_CAD Data PDF: PrevaLED Cube G3

## Product datasheet



CAD data  
664808\_CAD Data IGES: PrevaLED Cube G3



CAD data  
664809\_CAD Datei Parasolid: PrevaLED Cube G3

### Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4052899338661	PL-CUBE -3000-840-G3	Shipping carton box 20	481 mm x 393 mm x 51 mm	9.64 dm <sup>3</sup>	1278.00 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.