

# 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 🛈



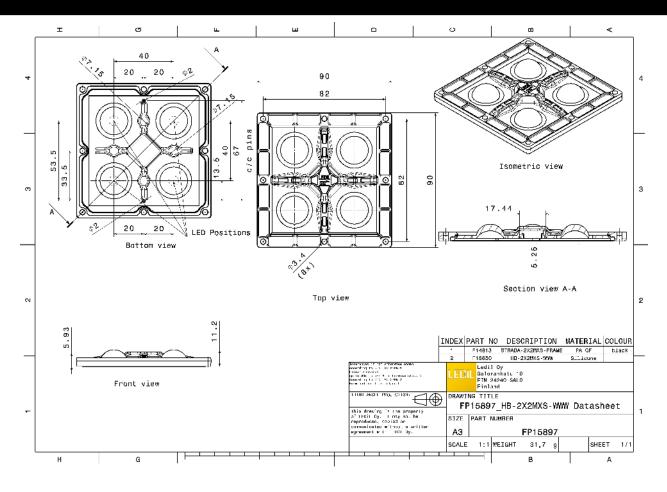
## **MATERIALS:**

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

### **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: <u>www.ledil.com/installation\_guide</u>



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

<b>UMIL</b>	EDS	
LED	LUXEON M/MX	
FWHM / FWTM	90.0° / 122.0°	
Efficiency	94 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
Required compone	ans.	
		ke "∫ , y
	EDS	
LED	LUXEON XR-7070 (L224-xxxx004MLU010)	
FWHM / FWTM	85.0° / 120.0°	
Efficiency	95 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		A Construction of the second s
<b>ØNICHI</b>	X	
LED	NV4x144A	
FWHM / FWTM	90.0° / 125.0°	
Efficiency	95 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		-**
<b>ØNICHI</b>	X	
LED	NV9W149AM	
FWHM / FWTM	100.0° / 140.0°	
Efficiency	91 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		



# **OPTICAL RESULTS (MEASURED):**

SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM SC16 (LH181B) 84.0° / 118.0° 94 % 0.5 cd/lm 1 White	
SCIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XLE-S22C4XD16 (XD16) 87.0° / 124.0° 91 % 0.4 cd/lm 4 White	
SIGUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	WICOP 5050 91.0° / 125.0° 94 % 0.4 cd/lm 1 White ents:	



# **OPTICAL RESULTS (SIMULATED):**

bridgelux.		L.Y
LED	Bridgelux SMD 5050	
FWHM / FWTM	79.0° / 115.0°	25
Efficiency	94 %	
Peak intensity	0.6 cd/lm	17 NO 10
LEDs/each optic	1	
Light colour	White	er av
Required components:	White	
		1 <sup>10</sup>
CITIZEN		
LED	CLU700/701/702/703	
FWHM / FWTM	77.0° / 112.0°	
Efficiency	89 %	
Peak intensity	0.5 cd/lm	· · · · · · · · · · · · · · · · · · ·
LEDs/each optic	1	
Light colour	White	e / / / / / / / / / / / / / / /
Required components:		
Bender Wirth: 434 Ty	p 2x2MX HV	
LED	MHB-A/B	
FWHM / FWTM	75.0° / 111.0°	
Efficiency	91 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	$\times / / \times \times$
Light colour	White	
Required components:		A - Martin A
		6°
LED	XHP70	
FWHM / FWTM	92.0° / 122.0°	
Efficiency	94 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		X Y X
1		
		2"



# **OPTICAL RESULTS (SIMULATED):**

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CREE LED ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP70.3 HD 84.0° / 116.0° 89 % 0.5 cd/lm 1 White	
	)S	E
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 74.0° / 108.0° 87 % 0.6 cd/lm 1 White	
	S	a.v
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 62.0° / 102.0° 91 % 0.7 cd/lm 1 White	
	JS	1.7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-70X-WCS 68.0° / 105.0 + 106.0° 91 % 0.6 cd/lm 1 White	



# **OPTICAL RESULTS (SIMULATED):**

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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NFMW48xA 73.0° / 107.0° 91 % 0.6 cd/lm 1 White	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSCONIQ C 2424 73.0° / 105.0 + 106.0° 90 % 0.6 cd/lm 4 White	



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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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