

## HB-2X2-WW-BLIND

~65° wide beam without centre screw hole for easier potting

### TECHNICAL SPECIFICATIONS:

Dimensions	50.0 x 50.0 mm
Height	8.5 mm
Fastening	glue, pin
ROHS compliant	yes ⓘ

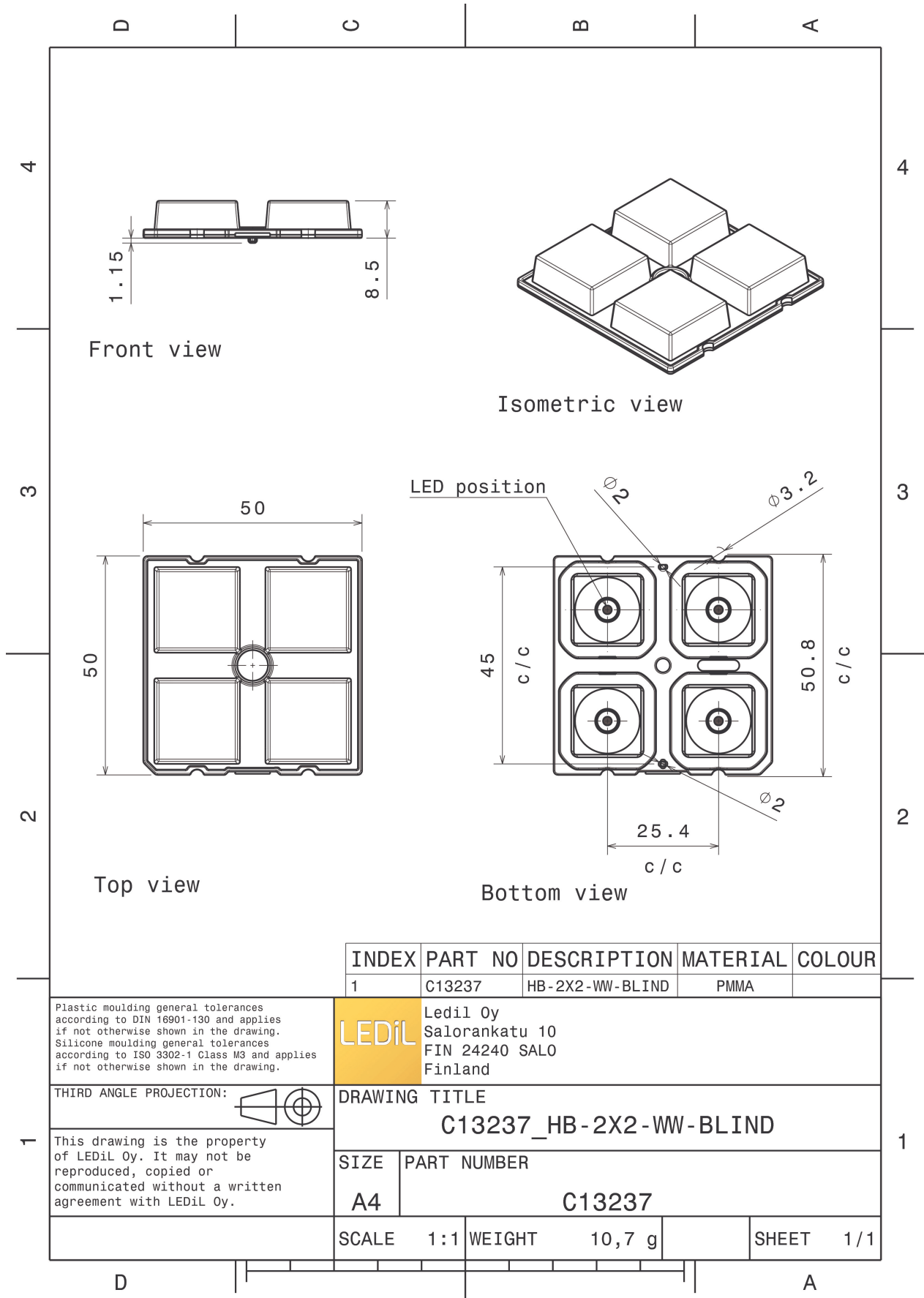
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
HB-2X2-WW-BLIND	Multi-lens	PMMA	clear	

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13237_HB-2X2-WW-BLIND » Box size: 480 x 280 x 300 mm	800	160	160	9.4





INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	C13237	HB-2X2-WW-BLIND	PMMA	

Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing.  
Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.



