

HB-2X2MX-8-M

~30° wide beam. New revision.

TECHNICAL SPECIFICATIONS:

Dimensions	90.0 x 90.0 mm
Height	16.4 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes ⓘ

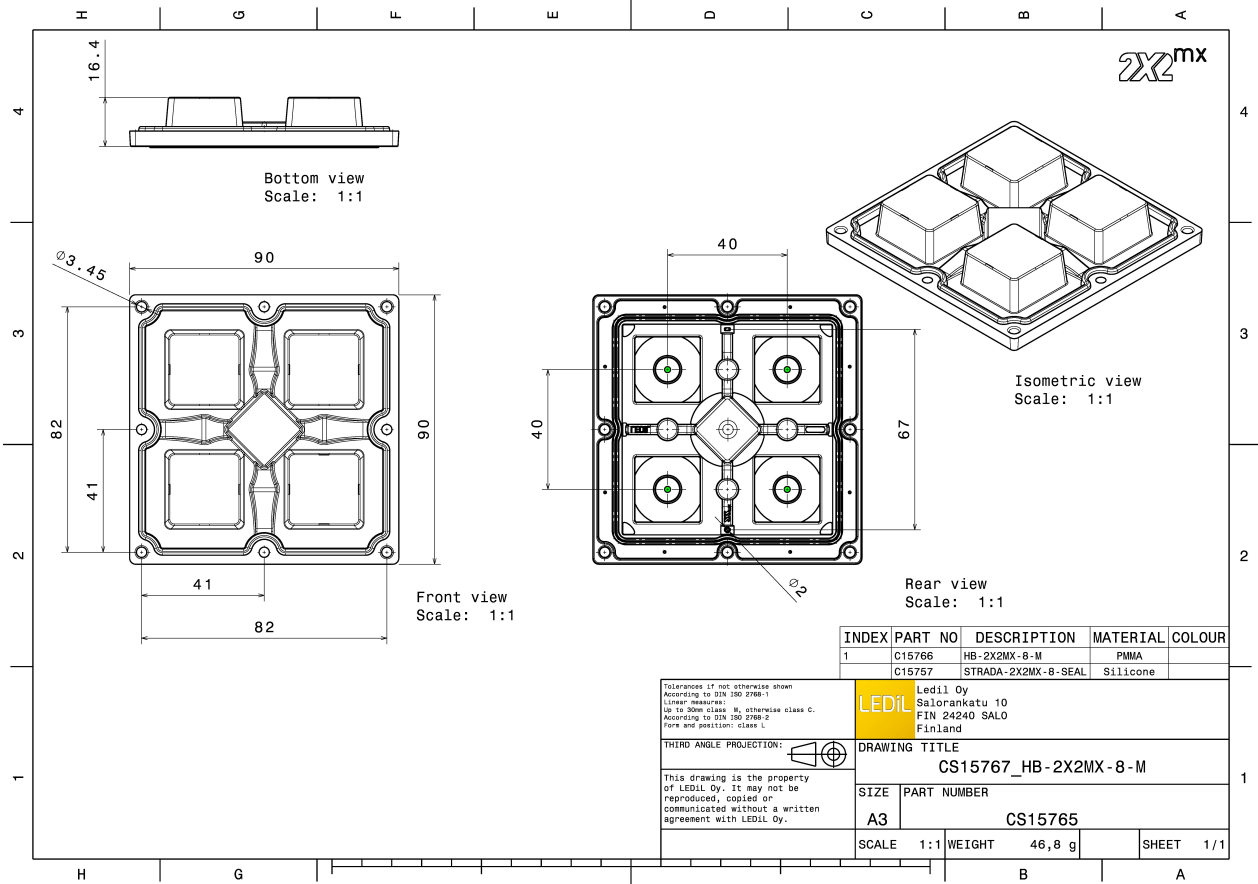
MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
HB-2X2MX-8-M	Multi-lens	PMMA	clear	
STRADA-2X2MX-8-SEAL	Seal	Silicone	clear	



ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15767_HB-2X2MX-8-M	Multi-lens	156	52	52	8.3
» Box size: 480 x 280 x 300 mm					

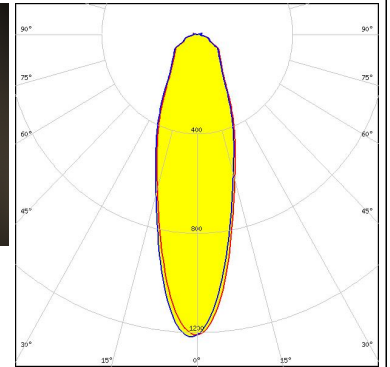
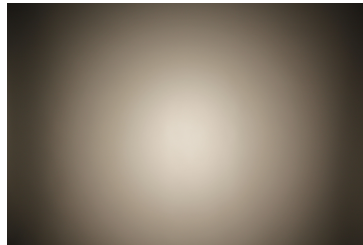


See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

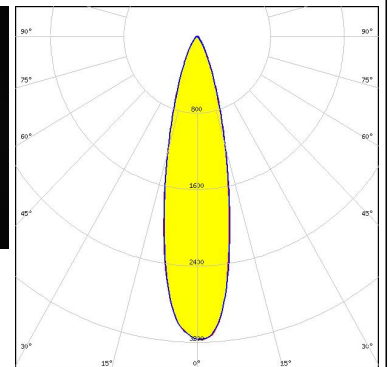
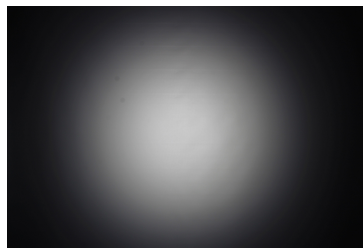
CREE LED

LED CXA/B 15xx
 FWHM / FWTM 31.0° / 101.0°
 Efficiency 91 %
 Peak intensity 1.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 441 Typ 2x2MX HV



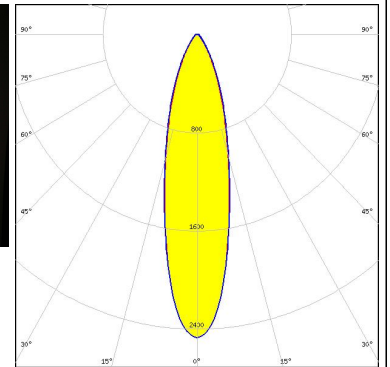
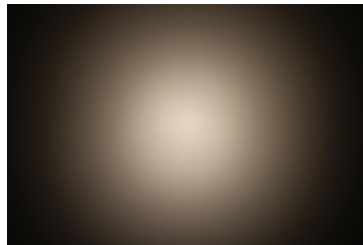
LUMILEDS

LED LUXEON M/MX
 FWHM / FWTM 25.0° / 52.0°
 Efficiency 94 %
 Peak intensity 3.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



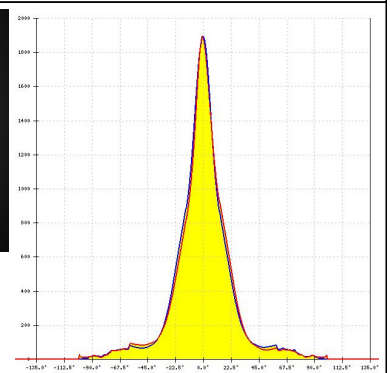
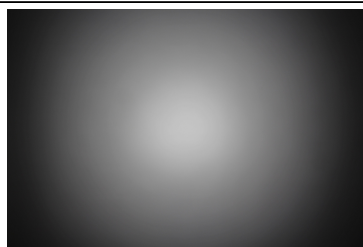
LUMILEDS

LED LUXEON XR-7070
 FWHM / FWTM 26.0° / 61.0°
 Efficiency 94 %
 Peak intensity 2.5 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:


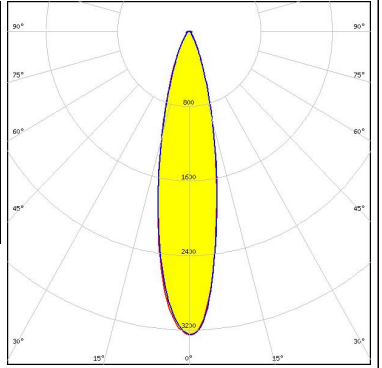
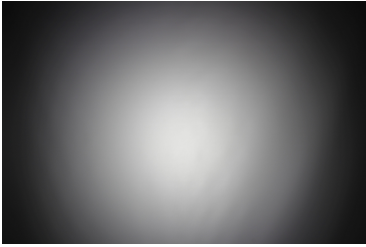
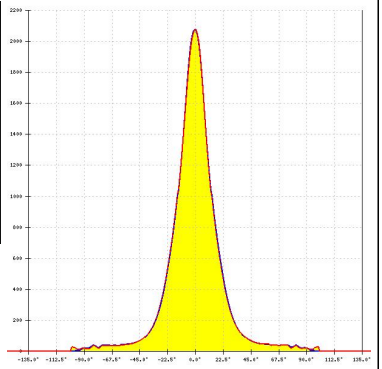


SAMSUNG


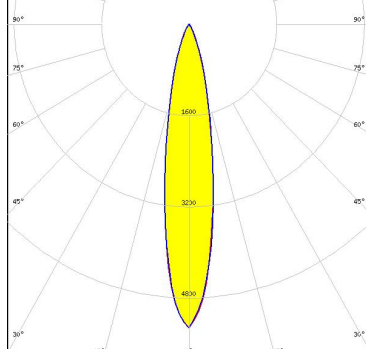
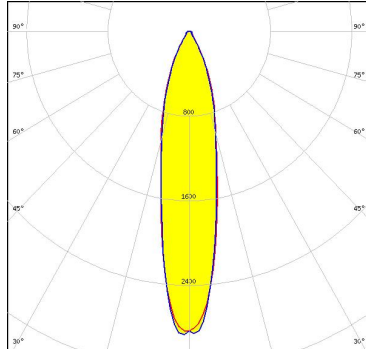

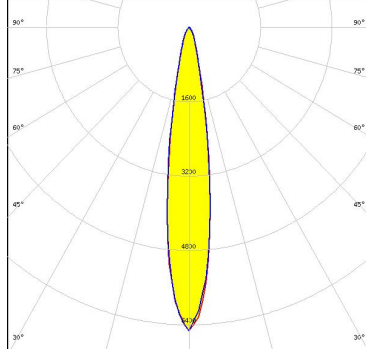

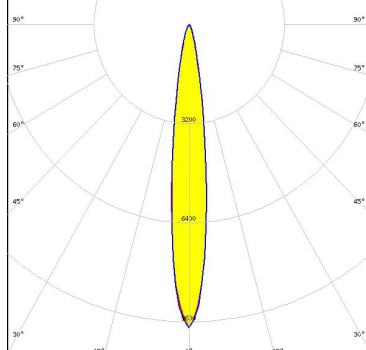
LED HiLOM SC16 (LH181B)
 FWHM / FWTM 25.0° / 64.0°
 Efficiency 93 %
 Peak intensity 1.9 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

<p>SCIOLUX</p> <p>LED XLE-S22C4XD16 (XD16)</p> <p>FWHM / FWTM 23.0° / 50.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 3.3 cd/m</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components:</p>		
<p>SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22</p> <p>FWHM / FWTM 27.0° / 63.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 2.1 cd/m</p> <p>LEDs/each optic 4</p> <p>Light colour White</p> <p>Required components:</p>		

