

HB-2X2MXS-M

~30° wide beam

SPECIFICATION:

Dimensions 90.0 x 90.0 mm

Height 18 mm

Fastening screw

Ingress protection classes IP67

ROHS compliant yes 1



MATERIALS:

Component	Type	Material	Colour	Finish	Length
HB-2X2MXS-M	Multi-lens	Silicone	clear		
STRADA-2X2MXS-FRAME	Holder	PA66	black		90.0

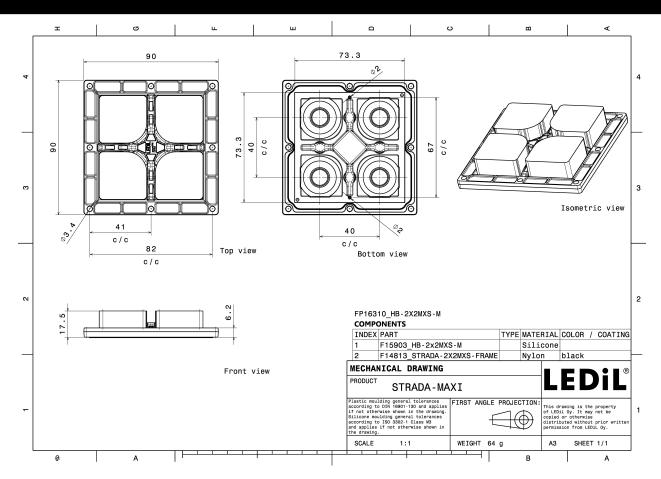
ORDERING INFORMATION:

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

Last update: 08/11/2023



PRODUCT FP16310_HB-2X2MXS-M



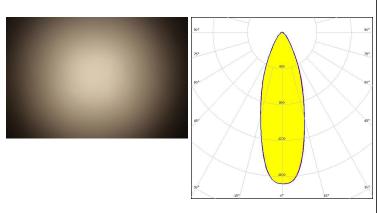
See also our general installation guide: www.ledil.com/installation_guide



OPTICAL RESULTS (MEASURED):

DESCRIPTION

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:

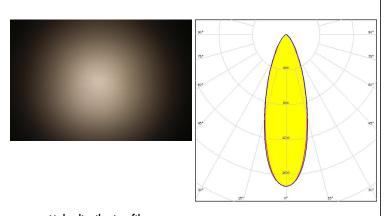


Light distribution files

UMILEDS

LED LUXEON XR-7070 (L224-xxxx004MLU010)

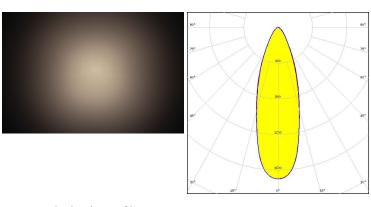
FWHM / FWTM 33.0° / 72.0°
Efficiency 90 %
Peak intensity 1.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

WNICHIA

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

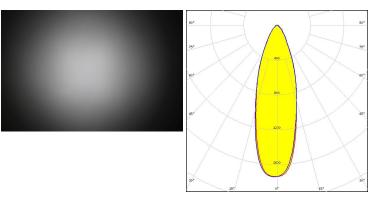


OPTICAL RESULTS (MEASURED):

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:

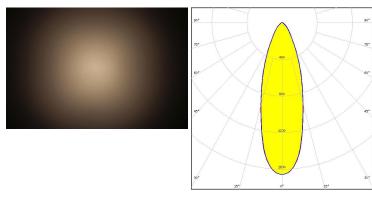


Light distribution files



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



CITIZEN

LED CLU700/701/702/703

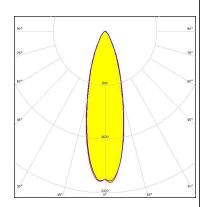
White

FWHM / FWTM 29.0° / 61.0°
Efficiency 88 %
Peak intensity 2.2 cd/lm
LEDs/each optic 1

Required components:

Light colour/type

Bender Wirth: 434 Typ 2x2MX HV

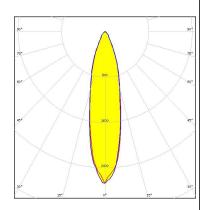


Light distribution files

CREE -

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

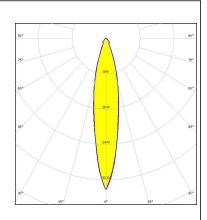
Required components:



Light distribution files

CREE -

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

5/9



CREE \$

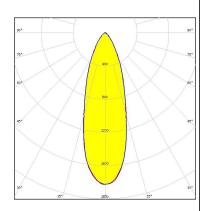
LED XHP50
FWHM / FWTM 26.4° / 61.7°
Efficiency 92 %
Peak intensity 2.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

CREE \$

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

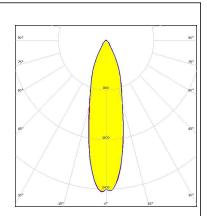
Required components:



Light distribution files

CREE -

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





Required components:

LED LUXEON M/MX
FWHM / FWTM 30.0° / 66.0°

Efficiency 375 %

Peak intensity 8.5 cd/lm

LEDs/each optic 1

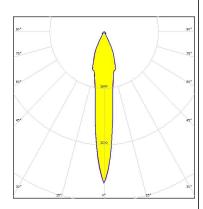
Light colour/type White

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

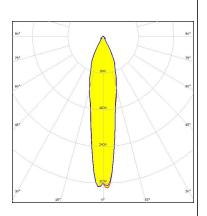
Required components:



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:



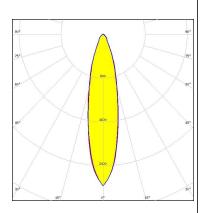
Light distribution files



WNICHIA

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:

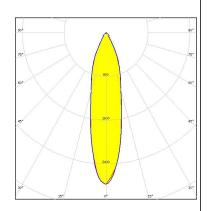


Light distribution files



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:

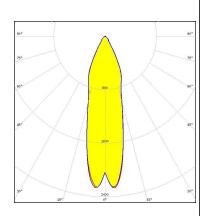


Light distribution files

OSRAM Onto Semiconductors

LED OSCONIQ C 2424
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



PRODUCT DATASHEET FP16310_HB-2X2MXS-M

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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