

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 family 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 family datasheet

Technical data

Electrical data

Product description	Nominal wattage	Rated wattage	Nominal voltage	Input voltage range	Power factor λ	Type of current
PL-CUBE-AC-G3 -1100-830	11.30 W	11.30 W	230 V	220...240 V	> 0.90	AC
PL-CUBE-AC-G3 -1100-840	11.30 W	11.30 W	230 V	220...240 V	> 0.90	AC
PL-CUBE-AC-G3 -2000-830	18.80 W	18.80 W	230 V	220...240 V	> 0.90	AC
PL-CUBE-AC-G3 -2000-840	18.80 W	18.80 W	230 V	220...240 V	> 0.90	AC
PL-CUBE-AC-G3 -3000-830	30.40 W	30.40 W	230 V	220...240 V	> 0.90	AC
PL-CUBE-AC-G3 -3000-840	30.40 W	30.40 W	230 V	220...240 V	> 0.90	AC

Photometrical data

Product description	Total useful luminous flux	Luminous efficacy	Standard deviation of color matching	Nom. useful luminous flux 120°	Rated useful luminous flux 120°
PL-CUBE-AC-G3 -1100-830	1100 lm	97 lm/W	≤ 3 sdc	879 lm	879 lm
PL-CUBE-AC-G3 -1100-840	1100 lm	97 lm/W	≤ 3 sdc	879 lm	879 lm
PL-CUBE-AC-G3 -2000-830	2000 lm	106 lm/W	≤ 3 sdc	1598 lm	1598 lm
PL-CUBE-AC-G3 -2000-840	2000 lm	106 lm/W	≤ 3 sdc	1598 lm	1598 lm
PL-CUBE-AC-G3 -3000-830	3000 lm	99 lm/W	≤ 3 sdc	2397 lm	2397 lm
PL-CUBE-AC-G3 -3000-840	3000 lm	99 lm/W	≤ 3 sdc	2397 lm	2397 lm

Light technical data

Product description	Rated beam angle (half peak value)	Starting time	Warm-up time (60 %)
PL-CUBE-AC-G3 -1100-830	110.00 °	< 1.0 s	< 2.00 s
PL-CUBE-AC-G3 -1100-840	110.00 °	< 1.0 s	< 2.00 s
PL-CUBE-AC-G3 -2000-830	110.00 °	< 1.0 s	< 2.00 s
PL-CUBE-AC-G3 -2000-840	110.00 °	< 1.0 s	< 2.00 s
PL-CUBE-AC-G3 -3000-830	110.00 °	< 1.0 s	< 2.00 s
PL-CUBE-AC-G3 -3000-840	110.00 °	< 1.0 s	< 2.00 s

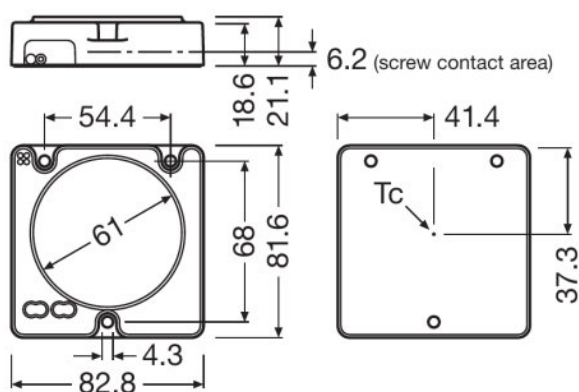
Product family datasheet

Dimensions & weight

Product description	Rated width	Construction length	Rated height	Product weight
PL-CUBE-AC-G3 -1100-830	81.6 mm ¹⁾	82.8 mm ¹⁾	21.10 mm ¹⁾	59.40 g
PL-CUBE-AC-G3 -1100-840	81.6 mm ¹⁾	82.8 mm ¹⁾	21.10 mm ¹⁾	59.40 g
PL-CUBE-AC-G3 -2000-830	81.6 mm ¹⁾	82.8 mm ¹⁾	21.10 mm ¹⁾	60.80 g
PL-CUBE-AC-G3 -2000-840	81.6 mm ¹⁾	82.8 mm ¹⁾	21.10 mm ¹⁾	60.80 g
PL-CUBE-AC-G3 -3000-830	81.6 mm ¹⁾	82.8 mm ¹⁾	21.10 mm ¹⁾	60.80 g
PL-CUBE-AC-G3 -3000-840	81.6 mm ¹⁾	82.8 mm ¹⁾	21.10 mm ¹⁾	60.80 g

¹⁾ general tolerances ISO 2768-c

Product line drawing



PL-CUBE-AC-G3 -1100-830, PL-CUBE-AC-G3 -1100-840, PL-CUBE-AC-G3 -2000-830, PL-CUBE-AC-G3 -2000-840, PL-CUBE-AC-G3 -3000-830, PL-CUBE-AC-G3 -3000-840

