

HB-2X2MX-8-M

~30° wide beam. New revision.

SPECIFICATION:

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

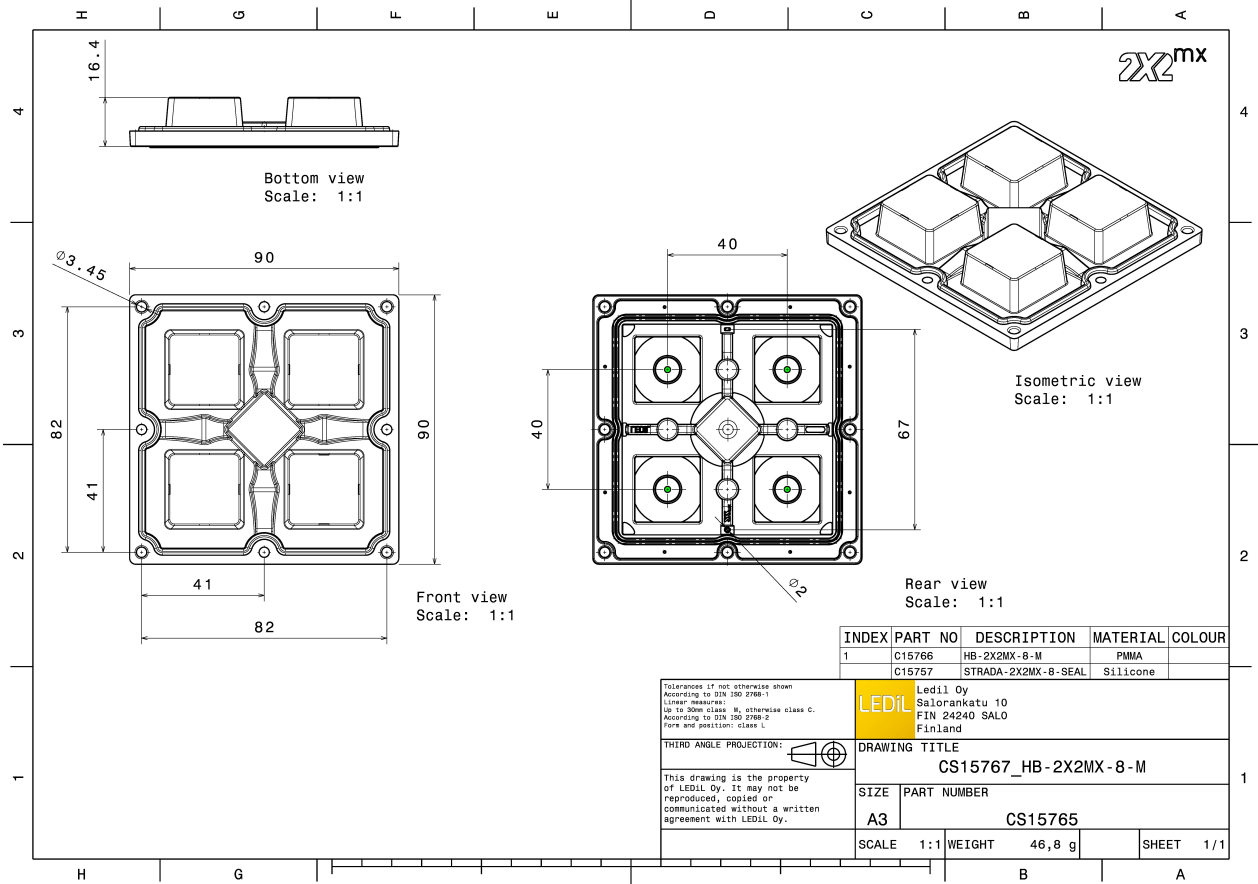
MATERIALS:

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



ORDERING INFORMATION:

