

# HB-2X2-M

 ${\sim}25^\circ$  medium beam optimized for CREE XP-L and XM-L

### **TECHNICAL SPECIFICATIONS:**

Dimensions	50.0 mm
Height	8.5 mm
Fastening	pin, screw
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	9.2 kg
Quantity in Box	800 pcs
ROHS compliant	yes 🛈

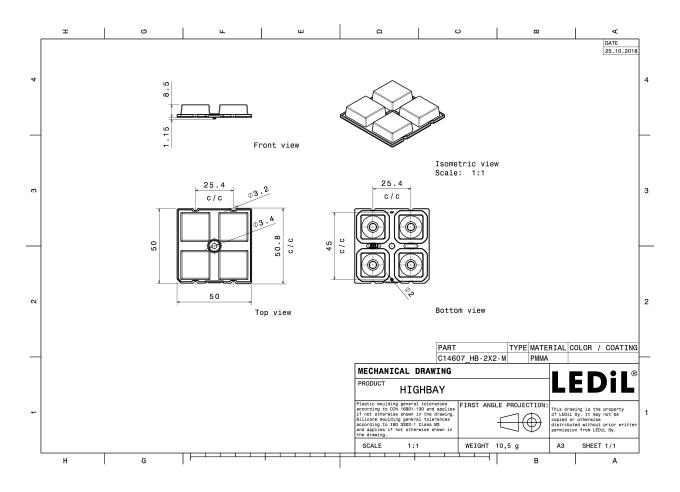


### **MATERIAL SPECIFICATIONS:**

Component HB-2X2-M **Type** Multi-lens **Material** PMMA Colour clear









bridgetux. LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	3), 3), 6, 6, 150 100 100 100 100 100 100 100
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	XD16 33.0° 94 % 2.000 cd/lm 4 White	30° 10 10 10 10 10 10 10 10 10 10
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	XD16 19.0° 90 % 4.600 cd/lm 1 White	200 60, 23, 24, 24, 25, 25, 25, 25, 25, 25, 25, 25, 25, 25
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	XM-L 32.0° 93 % 2.040 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20



CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	XM-L2 32.0° 92 % 2.112 cd/lm 1 White	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	XP-G2 25.0° 0 % 3.100 cd/lm 1 White	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	XP-L HD 31.0° 94 % 2.213 cd/lm 1 White	
CREE LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	XP-L2 31.0° 93 % 2.100 cd/lm 1 White	



EUMIL LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LUXEON 5050 34.0° 94 % 1.950 cd/lm 1 White	
WHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LUXEON MZ 30.0° 91 % 2.400 cd/lm 1 White	
LUMIL     LED     FWHM     Efficiency     Peak intensity     LEDs/each optic     Light colour     Required compon	LUXEON V 29.0° 94 % 2.400 cd/lm 1 White	
LUMIL     LED     FWHM     Efficiency     Peak intensity     LEDs/each optic     Light colour     Required compor	LUXEON V2 23.0° 94 % 3.500 cd/lm 1 White	



ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	NVSW219D 29.0° 94 % 2.500 cd/lm 1 White	31, 21, 21, 22, 22, 24, 26, 26, 26, 26, 26, 26, 26, 26, 26, 26
<b>NICHIA</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	NVSW319B 29.0° 94 % 2.600 cd/lm 1 White	200
<b>NICHIA</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	NVSW3x9A 28.0° 94 % 2.800 cd/lm 1 White	34 <sup>2</sup> 500 500 500 500 500 500 500 500 500 50
ED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	NWSx229A 33.0° 87 % 2.200 cd/lm 1 White	No.         No.



OSRAM LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	PrevaLED Brick DC 2x8 23.0° 91 % 3.750 cd/lm 1 White	
OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	
OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	200 200 200 200 200 200 200 200
PHILIP LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	Fortimo FastFlex LED 2x8 DA G4 25.0° 92 % 3.000 cd/lm 1 White	200 200 200 200 200 200 200 200



SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	HiLOM RH16 (LH351C) 30.0° 94 % 2.700 cd/lm 1 White	200 200 200 200 200 200 200 200
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LH351B 28.0° 85 % 2.720 cd/lm 1 White	
SAMSU LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	LH351D 35.0° 91 % 1.900 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	



seoul semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	22, 150 150 25, 26 20, 00 00, 00 150 150 150 150 150 150 150 1
seoul semiconductor LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
SECOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	White	20 20 20 20 20 20 20 20 20 20
TRIDON LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	RLE 2x4 2000lm HP EXC2 OTD 23.0° 94 % 3.400 cd/lm 1 White	



LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	RLE 2x8 4000lm HP EXC2 OTD 23.0° 94 % 3.400 cd/lm 1 White	30 30 30 30 30 30 30 30 30 30
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	RLE G1 49x121mm 2000lm xxx EXC OTD 24.0° 94 % 3.000 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
<b>TRIDON</b> LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	RLE G1 49x133mm 2000lm xxx EXC OTD 24.0° 94 % 3.000 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
LED FWHM Efficiency Peak intensity LEDs/each optic Light colour Required compor	RLE G1 49x223mm 4000lm xxx EXC OTD 24.0° 94 % 3.000 cd/lm 1 White	200 64 65 65 65 65 65 65 65 65 65 65



# **TRIDONIC**

 LED
 RLE G1 49x245mm 4000lm xxx EXC OTD

 FWHM
 24.0°

 Efficiency
 94 %

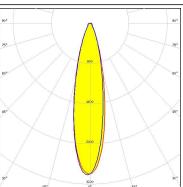
 Peak intensity
 3.000 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 Ketter







# PHOTOMETRIC DATA (SIMULATED):

CREE LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W Required component	XP-G3 28.0° 92 % 3.000 cd/lm hite s:	50 <sup>4</sup> 95 <sup>3</sup> 50 <sup>4</sup> 95 <sup>3</sup> 60 <sup>4</sup> 05 <sup>4</sup> 500 500 500 500 500 500 500 50
LED FWHM Efficiency Peak intensity LEDs/each optic 1	LUXEON 3030 2D (Round LES) 21.0° 91 % 4.700 cd/lm	20° 00° 00° 00° 00° 00° 00° 00° 00° 00°
Required component	LUXEON 3535 2D 22.0° 92 % 4.500 cd/lm	5° 5° 5° 6° 6° 6° 70° 70° 70° 70° 70° 70° 70° 70° 70° 70
OSRAM Opto Semiconductors LED FWHM Efficiency Peak intensity LEDs/each optic 1 Light colour W/ Required component	OSCONIQ P 3737 (3W version) 29.0° 93 % 2.840 cd/lm hite s:	207 207 207 207 207 207 207 207



### PHOTOMETRIC DATA (SIMULATED):

# PHILI

LED FWHM Efficiency Peak intensity LEDs/each op Light colour Required comp

SEOUL

SEOUL SEMICONDUCTOR LED FWHM Efficiency Peak intensity LEDs/each opt Light colour Required comp

2	500 500 500 500 500 500 500 500
3	94 95 96 96 96 96 96 97 96 96 96 96 97 97 96 96 97 97 97 97 97 97 97 97 97 97 97 97 97



#### **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.

#### **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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

#### **LEDiL Oy**

Joensuunkatu 13 FI-24240 SALO Finland

#### LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

#### Local sales and technical support www.ledil.com/ where\_to\_buy

Shipping locations Salo, Finland Hong Kong, China

Distribution Partners www.ledil.com/ where\_to\_buy

# **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for LED Lighting Lenses category:

Click to view products by Ledil manufacturer:

Other Similar products are found below :

LL01ED-AK40L06 LL01ZZ-EX25L06-M2 180182-0000 FNP-N2-N083-0R NRW LL01ED-AL155R49 0190535300 0410111300 0510113303 0530997 2710121 C11004\_TINA2-RS C12231\_LENA-FRESNEL-LENS LL01ED-AKY24R49 LL01CR-AYG15R49 LL01CR-OT32L06-M2 LL01ZZ-AAA24L49 LL01CR-CEN38L02 LL01ZZ-AAA55L49 LL01CR-AYG24R49 LL01A00CZMB2-M2 LL01ED-AKY38R49 LL01CR-CNE2545L06-M2 LL01ZZ-AAA38L49 LL01ED-AKV36R49 LL01ED-AL124R49 LL01CR-AYG38R49 FN15973\_RONDA-REC-60-C F16859\_LINDA-ZT25 C14169\_LENA-CLEAR-LENS C16125\_OLGA-W C17410\_SPORT-2X2-FT6 C17414\_SPORT-2X2-S6 C17409\_SPORT-2X2-FT6W C17360\_SPORT-2X2-FT60 C17434\_ILONA-WW F16636\_LINDA-W60 10003 10003/15 10048 10049 10108 CP10960\_RGBX-SS CP12395\_LXP3-W 10415 10510 1-1000288-0 F14487\_FLORENCE-1R-MAXI-WG 12667 C14165\_STRADA-2X2-ME-WIDE2 C14605\_HB-2X2-RW