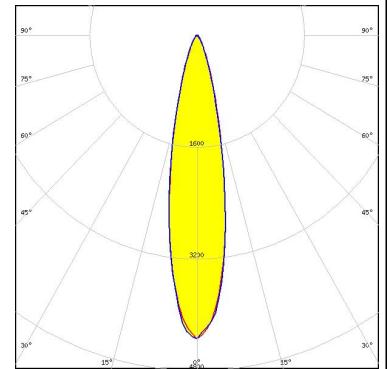
PHOTOMETRIC DATA (SIMULATED):

<p> bridgelux.</p> <p>LED: Bridgelux SMD 5050 FWHM / FWTM: 19.0° / 43.0° Efficiency: 94 % Peak intensity: 5.3 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CITIZEN</p> <p>LED: CLU700/701/702 FWHM / FWTM: 22.0° / 58.0° Efficiency: 92 % Peak intensity: 2.9 cd/lm LEDs/each optic: 1 Light colour: White Required components: Bender Wirth: 434 Typ 2x2MX HV</p>	
<p> CREE LED</p> <p>LED: XHP35 HD FWHM / FWTM: 17.0° / 34.0° Efficiency: 94 % Peak intensity: 6.6 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p> CREE LED</p> <p>LED: XHP35 HI FWHM / FWTM: 14.0° / 30.0° Efficiency: 94 % Peak intensity: 9.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

CREE LED

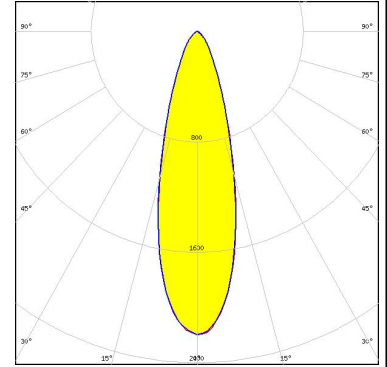
LED XHP50.2
 FWHM / FWTM 22.0° / 44.0°
 Efficiency 94 %
 Peak intensity 4.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE LED

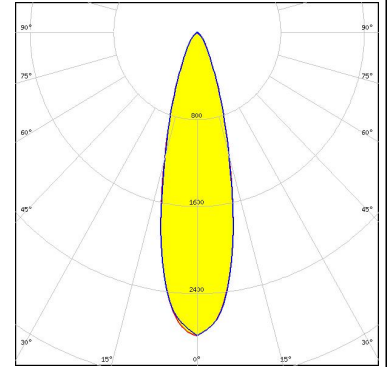
LED XHP70.2
 FWHM / FWTM 30.0° / 62.0°
 Efficiency 91 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

Protective plate, glass



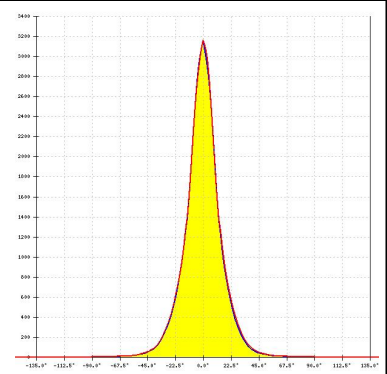
CREE LED

LED XHP70.3
 FWHM / FWTM 28.0° / 56.0°
 Efficiency 96 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

