

PrevaLED® Core AC PRO

Optimized to achieve lowest luminaire cost

This unique OSRAM spotlight module with integrated driver is ideal for cost attractive and compact track lights or directional downlights, replacing 20 and 35W HID solutions.



Product description

- **Engine for Spotlights with integrated Driver**
- **Direct connection to 230Vac**
- **Focus portfolio**
 - 2000 – 3000 lm / 3000 - 4000K / CRI >80
- **On/Off only**
- **Smoothing for**
 - System Efficacy up to 103 lm/W
 - 'Flicker free' < 40% modulation

Product Benefits

- **Cost efficient and simpler luminaires possible**
- **Easy design in**
 - Compatible with most Zhaga Book 3 accessories
 - 1 Reflector: LES19
 - Poke-ins for stranded and solid wires
 - Optional holder for easy attachment of optical elements
- **“BOM-saver”**
 - Omission of 'gearbox', cables and cover glass
 - Cost saver on assembly
 - Small and passive cooling thanks to high efficacy
 - Reversible Shutdown
- **Simplified logistics**



Applications

Ideal for cost attractive and compact track lights or directional downlights, replacing 20 and 35W HID solutions

- Spotlighting in retail stores
- Down- and wall lighting in offices, corridors, meeting rooms, workplaces
- Decorative and functional lighting in the hospitality industry
- Applicable for class 1 luminaires



Optical Characteristics @T_p= 65°C

Product	Light Emitting Surface category	Lum. flux typ. 1) [lm]	CCT typ. [K]	CRI typ.	Initial Mac Adam step	Modulation @ 100Hz
PL-CORE-AC PRO-2000-830	LES 19	2000	3000	83	<4	<40%
PL-CORE-AC PRO-2000-840	LES 19	2060	4000	83	<4	<40%
PL-CORE-AC PRO-3000-830	LES 19	3000	3000	83	<4	<40%
PL-CORE-AC PRO-3000-840	LES 19	3090	4000	83	<4	<40%

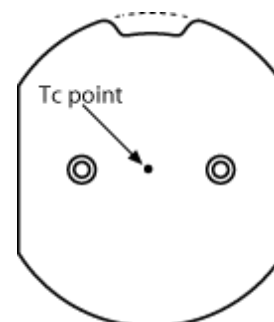
Electrical and Thermal Data

Product	System power typ. ¹⁾ [W]	System efficiency typ. ¹⁾ [lm/W]	Rated input Voltage	T _c (max. temp.) [°]	T _{ambient} [°]	Life time (L70/B50) [h] ¹⁾
PL-CORE-AC PRO-2000-830	20,0	100	220 ~ 240V	85°	-20° ~ 50°	> 50.000
PL-CORE-AC PRO-2000-840	20,0	103	220 ~ 240V	85°	-20° ~ 50°	> 50.000
PL-CORE-AC PRO-3000-830	33,3	90	220 ~ 240V	85°	-20° ~ 50°	> 50.000
PL-CORE-AC PRO-3000-840	33,3	93	220 ~ 240V	85°	-20° ~ 50°	> 50.000

¹⁾ At T_p=65°C

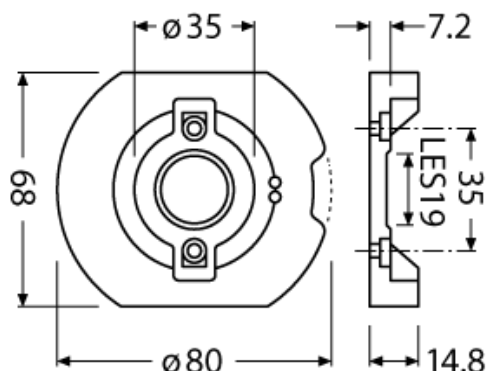
Case temperature

Please measure the case temperature for PrevaLED® Core AC PRO in **the center of the back side** of the light engine. This can be achieved by a thin milled channel or a drilled hole.
tp and tr measurement points are also located at tc point



Mechanical Characteristics

Dimensions of all Core AC PRO module types are identical.
Detailed technical drawings are available thorough OSRAM sales representative.



Core AC PRO sample in Demo Box (April 2014)

General Dimensions

- 68 x Ø 80 mm, 15 mm height
- OCA Diameter: Ø 33mm
- OCA Height: 7.2mm
- Connector:
 - Push in connector and Top Release function
 - Wire cross section: 0.5 - 0.75mm² for EU
 - Compatible with stranded and solid wire
- Protective cover glass on CoB

Improvements (July 2014)

- Outer dimensions remain identical
- Avoid light loss: Closed side walls
- Better reflector compatibility : OCA Ø 35 mm
- Easy wire release : Bigger release holes



Certification & Guaranty

- Certifications:
 - ENEC
 - VDE
 - ErP
- 3 years OSRAM guaranty

Order information

Product name	IC	EAN
PL-CORE-AC PRO-2000-830-230V	AA700510055	4052899928480
PL-CORE-AC PRO-2000-840-230V	AA700520055	4052899928503
PL-CORE-AC PRO-3000-830-230V	AA700530055	4052899928527
PL-CORE-AC PRO-3000-840 -230V	AA700540055	4052899928541

Safety and general notes



Safety Information

- The LED module itself and all its components must not be mechanically stressed.
- When handling the module without use of mountain screws avoid excessive force on the cover as it may be separated from the PCB.
- Installation of LED modules needs to be made with regard to all applicable electrical and safety standards.
- Do not remove the cover or the glass from the module
- PrevaLED Core AC PRO is suitable for luminaire class 1, connection of the earth is mandatory to respect safety standards
- Only qualified personnel should be allowed to perform installations.
- All PrevaLED® Core AC PRO engines have to be classified according to EN 62471-1 in risk group 1 (RG 1). In RG 1, in absence of UV and IR radiation, no labeling is required (TR 62471-2).

Assembly Information

- Please ensure sufficient cooling of light engine For optimum cooling a thermally conducting layer should be applied between module and heat sink.
- The module has to be mounted to a sufficient heat sink with M3 screws.
- Further details and recommendation for mounting can be found in the application guide.

Production information

- Due to the special conditions of the manufacturing processes of LED the 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.
- Exceeding maximum rating for operation and storage will reduce expected lifetime or destroy the module
- ¹⁾ for $T_p = T_r = 65^\circ\text{C}$
- ²⁾ T_c according to IEC 62031 is the highest permissible temperature which may occur at the center backside on the LED Module under normal operating conditions

Sales and Technical Support

OSRAM AG

Contact

For commercial support please contact your local sales representative

On our homepage all OSRAM subsidiaries are listed with complete address and phone numbers.