Ledil Oy  
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Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**C13237\_HB-2X2-WW-BLIND**

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SIZE	PART NUMBER
A4	C13237

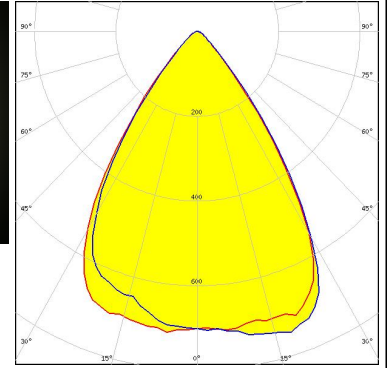
SCALE	1:1	WEIGHT	10,7 g	SHEET	1/1
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See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### PHOTOMETRIC DATA (MEASURED):

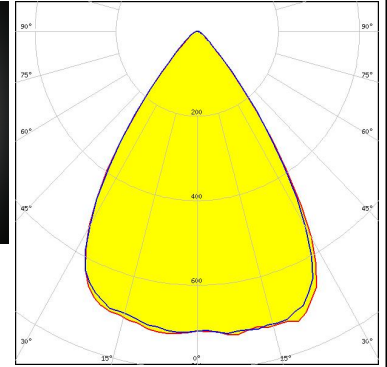
##### CREE LED

LED XP-G  
 FWHM / FWTM 69.0° / 92.0°  
 Efficiency 91 %  
 Peak intensity 0.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



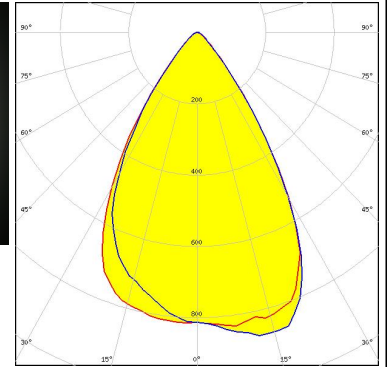
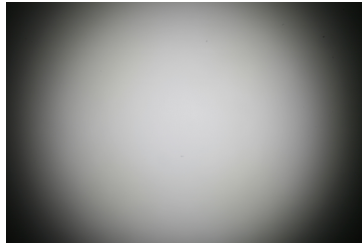
##### CREE LED

LED XP-G2  
 FWHM / FWTM 69.0° / 92.0°  
 Efficiency 91 %  
 Peak intensity 0.7 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



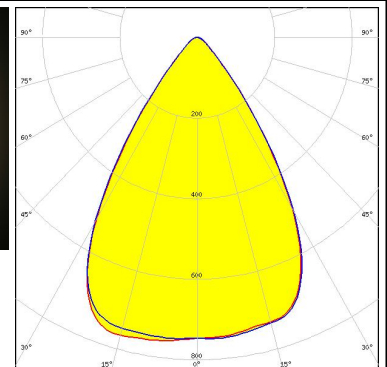
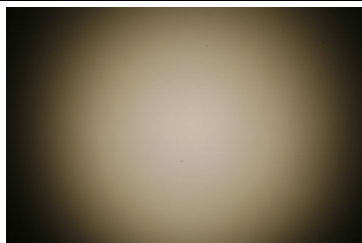
##### CREE LED

LED XT-E  
 FWHM / FWTM 65.0° / 89.0°  
 Efficiency 91 %  
 Peak intensity 0.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### LUMILEDS

