

HB-2X2MXS-M

~30° wide beam

SPECIFICATION:

Dimensions	90.0 x 90.0
Height	18 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 

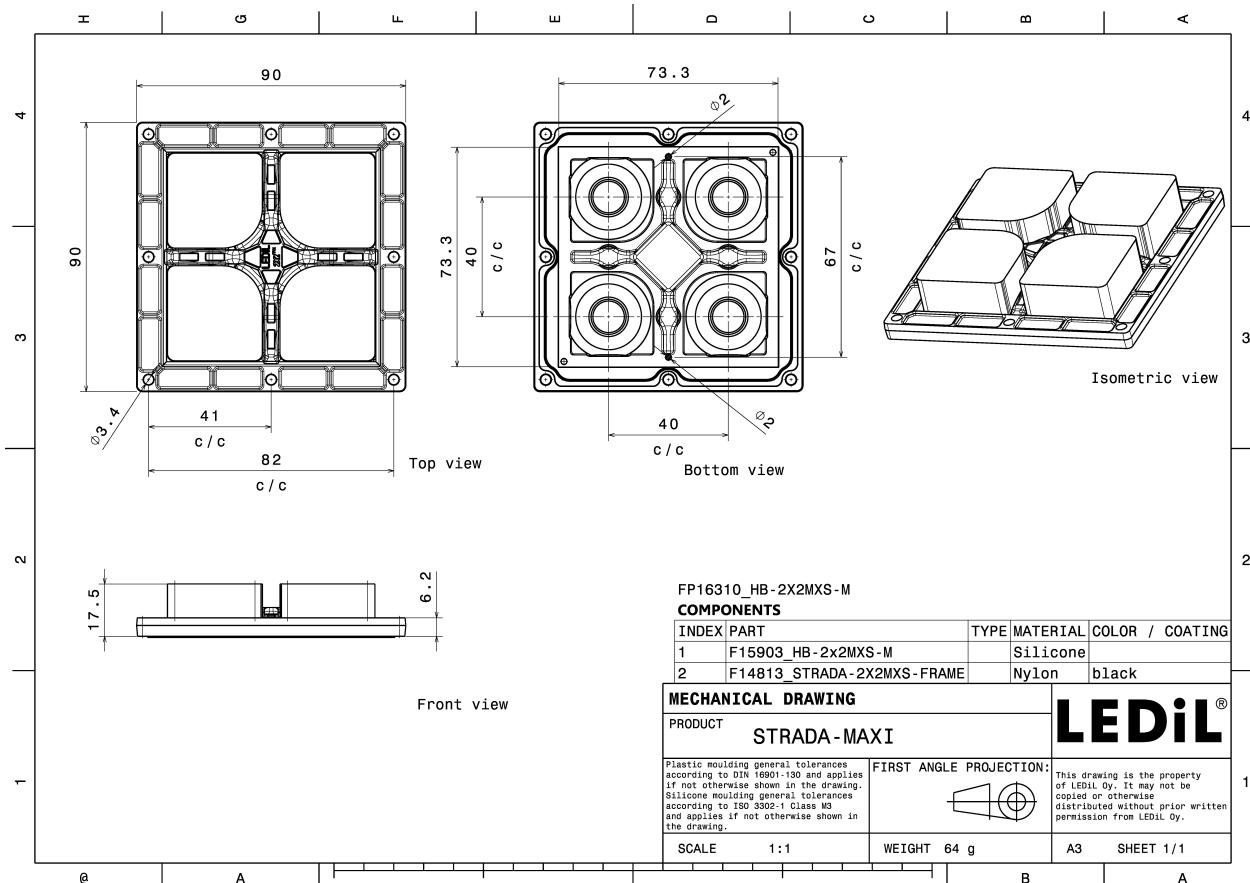


MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
STRADA-2X2MXS-FRAME	Holder	PA66	black		
HB-2X2MXS-M	Multi-lens	Silicone	clear		

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FP16310_HB-2X2MXS-M	156	24	12	10.5
» Box size: 398 x 298 x 265 mm				

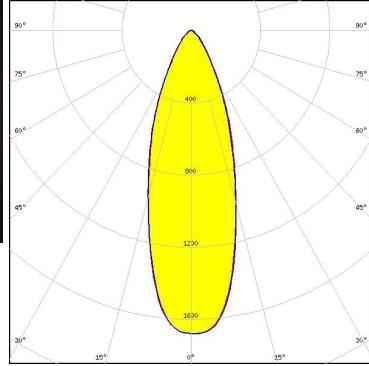


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

LUMILEDS

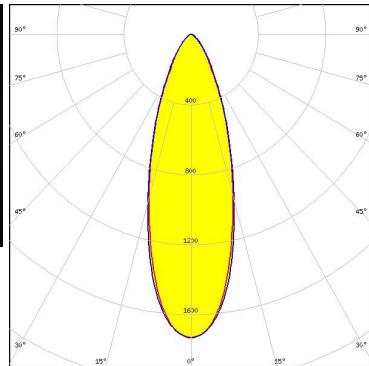
LED LUXEON M/MX
FWHM / FWTM 34.0° / 72.0°
Efficiency 91 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

