

# PRODUCT DATASHEET FP15897\_HB-2X2MXS-WWW

# HB-2X2MXS-WWW

~85° wide beam

### **SPECIFICATION:**

Dimensions	90.0 x 90.0 mm
Height	11.5 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



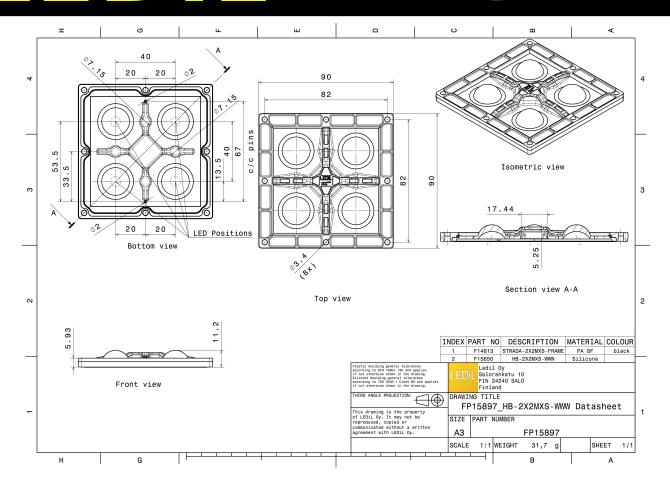
## **MATERIALS**:

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

### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP15897_HB-2X2MXS-WWW	Multi-lens	240	24	12	12.5
» Box size: 398 x 298 x 265 mm					

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



# **OPTICAL RESULTS (MEASURED):**

LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required component	LUXEON M/MX 90.0° / 122.0° 94 % 0.5 cd/lm 1 White nts:	
		Light distribution files
CUMIL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required component	LUXEON XR-7070 (L224-xxxx004MLU010) 85.0° / 120.0° 95 % 0.5 cd/lm 1 White	Image: Second system Image: Second system   Image: Second
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required component	NV4x144A 90.0° / 125.0° 95 % 0.4 cd/lm 1 White	Light distribution files



## **OPTICAL RESULTS (MEASURED):**

#### **ΜΝΙCΗΙΛ** LED NV9W149AM FWHM / FWTM 100.0° / 140.0° Efficiency 91 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files **SAMSUNG** LED HiLOM SC16 (LH181B) FWHM / FWTM 84.0° / 118.0° Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files SCIOLUX LED XLE-S22C4XD16 (XD16) FWHM / FWTM 87.0° / 124.0° Efficiency 91 % Peak intensity 0.4 cd/lm LEDs/each optic 4 Light colour/type White Required components: Light distribution files



