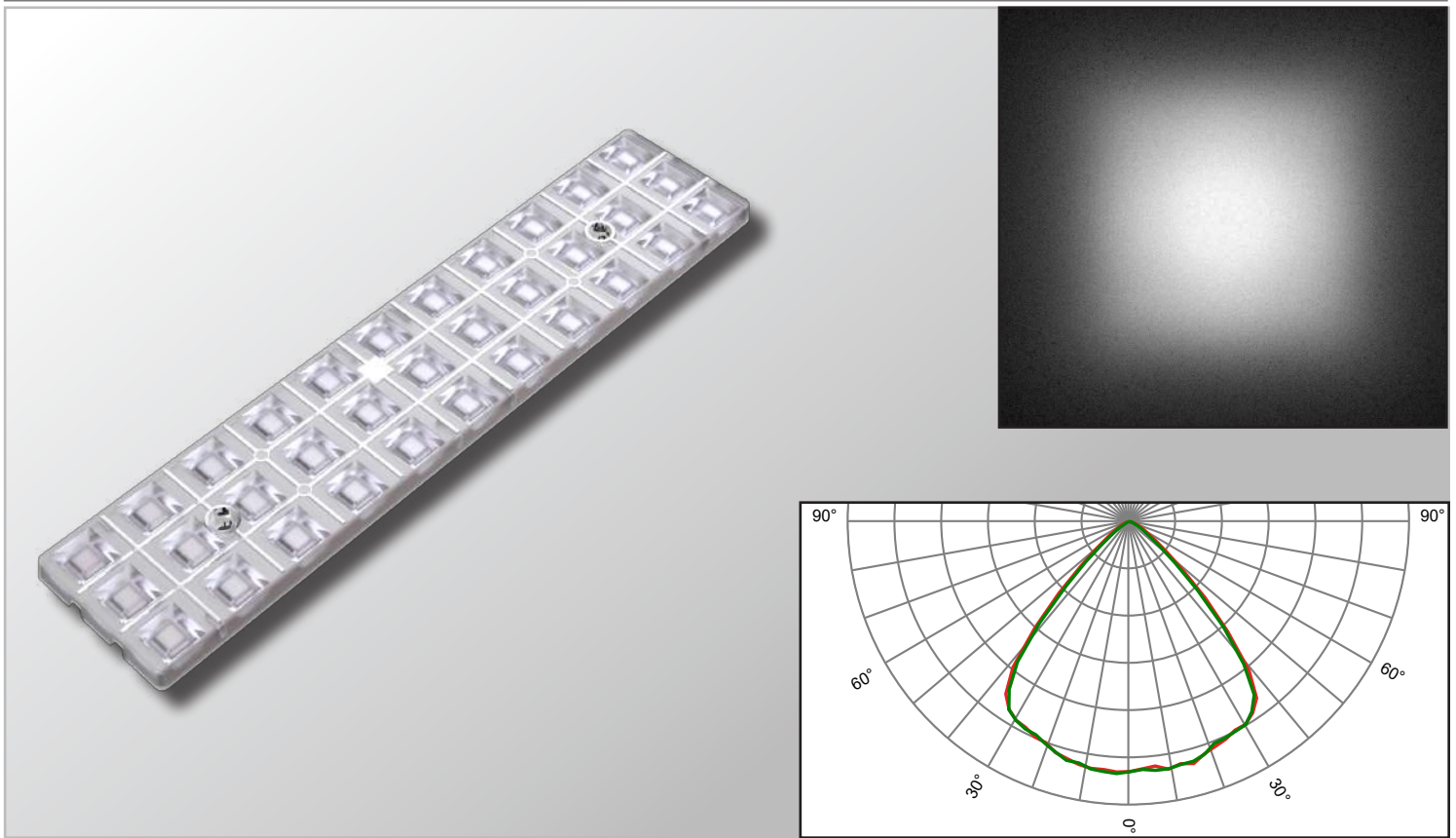


PLL2312UW - Ultra Wide Beam

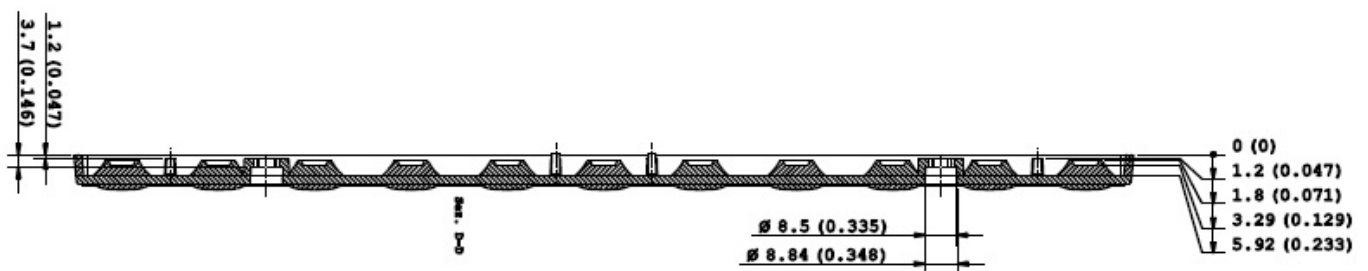


Dimensions	Type of fixing	Material	Beams	LED
286.00mm x 61.00mm side- 5.92mm height	Screw Fixing: [~ 0.8/1.2 Nm] for M4 screws	PMMA	<ul style="list-style-type: none"> <li>Full angle C0-C180 at 50% from maximum: ~ 90°</li> <li>Full angle C0-C180 at 10% from maximum: ~ 115°</li> </ul>	66 LEDs 3.0 x 3.0mm size, and ~2.160 Lu- men@ ~ 33 ½ Watt LEDs