LUMILEDS

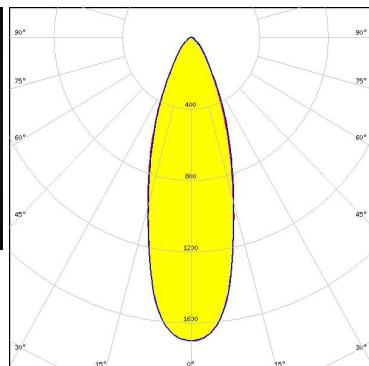
LED LUXEON XR-7070 (L224-xxxx004MLU010)
FWHM / FWTM 33.0° / 72.0°
Efficiency 90 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

NICHIA

LED NV4x144A
FWHM / FWTM 34.0° / 71.0°
Efficiency 90 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OPTICAL RESULTS (MEASURED):

SAMSUNG

LED HiLOM SC16 (LH181B)

FWHM / FWTM 32.0° / 72.0°

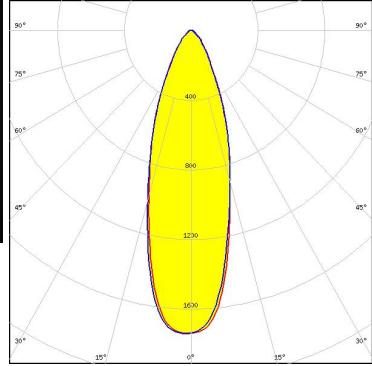
Efficiency 89 %

Peak intensity 1.7 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files

SEoul SEMICONDUCTOR

LED WICOP 5050

FWHM / FWTM 33.0° / 72.0°

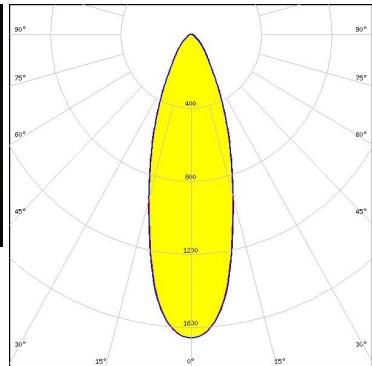
Efficiency 90 %

Peak intensity 1.7 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:



Light distribution files

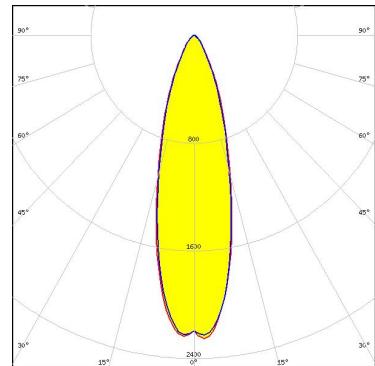
OPTICAL RESULTS (SIMULATED):

CITIZEN

LED CLU700/701/702/703
 FWHM / FWTM 29.0° / 61.0°
 Efficiency 88 %
 Peak intensity 2.2 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

Bender Wirth: 434 Typ 2x2MX HV

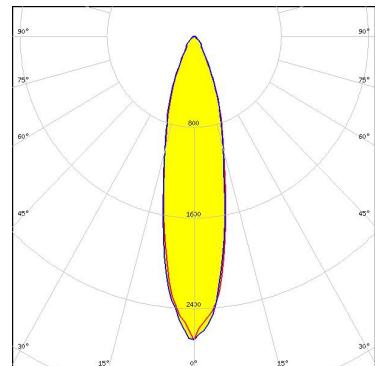
Light distribution files



CREE LEDs

LED MHB-A/B
 FWHM / FWTM 24.0° / 57.0°
 Efficiency 90 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

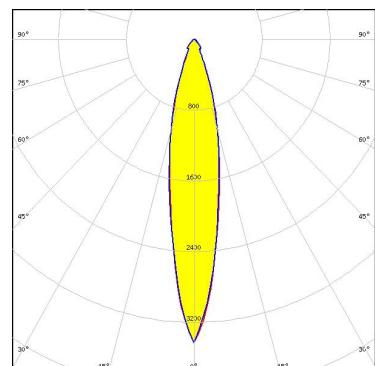
Light distribution files



CREE LEDs

LED XHP35 HI
 FWHM / FWTM 20.0° / 46.0°
 Efficiency 86 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

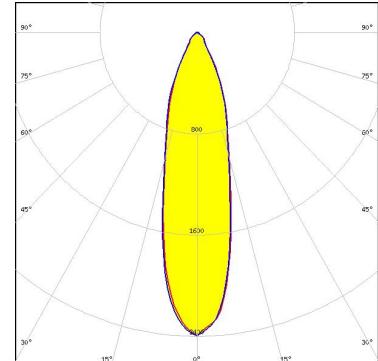
Light distribution files



OPTICAL RESULTS (SIMULATED):