Product family datasheet

Temperatures & operating conditions

Product description	Performance temp. acc. to IEC 62717	Maximum temperature at tc test point	Ambient temperature range	Temperature range at storage
PL-CUBE-AC-G3 -1100-830	70 °C	90 °C	-20...+50 °C ¹⁾	-20...85 °C
PL-CUBE-AC-G3 -1100-840	70 °C	90 °C	-20...+50 °C ¹⁾	-20...85 °C
PL-CUBE-AC-G3 -2000-830	70 °C	90 °C	-20...+50 °C ¹⁾	-20...85 °C
PL-CUBE-AC-G3 -2000-840	70 °C	90 °C	-20...+50 °C ¹⁾	-20...85 °C
PL-CUBE-AC-G3 -3000-830	70 °C	90 °C	-20...+50 °C ¹⁾	-20...85 °C
PL-CUBE-AC-G3 -3000-840	70 °C	90 °C	-20...+50 °C ¹⁾	-20...85 °C

¹⁾ T_a(rated) = 25 °C

Lifespan

Product description	Lumen main. fact. at end of nom. life time	Lifespan	Nominal lamp life time	Rated lamp life time	Number of switching cycles
PL-CUBE-AC-G3 -1100-830	0.70	50000 h ¹⁾	50000 h	50000 h	100000
PL-CUBE-AC-G3 -1100-840	0.70	50000 h ¹⁾	50000 h	50000 h	100000
PL-CUBE-AC-G3 -2000-830	0.70	50000 h ¹⁾	50000 h	50000 h	100000
PL-CUBE-AC-G3 -2000-840	0.70	50000 h ¹⁾	50000 h	50000 h	100000
PL-CUBE-AC-G3 -3000-830	0.70	50000 h ¹⁾	50000 h	50000 h	100000
PL-CUBE-AC-G3 -3000-840	0.70	50000 h ¹⁾	50000 h	50000 h	100000

¹⁾ L70/B50

Additional product data

Product description	Maximum thermal load
PL-CUBE-AC-G3 -1100-830	9.7 W
PL-CUBE-AC-G3 -1100-840	9.7 W
PL-CUBE-AC-G3 -2000-830	15.5 W
PL-CUBE-AC-G3 -2000-840	15.5 W
PL-CUBE-AC-G3 -3000-830	25.3 W
PL-CUBE-AC-G3 -3000-840	25.3 W

Capabilities

Product description	Dimmable
PL-CUBE-AC-G3 -1100-830	No
PL-CUBE-AC-G3 -1100-840	No
PL-CUBE-AC-G3 -2000-830	No
PL-CUBE-AC-G3 -2000-840	No
PL-CUBE-AC-G3 -3000-830	No
PL-CUBE-AC-G3 -3000-840	No

Product family datasheet

Certificates & standards

Product description	Energy consumption	Energy efficiency class	Standards
PL-CUBE-AC-G3 -1100-830	12 kWh/1000h	A+	CE/ENEC/CB VDE
PL-CUBE-AC-G3 -1100-840	12 kWh/1000h	A+	CE/ENEC/CB VDE
PL-CUBE-AC-G3 -2000-830	20 kWh/1000h	A+	CE/ENEC/CB VDE
PL-CUBE-AC-G3 -2000-840	20 kWh/1000h	A+	CE/ENEC/CB VDE
PL-CUBE-AC-G3 -3000-830	31 kWh/1000h	A	CE/ENEC/CB VDE
PL-CUBE-AC-G3 -3000-840	31 kWh/1000h	A	CE/ENEC/CB VDE

Logistical data

Product description	Commodity code
PL-CUBE-AC-G3 -1100-830	854370909900
PL-CUBE-AC-G3 -1100-840	854370909900
PL-CUBE-AC-G3 -2000-830	854370909900
PL-CUBE-AC-G3 -2000-840	854370909900
PL-CUBE-AC-G3 -3000-830	854370909900
PL-CUBE-AC-G3 -3000-840	854370909900

Application advice

For more detailed application information and graphics please see product datasheet.

Product family 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.









Sales and Technical Support

Sales and Technical Support www.osram.com

Download Data

File	
	User instruction PrevaLED Cube-AC-G3
	Brochures App Guide PrevaLED Cube AC G3 (GB)
	Certificates 729284_VDE_Certificate_PrevaLED Cube AC G3
	Certificates 540102_VDE license PL Core AC PRO

Product family datasheet

	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
	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
4052899952690	PL-CUBE-AC-G3 -1100-830	Shipping carton box 20	481 mm x 393 mm x 51 mm	9.64 dm ³	1466.00 g
4052899952706	PL-CUBE-AC-G3 -1100-840	Shipping carton box 20	481 mm x 393 mm x 51 mm	9.64 dm ³	1466.00 g
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
4052899952720	PL-CUBE-AC-G3 -2000-840	Shipping carton box 20	481 mm x 393 mm x 51 mm	9.64 dm ³	1494.00 g
4052899952737	PL-CUBE-AC-G3 -3000-830	Shipping carton box 20	481 mm x 393 mm x 51 mm	9.64 dm ³	1494.00 g
4052899952744	PL-CUBE-AC-G3 -3000-840	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

Product family datasheet

Disclaimer

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