

# PrevaLED® COIN 111 AC

## PRELIMINARY Technical Information



### Product features

- Integrated driver, heat sink and lens optics
- Fits in most existing R111 traditional luminaires
- Narrow beam angles, 24° and 40°
- LED replacement up to HID 35W
- Flexibility through 2 lumen packages and 2 CCTs

### Benefits

- Easy & fast design-in for luminaire manufacturers
- Turn-key solution for projects

### Applications

For Spot & Track-light in:

- Chain stores, Retail shops
- Shopping malls
- Exhibition halls
- Museums

### Technical Operating Data

Product	Input Voltage [Vac]	Nominal Power [W]	Radiance Angle [°]	Color Temp. [K]	Nominal Flux [lm]	Lum. Intensity [cd]	Typ. CRI [Ra]	Efficacy [lm/W]
PL-CN111AC-G1 1200-830 24 230V	220-240	15.5	24	3000	1250	4350	83	81
PL-CN111AC-G1 1200-840 24 230V	220-240	15.5	24	4000	1350	4700	83	87
PL-CN111AC-G1 1200-830 40 230V	220-240	15.5	40	3000	1250	2250	83	81
PL-CN111AC-G1 1200-840 40 230V	220-240	15.5	40	4000	1350	2400	83	87
PL-CN111AC-G1 1800-830 24 230V	220-240	22.5	24	3000	1850	6450	83	82
PL-CN111AC-G1 1800-840 24 230V	220-240	22.5	24	4000	1950	6800	83	87
PL-CN111AC-G1 1800-830 40 230V	220-240	22.5	40	3000	1850	3300	83	82
PL-CN111AC-G1 1800-840 40 230V	220-240	22.5	40	4000	1950	3500	83	87

All Data are related to the entire module (Testing at steady status. Ta=25°C ± 5°C. Testing current tolerance: ±5%)

Due to the special conditions of the manufacturing processes of LED the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data

### Technical Features

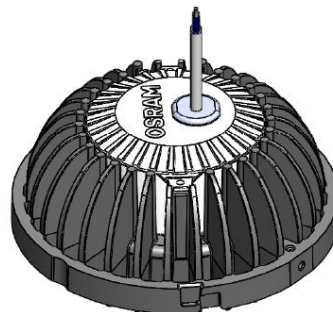
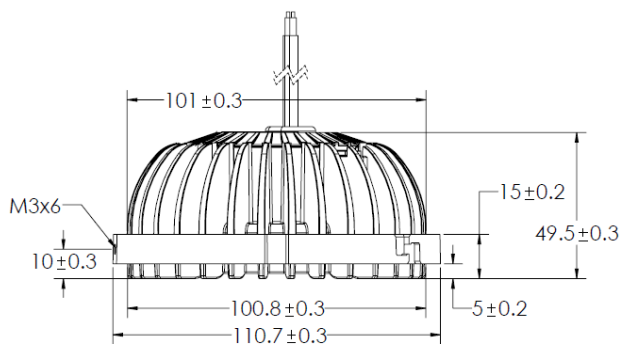
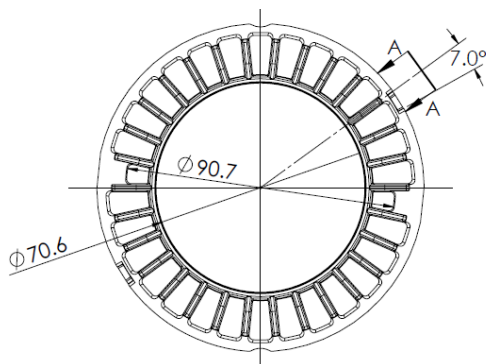
- Module ready to use with two cables
- Cable length 500 mm, cable Ø 2.15 mm
- Color Rendering index CRI (Ra) typ. 83
- Light engine efficacy up to 87 lm/W including driver
- Color tolerance: <MacAdam 4 SDCM
- Max. tc temperature of 80°C (see IEC/PAS 62717)
- L70B50 ≥ 35,000 hours at tp=68°C

## Minimum and Maximum Ratings

Product	Operating Temperature At tc-Point [C°]*	Storage Temperature [C°]*	Input AC voltage range
PL-CN111AC-G1 1200-830 24	-20 ... 80	-40 ... 80	198 - 264
PL-CN111AC-G1 1200-840 24	-20 ... 80	-40 ... 80	198 - 264
PL-CN111AC-G1 1200-830 40	-20 ... 80	-40 ... 80	198 - 264
PL-CN111AC-G1 1200-840 40	-20 ... 80	-40 ... 80	198 - 264
PL-CN111AC-G1 1800-830 24	-20 ... 80	-40 ... 80	198 - 264
PL-CN111AC-G1 1800-840 24	-20 ... 80	-40 ... 80	198 - 264
PL-CN111AC-G1 1800-830 40	-20 ... 80	-40 ... 80	198 - 264
PL-CN111AC-G1 1800-840 40	-20 ... 80	-40 ... 80	198 - 264

\*) Exceeding maximum ratings for operating and storage temperature will reduce expected life time or destroy the LED Module.  
 Exceeding maximum ratings for operating current will cause hazardous overload and will likely destroy the LED Module.  
 The temperature of the LED module must be measured at the tc-point according to EN60598-1 in a thermally constant status with a temperature sensor or a temperature sensitive label. For exact location of the tc-point see drawing below.

## Dimensions & Mechanical data

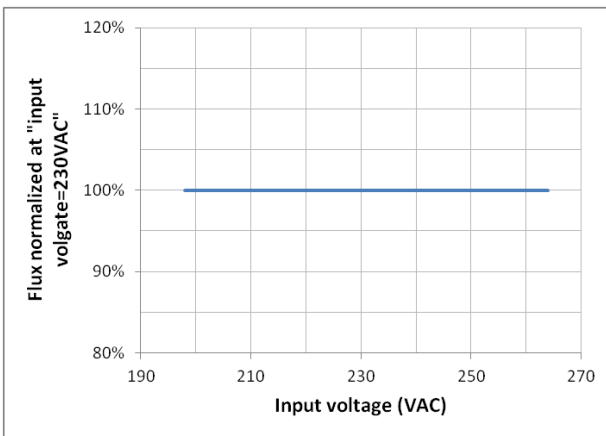
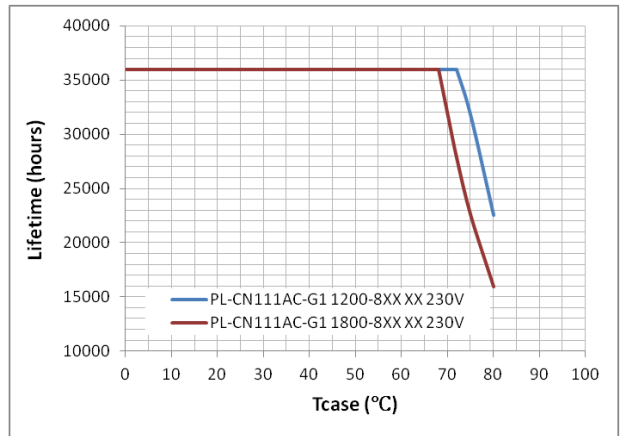
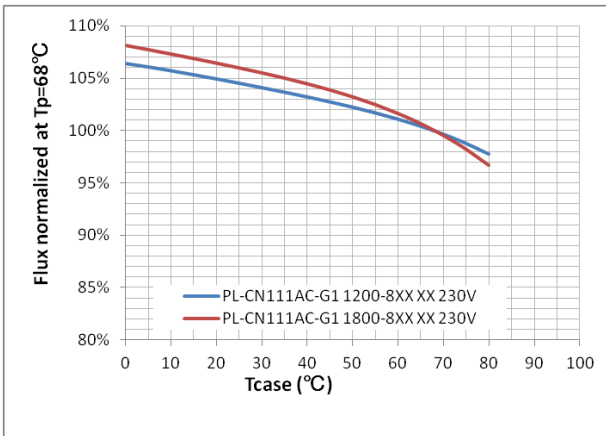


Dimension (mm)	Ø111 x 49.5 (H)
Mounting	AR111 similar
Optics	PC lens
Weight	340 grams

### Standard Compliance

Safety	EN 62031, IEC 60598-1, UL 8750
EMC	EN 55015, EN 61547
Eye Security	EN 62471
Ingress Protection	Dry Location, IP 20
Environment	RoHS

### Electrical Operating Conditions



## Safety Information

- The LED module itself and all its components must not be mechanically stressed.
- Assembly must not damage or destroy conducting paths on the circuit board.
- To avoid mechanical damage to the connecting cables, the module should be attached securely to the intended substrate. Heavy vibration should be avoided.
- Installation of LED modules (with power supplies) needs to be made with regard to all applicable electrical and safety standards. Only qualified personnel should be allowed to perform installations.
- Pay attention to standard ESD precautions when installing the module.
- Damage by corrosion will not be honored as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
- If the IP rating of the fixture should be higher than IP20, the design of the housing should be according to the IP standards in the application.
- Pay attention not to exceed the maximum operation temperature at tc point when the modules are used in enclosed environment.

## Ordering Guide

Product Name	Product Code	Product Number (EAN10)	Product Number (EAN40)	Piece per box
PrevaLED® COIN 111 AC	PL-CN111AC-G1 1200-830 24	4052899165533	4052899165540	12
PrevaLED® COIN 111 AC	PL-CN111AC-G1 1200-840 24	4052899165557	4052899165564	12
PrevaLED® COIN 111 AC	PL-CN111AC-G1 1800-830 24	4052899165571	4052899165588	12
PrevaLED® COIN 111 AC	PL-CN111AC-G1 1800-840 24	4052899165595	4052899165601	12
PrevaLED® COIN 111 AC	PL-CN111AC-G1 1200-830 40	4052899165618	4052899165625	12
PrevaLED® COIN 111 AC	PL-CN111AC-G1 1200-840 40	4052899165632	4052899165649	12
PrevaLED® COIN 111 AC	PL-CN111AC-G1 1800-830 40	4052899165656	4052899165663	12
PrevaLED® COIN 111 AC	PL-CN111AC-G1 1800-840 40	4052899165670	4052899165687	12

## Sales and Technical Support

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Sales and technical support is given by the local  
OSRAM subsidiaries. Complete subsidiaries  
listing is available at OSRAM homepage.