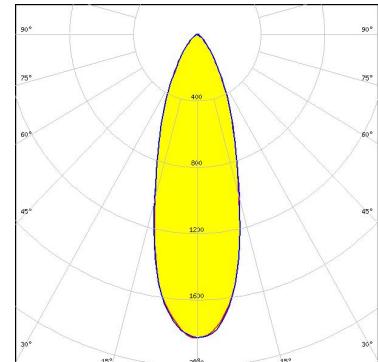
LED	XHP50
FWHM / FWTM	26.4° / 61.7°
Efficiency	92 %
Peak intensity	2.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



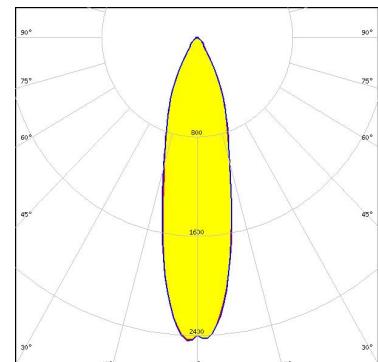
LED	XHP70.3 HD
FWHM / FWTM	32.0° / 72.0°
Efficiency	93 %
Peak intensity	1.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



LED	XHP70.3 HI
FWHM / FWTM	27.0° / 62.0°
Efficiency	93 %
Peak intensity	2.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

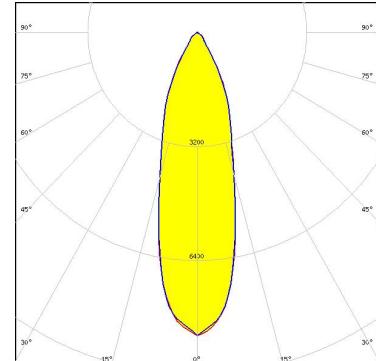


Light distribution files

OPTICAL RESULTS (SIMULATED):



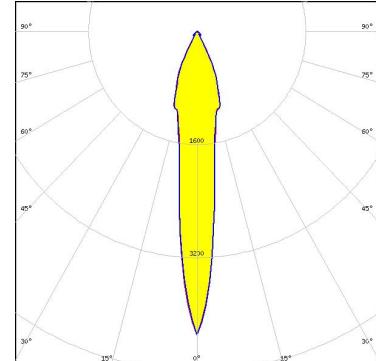
LED LUXEON M/MX
FWHM / FWTM 30.0° / 66.0°
Efficiency 375 %
Peak intensity 8.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



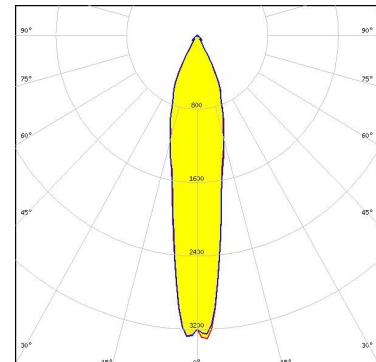
LED SFT-40-WCS
FWHM / FWTM 14.0° / 54.0°
Efficiency 95 %
Peak intensity 4.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED SFT-70X-WCS
FWHM / FWTM 20.0° / 56.0°
Efficiency 95 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

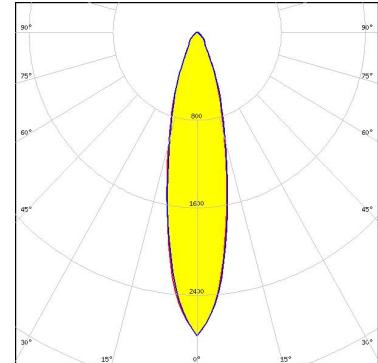


Light distribution files

OPTICAL RESULTS (SIMULATED):



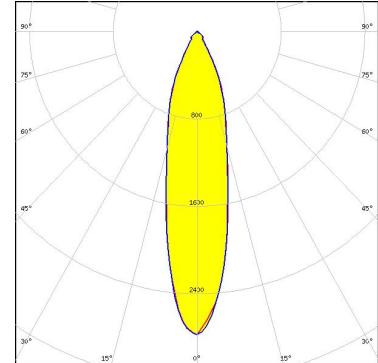
LED NFMW48xA
 FWHM / FWTM 24.0° / 54.0°
 Efficiency 90 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED NV4WB35AM
 FWHM / FWTM 24.0° / 60.0°
 Efficiency 95 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

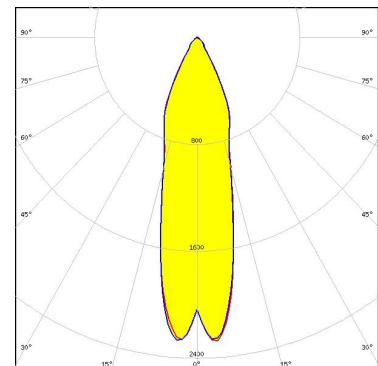


Light distribution files



Opto Semiconductors

LED OSCONIQ C 2424 Gen1
 FWHM / FWTM 28.0° / 64.0°
 Efficiency 94 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 4
 Light colour/type White
 Required components:



Light distribution files

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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