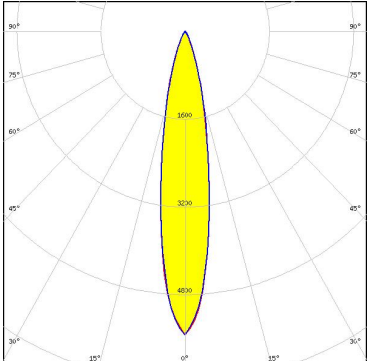
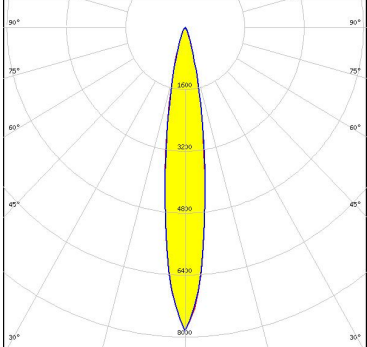
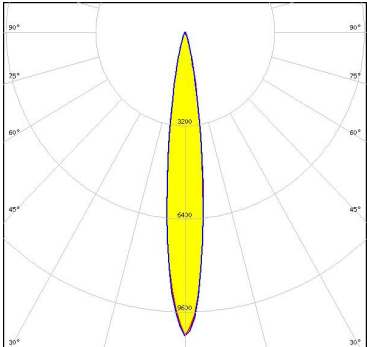
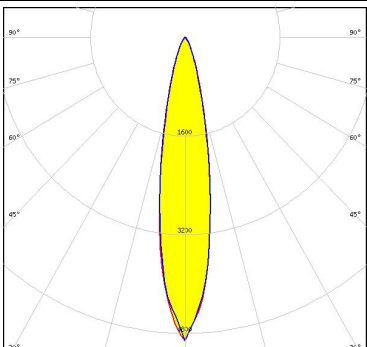


LUMILEDS

LED LUXEON 7070
 FWHM / FWTM 24.0° / 58.0°
 Efficiency 96 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



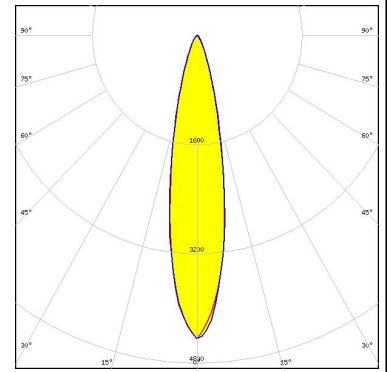
PHOTOMETRIC DATA (SIMULATED):

<p>NICHIA</p> <p>LED: NFMW48xA FWHM / FWTM: 19.0° / 42.0° Efficiency: 94 % Peak intensity: 5.5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>NICHIA</p> <p>LED: NV4WB35AM FWHM / FWTM: 16.0° / 34.0° Efficiency: 97 % Peak intensity: 7.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>NICHIA</p> <p>LED: NVSxE21A FWHM / FWTM: 14.0° / 28.0° Efficiency: 94 % Peak intensity: 10.4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED: Duris S10 FWHM / FWTM: 20.0° / 43.0° Efficiency: 94 % Peak intensity: 4.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

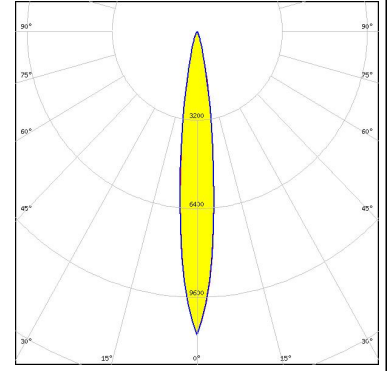
PHILIPS

LED Fortimo FastFlex LED 2x2 70x70 DC G4
FWHM / FWTM 21.0° / 44.0°
Efficiency 94 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



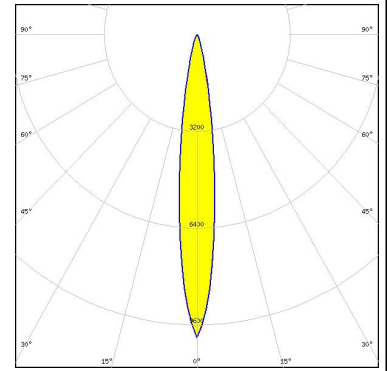
SAMSUNG

LED LH181B
FWHM / FWTM 14.0° / 28.0°
Efficiency 96 %
Peak intensity 11 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED LH231B
FWHM / FWTM 14.0° / 30.0°
Efficiency 96 %
Peak intensity 10 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.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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