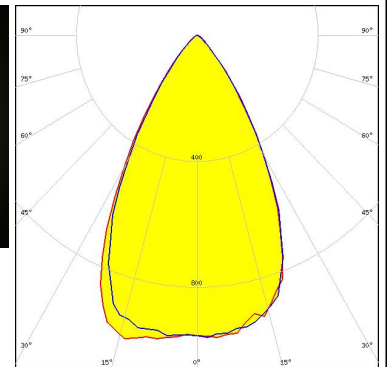
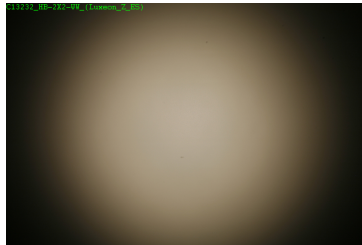
LED LUXEON Q  
 FWHM / FWTM 67.0° / 92.0°  
 Efficiency 91 %  
 Peak intensity 0.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):

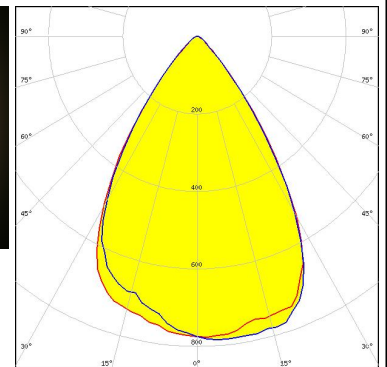
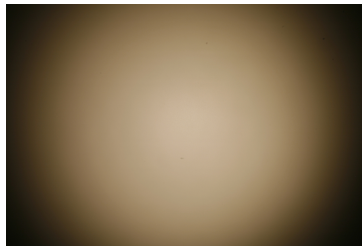
#### LUMILEDS

LED LUXEON Z ES  
 FWHM / FWTM 59.0° / 87.0°  
 Efficiency 90 %  
 Peak intensity 1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



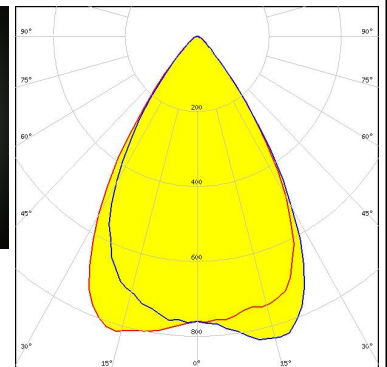
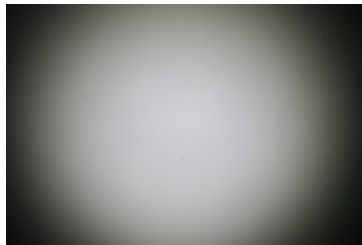
#### NICHIA

LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 67.0° / 92.0°  
 Efficiency 91 %  
 Peak intensity 0.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



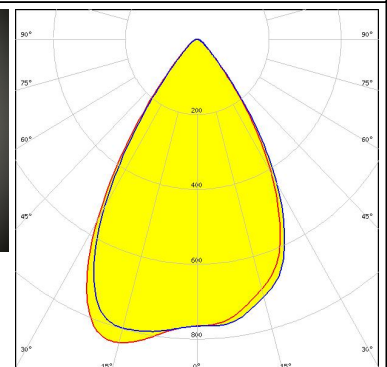
#### OSRAM

Opto Semiconductors  
 LED OSLON Square PC  
 FWHM / FWTM 65.0° / 89.0°  
 Efficiency 91 %  
 Peak intensity 0.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:


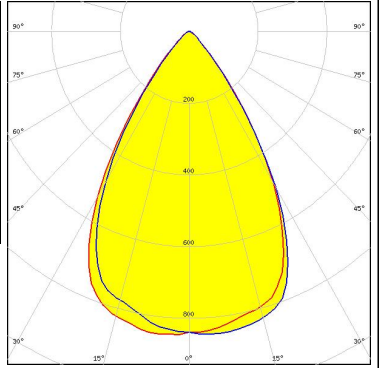

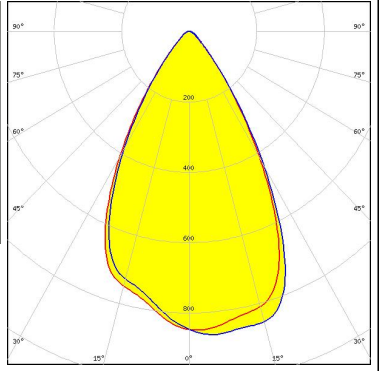

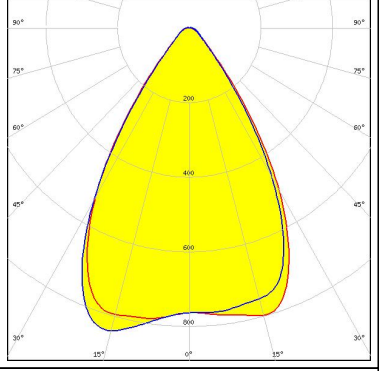

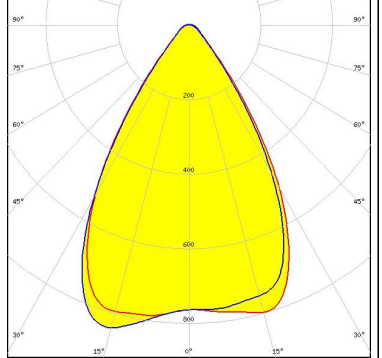


#### SAMSUNG

LED LH351Z  
 FWHM / FWTM 63.0° / 89.0°  
 Efficiency 89 %  
 Peak intensity 0.9 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



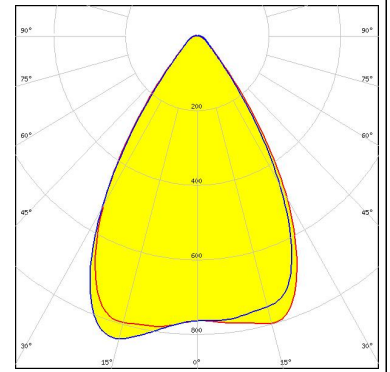
#### PHOTOMETRIC DATA (MEASURED):

<p><b>SEOL</b> SEOUL SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2            FWHM / FWTM 65.0° / 90.0°            Efficiency 90 %            Peak intensity 0.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>TOSHIBA</b> Leading Innovation &gt;&gt;&gt;</p> <p>LED TL1L4            FWHM / FWTM 60.0° / 87.0°            Efficiency 84 %            Peak intensity 0.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>TRIDONIC</b></p> <p>LED RLE G1 49x121mm 2000lm xxx EXC OTD            FWHM / FWTM 67.0° / 93.0°            Efficiency 94 %            Peak intensity 0.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>TRIDONIC</b></p> <p>LED RLE G1 49x133mm 2000lm xxx EXC OTD            FWHM / FWTM 67.0° / 93.0°            Efficiency 94 %            Peak intensity 0.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

#### PHOTOMETRIC DATA (MEASURED):

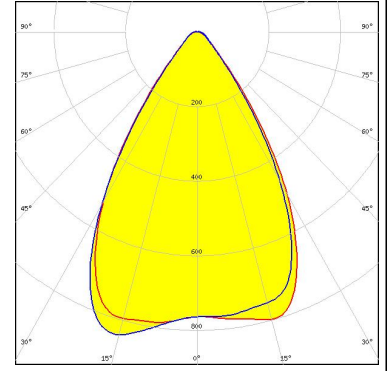
#### TRIDONIC

LED RLE G1 49x223mm 4000lm xxx EXC OTD  
FWHM / FWTM 67.0° / 93.0°  
Efficiency 94 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### TRIDONIC

LED RLE G1 49x245mm 4000lm xxx EXC OTD  
FWHM / FWTM 67.0° / 93.0°  
Efficiency 94 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

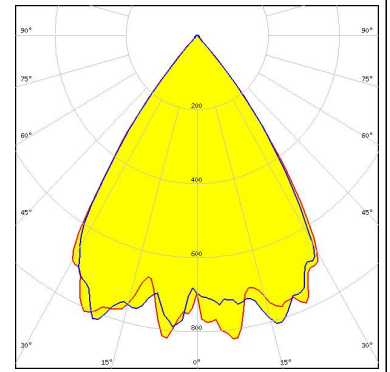


#### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM

Opto Semiconductors

LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	69.0° / 85.0°
Efficiency	94 %
Peak intensity	1.1 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



#### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

#### MATERIALS:

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