Module with **3x11 optics**, for linear modules according to **Zhaga Book 7**.

Up to 4 LEDs below each optic are possible, increasing the total lumen output of the luminaire.

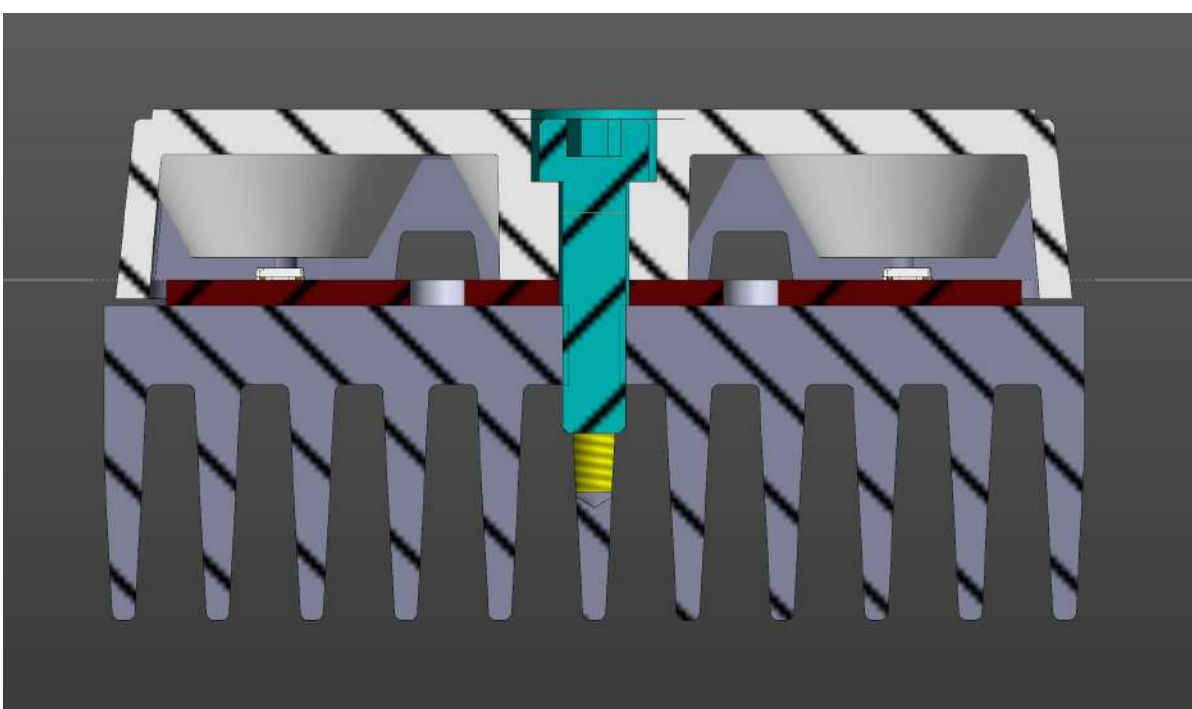
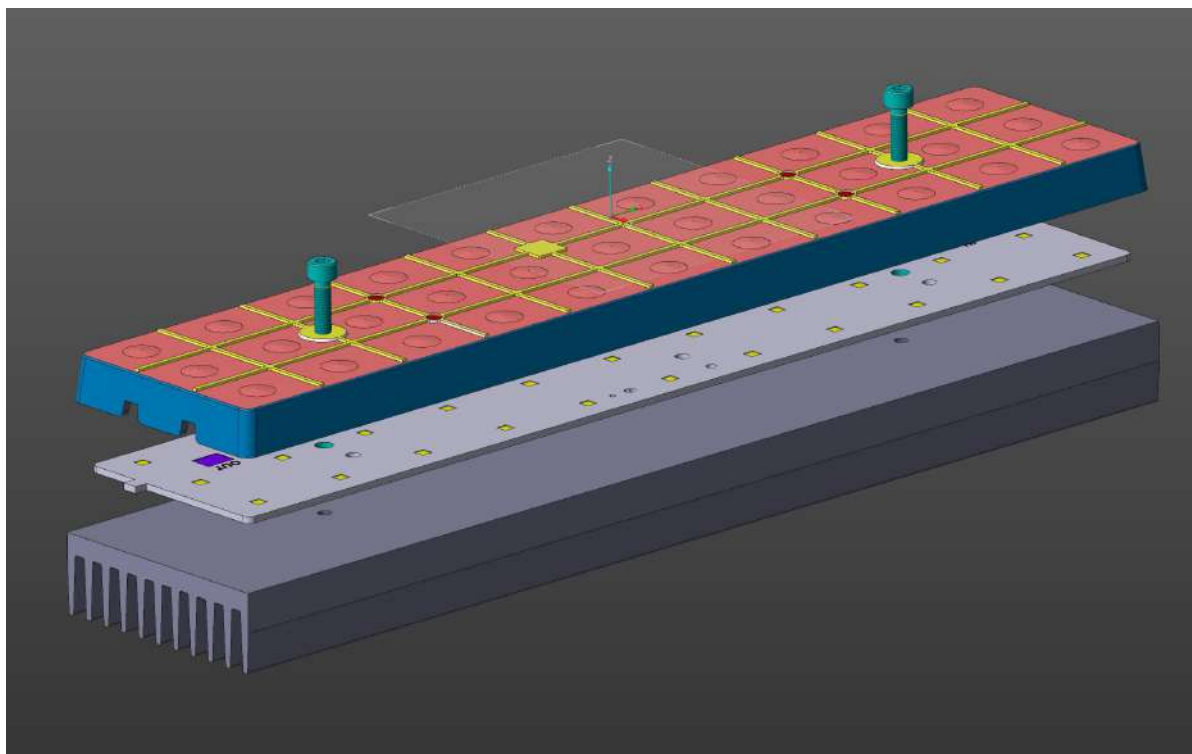
This module has **UGR<22** and **UGR<19** capabilities for highbay and industrial lighting.