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

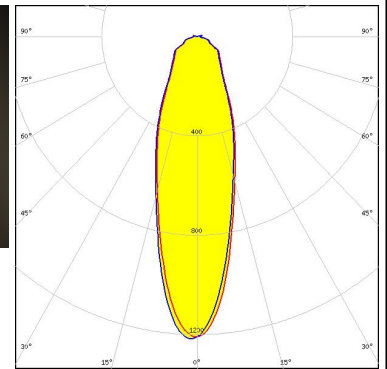
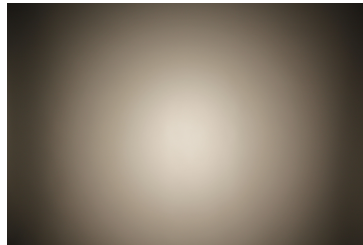


See also our general installation guide: www.ledil.com/installation_guide

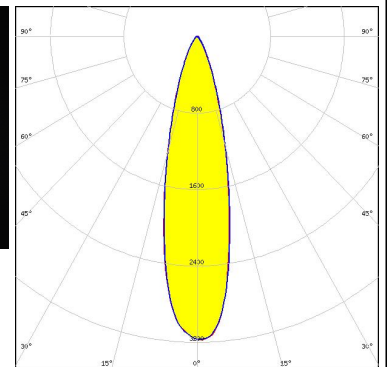
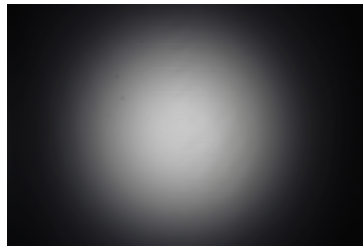
OPTICAL RESULTS (MEASURED):



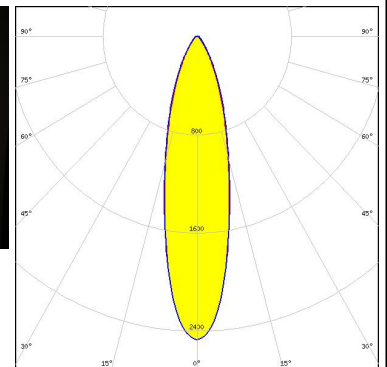
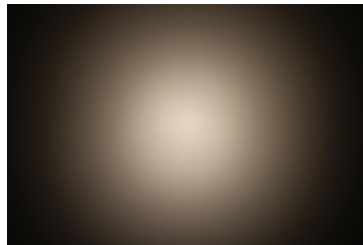
LED CXA/B 15xx
 FWHM / FWTM 31.0° / 101.0°
 Efficiency 91 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:
 Bender Wirth: 441 Typ 2x2MX HV



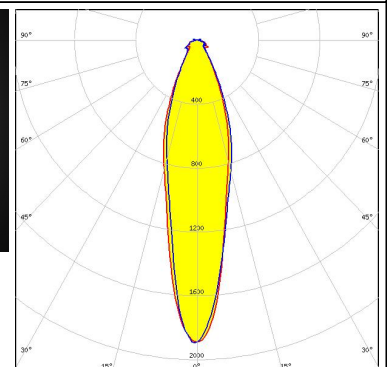
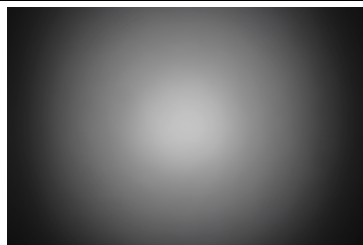
LED LUXEON M/MX
 FWHM / FWTM 25.0° / 52.0°
 Efficiency 94 %
 Peak intensity 3.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:




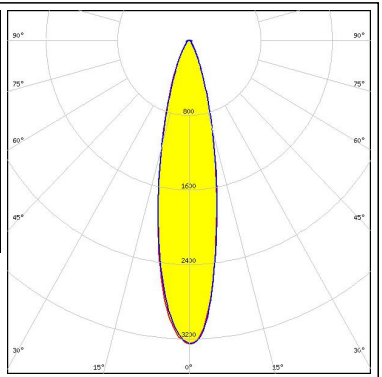

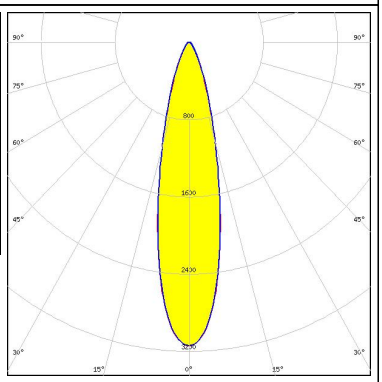

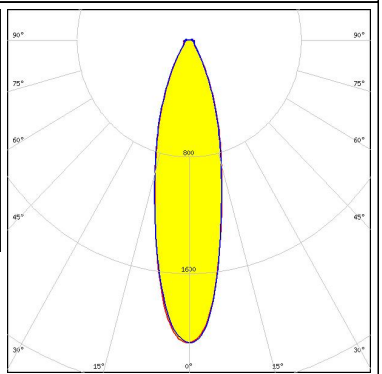
LED LUXEON XR-7070 (L224-xxx004MLU010)
 FWHM / FWTM 26.0° / 61.0°
 Efficiency 94 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:




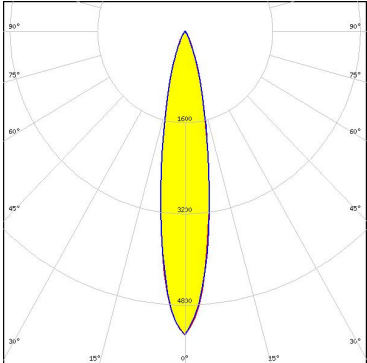
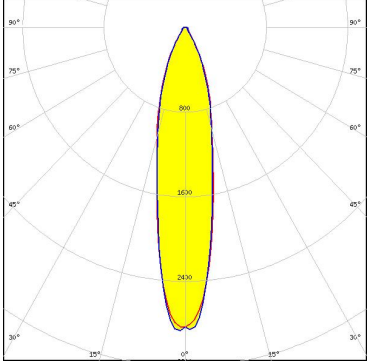

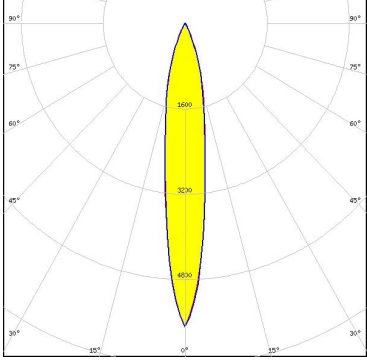

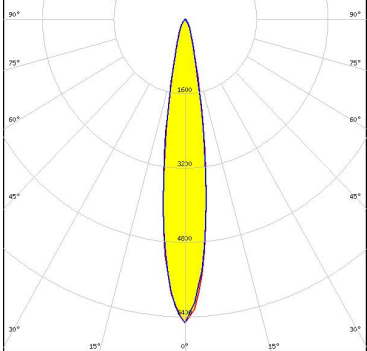
LED HiLOM SC16 (LH181B)
 FWHM / FWTM 25.0° / 64.0°
 Efficiency 93 %
 Peak intensity 1.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (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 WICOP 5050</p> <p>FWHM / FWTM 24.0° / 51.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 3.1 cd/m</p> <p>LEDs/each optic 1</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>		

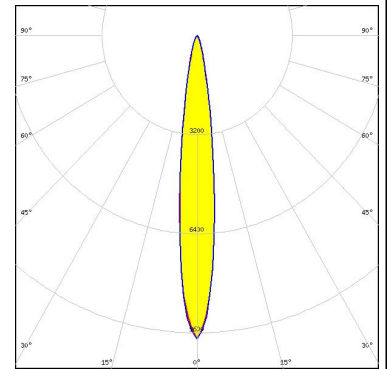
OPTICAL RESULTS (SIMULATED):

<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: CLU700/701/702/703 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 LEDs</p> <p>LED: CMA1303 FWHM / FWTM: 16.0° / 44.0° Efficiency: 96 % Peak intensity: 5.7 cd/lm LEDs/each optic: 1 Light colour: White Required components: Bender Wirth: 448 Typ 2x2MX HV</p>	
<p> CREE LEDs</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>	

