

Light is OSRAM

OSRAM**PrevaLED® Brick HP IP G2****Dimension (L x B x H):**

- **PL-BRICK HP 2850 2x6 IP G2:**
146 mm x 45 mm x 6 mm

**Features**

- Module efficacy: up to 191 lm/W
- CCT: 2200K, 2700K, 3000K and 4000 K
- Color rendering index Ra > 70
- Initial color consistency: ≤ 5 SDCM
- Average lifetime (L80B10): >100,000 h (up to temperature at Tp = 85 °C)
- Geometry according to Zhaga Book 19
- Compatible to standard outdoor and industry optics, e.g. Ledil STRADA-IP-2x6 series

Typical technical data @rated conditions¹⁾

Product name	Flux (lm)	CCT (K)	CRI ³⁾	SDCM	Uf (V)	If ²⁾ (mA)	P (W)	Efficacy (lm/W)
PL-BRICK HP 2850 722 2x6 IP G2	3172	2200	> 70	5	34.0	700	23.8	133
PL-BRICK HP 2850 727 2x6 IP G2	3524	2700	> 70	5	34.0	700	23.8	148
PL-BRICK HP 2850 730 2x6 IP G2	3877	3000	> 70	5	34.0	700	23.8	163
PL-BRICK HP 2850 740 2x6 IP G2	4112	4000	> 70	5	34.0	700	23.8	173

Typical technical data¹⁾

Product name	Flux (lm)	CCT (K)	CRI	SDCM	Uf (V)	If ²⁾ (mA)	P (W)	Efficacy (lm/W)
PL-BRICK HP 2850 722 2x6 IP G2	1702	2200	> 70	5	33.0	350	11.5	148
	2474	2200	> 70	5	33.5	530	17.8	139
	4519	2200	> 70	5	34.9	1050	36.6	123
PL-BRICK HP 2850 727 2x6 IP G2	1892	2700	> 70	5	33.0	350	11.5	164
	2748	2700	> 70	5	33.5	530	17.8	155
	5021	2700	> 70	5	34.9	1050	36.6	137
PL-BRICK HP 2850 730 2x6 IP G2	2081	3000	> 70	5	33.0	350	11.5	180
	3023	3000	> 70	5	33.5	530	17.8	170
	5523	3000	> 70	5	34.9	1050	36.6	151
PL-BRICK HP 2850 740 2x6 IP G2	2207	4000	> 70	5	33.0	350	11.5	191
	3206	4000	> 70	5	33.5	530	17.8	180
	5857	4000	> 70	5	34.9	1050	36.6	160

¹⁾ Tolerance for optical and electrical data: +/-10%

²⁾ I(max) = 1400mA

³⁾ tolerance for CRI +/-1

Typical values valid for T_p = 55°C

Energy Efficiency Class according 2012/874/EC: A++







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

Temperature ratings

T _p (performance temperature)	55°C
T _c max (maximum temperature)	85°C
T _a (ambient temperature range)	-20°C < T _a < +70°C
T _{stg} (storage temperature range)	-30°C < T _a < +85°C

Cable

For connecting the module OSRAM recommend using cables after AWG Standard and connector data sheet.

					
		8.0 + 1	0.20-0.75	0.20-0.50	0.20-0.75
		mm	mm ²	mm ²	mm ²
			AWG	AWG	AWG
			24-18	24-20	24-18

Connector Type

The BJB 46.141.1001.50 are used in all designs. The CTI is >600.

Approval according to IEC 60947-1, UL 1977

Mounting instructions

Please apply force only to the dedicated mounting positions. Strong mechanical stress can lead to irreversible damage of the LED module.

To fix the LED module to the fixture, you can use M3 screws.

The maximum allowed screw head diameter (without using an isolating washer between the screw and the mounting hole) is 5.5mm. With larger screw heads, the minimum distance between screw and other conductive parts on the LED module can be below the limit for the creepage distances.

The maximum torque that should be applied on the screws depends on factors such as the screw type and luminaire material. It is also influenced by the usage of washers. In most cases, a torque between 0.5 Nm and 1 NM is enough to fix the LED module in the luminaire housing and will not damage the module.

Possible screws

Cylinder head, Torx drive M3 screw (ISO 4762)

Diameter	3.0mm
Head diameter	5.5mm
Head height	3.0mm

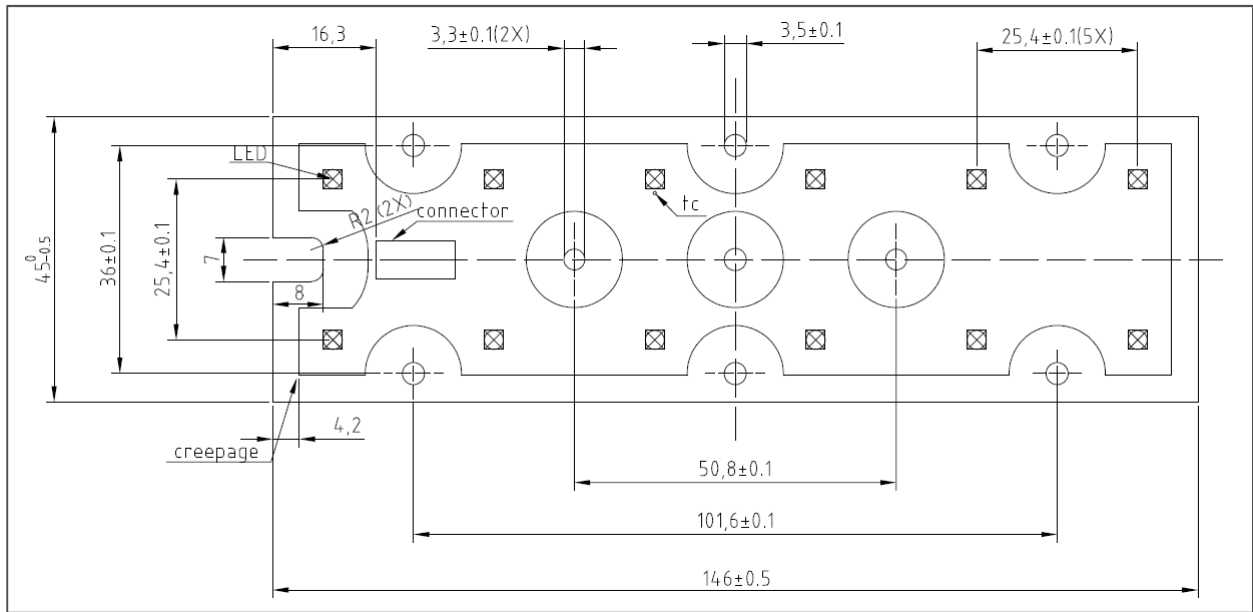
To achieve optimal fixation of the LED module and also optimal thermal management, it is recommended to use all mounting holes in the LED module. Nevertheless, it is possible to reduce the number of screws, but in that case thermal behavior and mechanical strength has to be verified.

In any case, it is strongly recommended to perform mechanical and thermal testing of the LED modules in the luminaire.

Special Note

Either plastic screws / push-fixes or screws with a screw-head with a diameter not bigger than 5.5mm (M3-standard screw)

Dimensioned Drawing



Lifetime Data

CRI 70 versions

		LxBy						
		x	70		80		90	
		y	10	50	10	50	10	50
tp [°C] = 55°C	530 mA	100.000	100.000	100.000	100.000	100.000	100.000	
	700 mA	100.000	100.000	100.000	100.000	100.000	100.000	
	1050 mA	100.000	100.000	100.000	100.000	100.000	100.000	
	1400 mA	100.000	100.000	100.000	100.000	100.000	100.000	
tp [°C] = 70°C	530 mA	100.000	100.000	100.000	100.000	100.000	100.000	
	700 mA	100.000	100.000	100.000	100.000	100.000	100.000	
	1050 mA	100.000	100.000	100.000	100.000	100.000	100.000	
	1400 mA	100.000	100.000	100.000	100.000	80.000	98.000	
tp [°C] = 85°C	530 mA	100.000	100.000	100.000	100.000	100.000	100.000	
	700 mA	100.000	100.000	100.000	100.000	100.000	100.000	
	1050 mA	100.000	100.000	100.000	100.000	38.000	46.000	
	1400 mA	100.000	100.000	100.000	100.000	26.000	32.000	

Ordering Codes

Product name	EAN single product	EAN shipping unit (120pcs)
PL-BRICK HP 2850 722 2x6 IP G2	4062172168472	4062172210294
PL-BRICK HP 2850 727 2x6 IP G2	4062172168496	4062172210317
PL-BRICK HP 2850 730 2x6 IP G2	4062172168519	4062172210379
PL-BRICK HP 2850 740 2x6 IP G2	4062172168533	4062172210355

Safety Information

- The LED module itself and all its components must not be mechanically stressed.

The modules are intended for operation only with matching OPTOTRONIC®.

To also ease the luminaire/installation approval, electronic control gear for LED or LED modules should carry the CE mark.

In Europe the declarations of conformity must include the following standards:
CE: EN 61347-2-13, EN 55015, EN 61547 and EN 61000-3-2 and EN 62384.

Also check for the mark of an independent authorized certification institute.

Please see the relevant brochure for more detailed information (see "Related and Further Information")

- 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.
- Photobiological safety according to IEC/TR 62778, risk group RG1-RG2
- Max. Voltage U-OUT = 575 V for operation on non-isolated and SELV LED control-gear.

Sales and Technical Support

OSRAM GmbH

Marcel-Breuer-Straße 6 D-
80807 München

www.osram.com
+49 89 6213-0

Sales and technical support is given by the
local OSRAM subsidiaries.

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

Note: Typical performance data are subject to change without any further notice, particularly as LED technology evolves.

OSRAM GmbH

Head Office:

Marcel-Breuer-Strasse 6
80807 Munich, Germany
Phone +49 89 6213-0
www.osram.com