

HB-2X2MXS-M

~30° wide beam

SPECIFICATION:

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



MATERIALS:

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

ORDERING INFORMATION:

» Box size: 398 x 298 x 265 mm

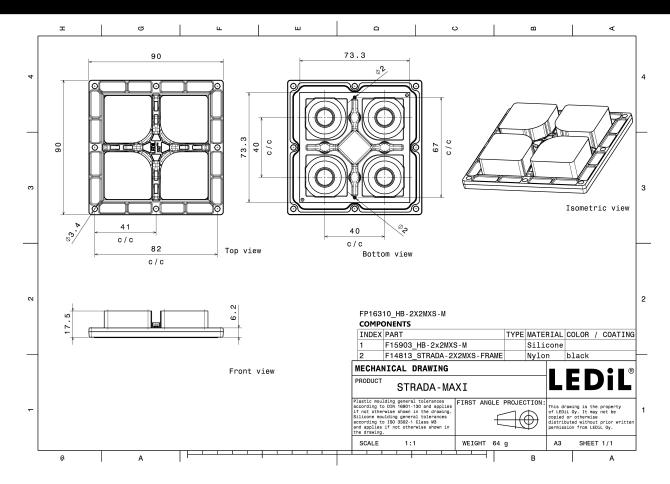
Component Qty in box MOQ MPQ Box weight (kg) FP16310_HB-2X2MXS-M Multi-lens 24 10.5 156 12

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PRODUCT FP16310_HB-2X2MXS-M

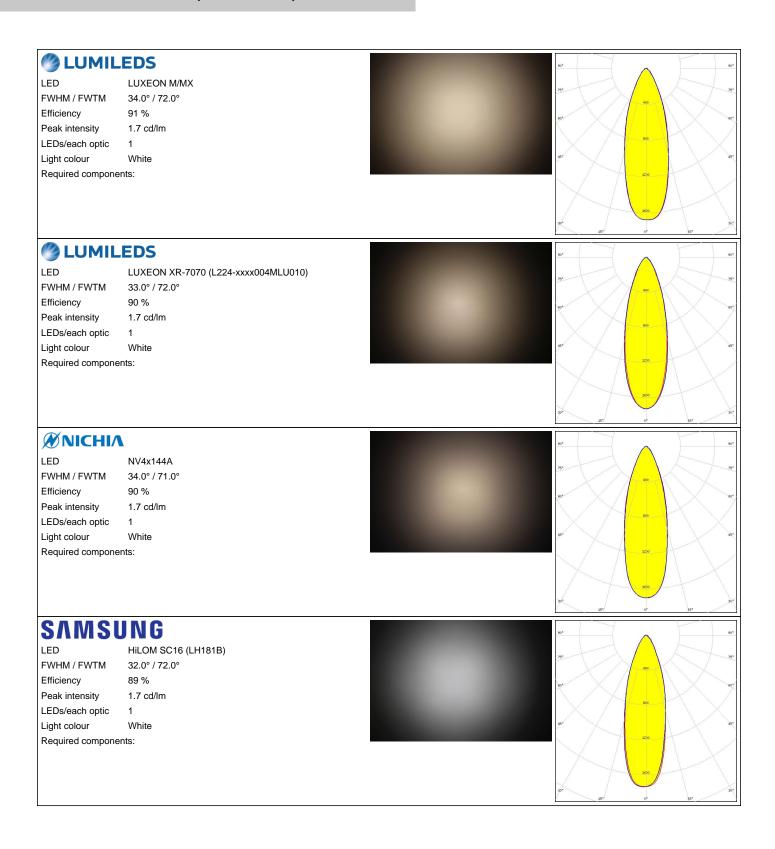
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See also our general installation guide: www.ledil.com/installation_guide

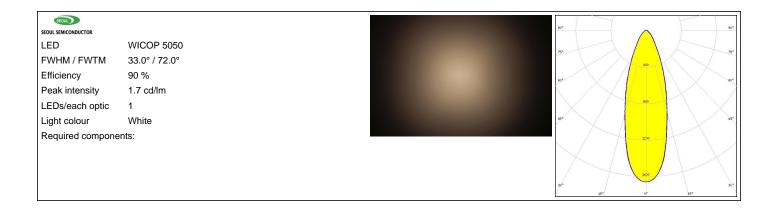


OPTICAL RESULTS (MEASURED):





OPTICAL RESULTS (MEASURED):



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OPTICAL RESULTS (SIMULATED):

CITIZEN

LED CLU700/701/702/703

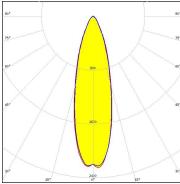
White

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

Required components:

Light colour

Bender Wirth: 434 Typ 2x2MX HV



CREE - LED

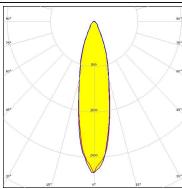
 LED
 MHB-A/B

 FWHM / FWTM
 24.0° / 57.0°

 Efficiency
 90 %

Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour White

Required components:



CREE = LED

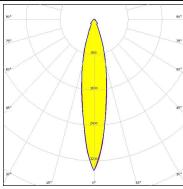
 LED
 XHP35 HI

 FWHM / FWTM
 20.0° / 46.0°

 Efficiency
 86 %

Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White

Light colour
Required components:

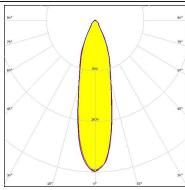


CREE - LED

LED XHP50
FWHM / FWTM 26.4° / 61.7°
Efficiency 92 %

Peak intensity 2.4 cd/lm LEDs/each optic 1 Light colour White

Required components:



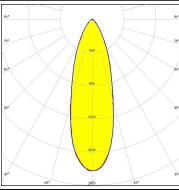


OPTICAL RESULTS (SIMULATED):

CREE 1 LED

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

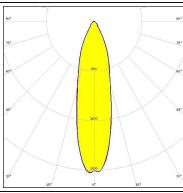
Required components:



CREE \$ LED

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

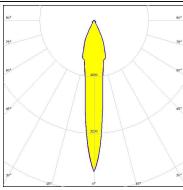
Required components:



ELUMINUS

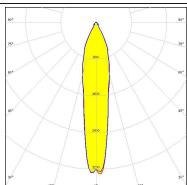
LED SFT-40-WCS
FWHM / FWTM 14.0° / 54.0°
Efficiency 95 %
Peak intensity 4.3 cd/lm
LEDs/each optic 1
Light colour White

Required components:



ELUMINUS

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



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OPTICAL RESULTS (SIMULATED):

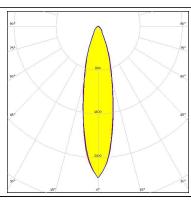


LED NFMW48xA $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 24.0° / 54.0°

Efficiency 90 % Peak intensity 2.8 cd/lm

LEDs/each optic Light colour White

Required components:

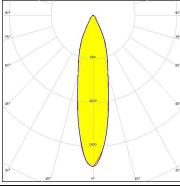


WNICHIA

LED NV4WB35AM FWHM / FWTM 24.0° / 60.0°

Efficiency 95 % Peak intensity 2.8 cd/lm LEDs/each optic 1

White Light colour Required components:

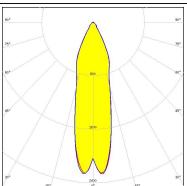


OSRAM Opto Semiconductors

LED OSCONIQ C 2424 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 28.0° / 64.0° Efficiency 94 %

Peak intensity 2.4 cd/lm LEDs/each optic 4 Light colour White

Required components:



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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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