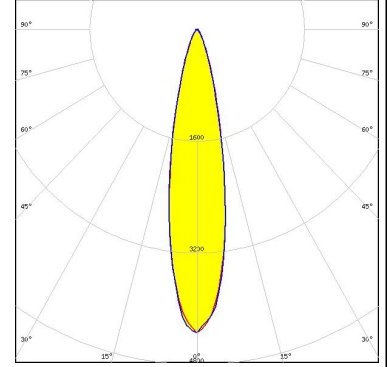
OPTICAL RESULTS (SIMULATED):



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:

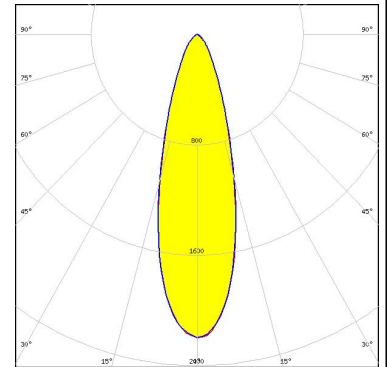


LED XHP50.2
 FWHM / FWTM 22.0° / 44.0°
 Efficiency 94 %
 Peak intensity 4.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

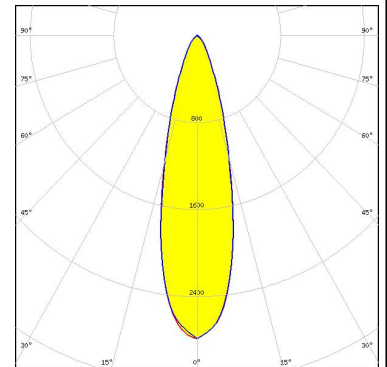


LED XHP70.2
 FWHM / FWTM 30.0° / 62.0°
 Efficiency 91 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

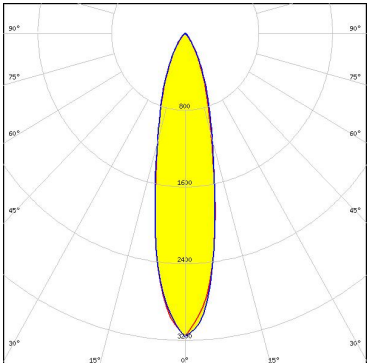
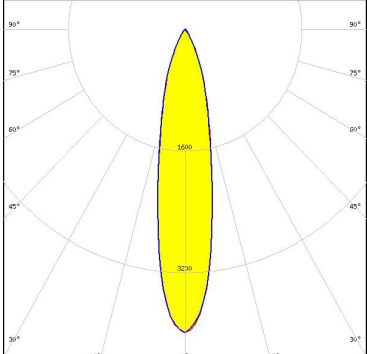
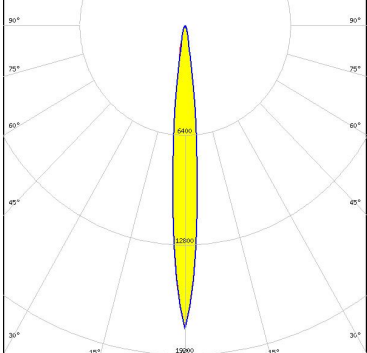
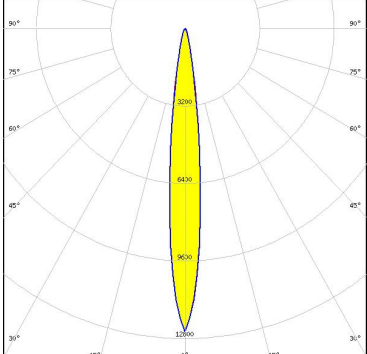
Protective plate, glass