## Assembly Specifications

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M4: Maximum tightening torque ~ 0.8/1.2 Nm



## Packaging

Item	Quantity	Total Parts	Size (L*W*H)	G.W.
Multi-pocket plastic bag	20 pieces per multi-pocket plastic bag	20 pcs	110*40 cm	0.8 Kg
Outer Box ( <b>PLL2312EW</b> )	7 multi-pocket plastic bags per Outer Box	140 pcs	49*36.5*31 cm	14.0 Kg
Outer Box ( <b>PLL2312UW</b> )	8 multi-pocket plastic plastic bags per Outer Box	160 pcs	49*36.5*31 cm	15.0 Kg



140 Lenses / Multi-pocket plastic bags (**PLL2312EW**)  
160 Lenses / Multi-pocket plastic bags (**PLL2312UW**)



7 Multi-pocket plastic bags per Outer Box (**PLL2312EW**)  
8 Multi-pocket plastic bags per Outer Box (**PLL2312UW**)

## Materials

Material	Temperatures
PMMA	-40° / + 90°C
• Temperature resistance: long-term	-40° / + 85°C
• Temperature resistance: short exposure	up to + 90°C

### Notes:

- The optical values shown are the result of optical simulations carried out with LIGHTTOOLS, ASAP and ZEMAX software systems. The optical simulations are carried out on the basis of the typical values provided in the LED manufacturers' official datasheets. The photometric analysis has been carried out on physical samples. On request, by supplying your PCB, we can provide the measurement photometric file.

## Use and Maintenance

- DO NOT HANDLE OR INSTALL LENSES WITHOUT WEARING GLOVES, SKIN OILS MAY DAMAGE LENS OR LIGHT TRANSMISSION;
- CLEAN LENSES WITH MILD SOAP AND WATER AND A SOFT CLOTH;
- DO NOT USE ANY COMMERCIAL CLEANING SOLVENTS ON LENSES.

## Disclaimer

Please note that flow lines and weld lines on the external surfaces of the lenses are acceptable if the optical performance of the lens is within the specifications.

Should you require further information, please contact Khatod for advice. All lens testing must be subject to identical conditions as Khatod test condition. Khatod Optoelectronic, Milan, Italy, manufactures lenses for LEDs. Any other use of the lens shall void our liability and warranty. The lenses are an inert component to be used in the manufacture of various products. Our warranty and liability are limited only to the manufacture of the lens. You may not modify, copy, distribute reproduce, license or alter the lens and related materials of Khatod. Khatod does not warrant against damages or defects arising out of the use or misuse of the products; against defects or damage arising from improper installation, or against defects in the product or in its components. No warranty of any kind, expressed or implied, is made regarding the safety of the products. The entire risk as to the quality or performance of the product is with the buyer. In no event

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