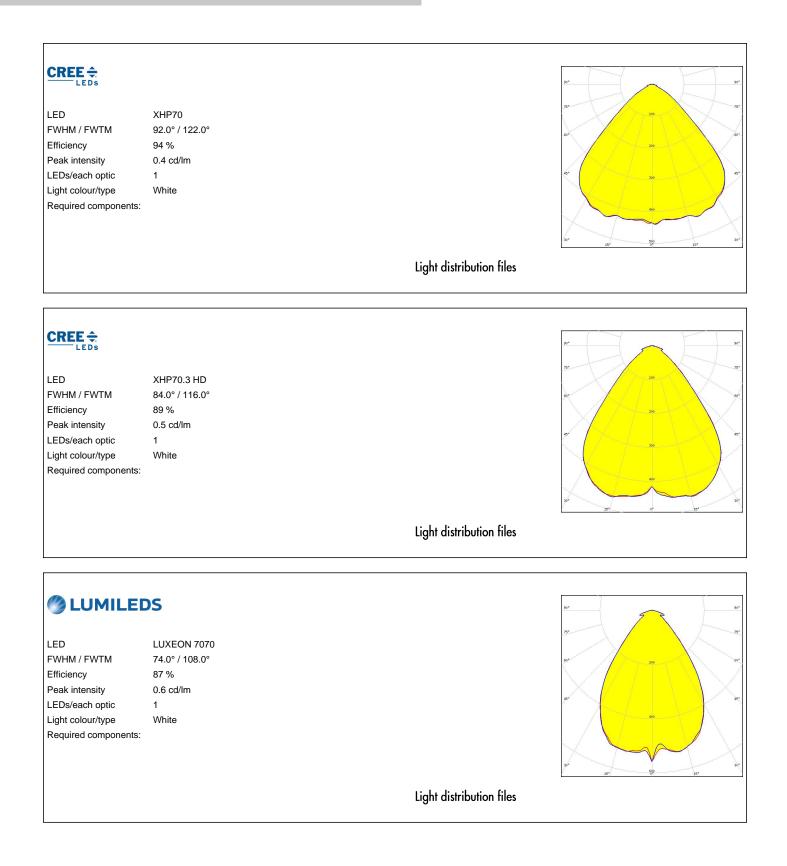
# **OPTICAL RESULTS (MEASURED):**

SEOUL SEOUL SEMICONDUCTOR		90 <sup>4</sup> 90 <sup>7</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required component	WICOP 5050 91.0° / 125.0° 94 % 0.4 cd/lm 1 White mts:	
		Light distribution files



Light distribution files   CITTIZEN   LED CLU700/701/702/703   FWHM / FWTM 77.0° / 112.0°   Efficiency 89 %   Peak intensity 0.5 col/m   LEDs/each optic 1   Light colour/type White   Required components: Light distribution files   CREE®   LED MHB-A/B   FWHM / FWTM 75.0° / 111.0°   Efficiency 91 %   Peak intensity 0.6 col/m   LEDs/each optic 1   LEDs/each optic 1   LED Meth-A/B Efficiency   Peak intensity 0.6 col/m   LEDs/each optic 1   LEDs/each	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	Bridgelux SMD 5050 79.0° / 115.0° 94 % 0.6 cd/lm 1 White	Light distribution files
LED CLU700/701/702/703 FWHM / FWTM 77.0° / 112.0° Efficiency 99% Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour/type White Required components: Bender Winth: 434 Typ 2x2MX HV Light distribution files			Light distribution files
LEDS LED MHB-A/B FWHM / FWTM 75.0° / 111.0° Efficiency 91 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour/type White Required components:	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:	CLU700/701/702/703 77.0° / 112.0° 89 % 0.5 cd/lm 1 White	Image: second s
Light distribution files	LEDs FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type	75.0° / 111.0° 91 % 0.6 cd/lm 1	64°

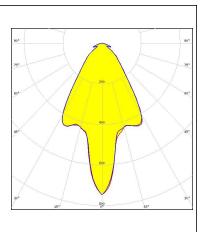






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LED	SFT-40-WCS
FWHM / FWTM	62.0° / 102.0°
Efficiency	91 %
Peak intensity	0.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

#### SFT-70X-WCS I FD FWHM / FWTM 68.0° / 105.0 + 106.0° Efficiency 91 % 0.6 cd/lm Peak intensity LEDs/each optic 1 Light colour/type White Required components: Light distribution files **MNICHIA** NFMW48xA LED FWHM / FWTM 73.0° / 107.0° Efficiency 91 % Peak intensity 0.6 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files



MICHIΛ			95°
LED FWHM / FWTM	NV4x144A 76.0° / 109.0°		
Efficiency	89 %		
Peak intensity	0.5 cd/lm		
LEDs/each optic	1		a.
Light colour/type	White		
Required components	5:		
			30, 32, 0, 32, 31,
		Light distribution files	
OSRAM Opto Semiconductors		Light distribution files	89 <sup>4</sup>
Opto Semiconductors	OSCONIQ C 2424	Light distribution files	25
Opto Semiconductors	OSCONIQ C 2424 73.0° / 105.0 + 106.0°	Light distribution files	50° 50° 50°
opto Semiconductors LED FWHM / FWTM		Light distribution files	91 <sup>4</sup> 91 <sup>4</sup> 27 81 <sup>4</sup> 20 91 <sup>4</sup>
LED FWHM / FWTM Efficiency	73.0° / 105.0 + 106.0°	Light distribution files	61 200 17 20 19 20 10 20 10 10 10 10 10 10 10 10 10 10 10 10 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	73.0° / 105.0 + 106.0° 90 %	Light distribution files	81 81 81 92 92 93 93 93 93 93 93
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type	73.0° / 105.0 + 106.0° 90 % 0.6 cd/lm 4 White	Light distribution files	20 50 50 50 50 50 50 50 50 50 50 50 50 50
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	73.0° / 105.0 + 106.0° 90 % 0.6 cd/lm 4 White	Light distribution files	200 - 520 80 90 90 90 90 90 90 90 90 90 9



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#### **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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