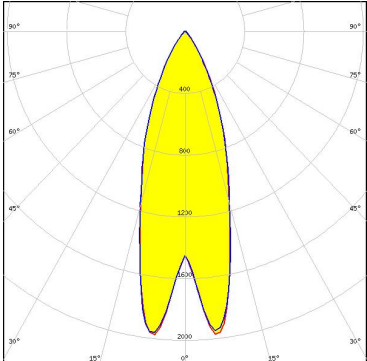
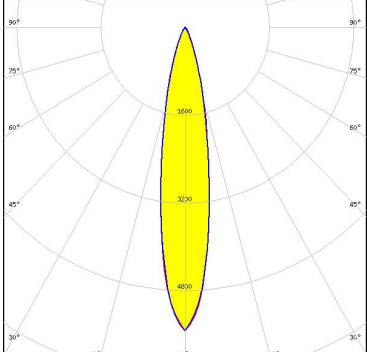
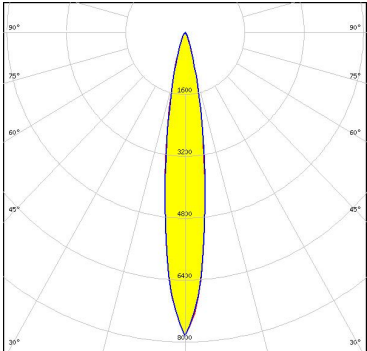
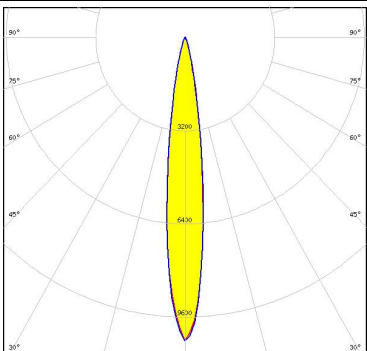
LED XHP70.3 HD
 FWHM / FWTM 28.0° / 56.0°
 Efficiency 96 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>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:</p>	
<p>LUMINUS</p> <p>LED: MP 7070 FWHM / FWTM: 22.0° / 52.0° Efficiency: 97 % Peak intensity: 4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMINUS</p> <p>LED: SFT-40-WCS FWHM / FWTM: 10.0° / 20.0° Efficiency: 97 % Peak intensity: 17.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>LUMINUS</p> <p>LED: SFT-70X-WCS FWHM / FWTM: 12.0° / 26.0° Efficiency: 97 % Peak intensity: 12.5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

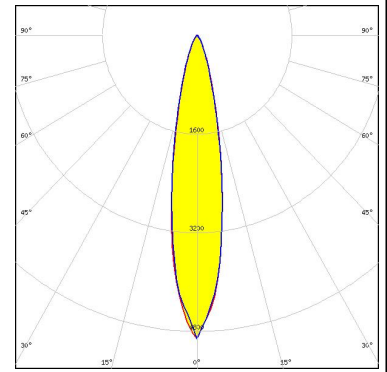
<p>NICHIA</p> <p>LED: NF2x757G FWHM / FWTM: 34.0° / 66.0 + 67.0° Efficiency: 97 % Peak intensity: 2 cd/lm LEDs/each optic: 4 Light colour: White Required components:</p>	
<p>NICHIA</p> <p>LED: NFMW48xA FWHM / FWTM: 19.0° / 42.0° Efficiency: 94 % Peak intensity: 5.5 cd/lm LEDs/each optic: 1 Light colour: 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>	

OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

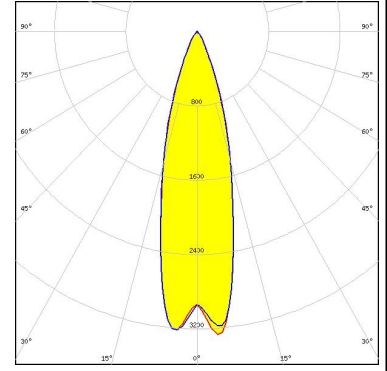
LED Duris S10
 FWHM / FWTM 20.0° / 43.0°
 Efficiency 94 %
 Peak intensity 4.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

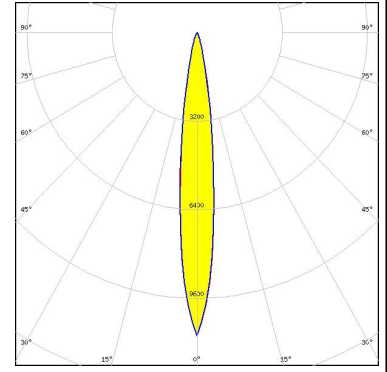
Opto Semiconductors

LED OSCONIQ C 2424
 FWHM / FWTM 28.0° / 52.0°
 Efficiency 97 %
 Peak intensity 3.3 cd/lm
 LEDs/each optic 4
 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:

