

PRODUCT DATASHEET CS15759_HB-2X2MX-8-W

HB-2X2MX-8-W

~50° wide beam. New revision.

SPECIFICATION:

Dimensions	90.0 x 90.0 mm
Height	16.9 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



MATERIALS:

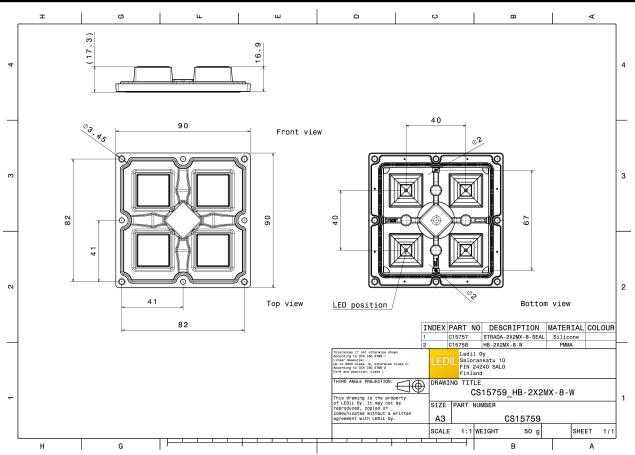
Component	Туре	Material	Colour	Finish
HB-2X2MX-8-W	Multi-lens	PMMA	clear	
STRADA-2X2MX-8-SEAL	Seal	Silicone	clear	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15759_HB-2X2MX-8-W	Multi-lens	156	52	52	8.8
» Box size: 476 x 273 x 292 mm					



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



		80°	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 15xx 51.0° / 90.0° 90 % 0.9 cd/lm 1 White		57
		30 ⁴	102.9 30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XHP50.2 55.0° / 82.0° 94 % 0.9 cd/lm 1 White hts:		
		30° 0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XT-E HE 56.0° / 87.0° 94 % 1.1 cd/lm 1 White nts:		6,
	EDS	20° 1200 10° 0°	<u></u>
CONTRACT OF CONTRACT.	LUXEON M/MX 54.0° / 82.0° 94 % 1 cd/lm 1 White		99 75 60



	EDS	90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-7070 (L224-xxxx004MLU010) 53.0° / 82.0° 96 % 1.1 cd/lm 1 White	300 720 720 720 300 000 000 000 300 000 000 000 300 000 000 000 32. 22. 22.
	NV9W149AM	90°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone		200 - 200 201 - 200 - 400 400 - 600
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM SC16 (LH181B) 44.0° / 78.0° 92 % 1.3 cd/lm 1	67. 27. 28. 29. 29. 29. 29.
Light colour Required compone	White ents:	30° 25° 0° 15° X.
	PAL-LK-4950-740-48 55.0 + 55.5° / 82.0 + 82.5° 99 % 0.9 cd/lm 1 White	<u> </u>
Light colour Required compone		



-		
SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XLE-S22C4XD16 (XD16) 50.0° / 78.0° 94 % 1.1 cd/lm 4 White	94 ¹ 75 ¹ 65 ² 66 ³ 60 ³ 60 ³ 60 ³ 60 ³ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴ 6 ⁴
SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XLE-S22C4XTEHE (XT-E HE) 56.0° / 87.0° 94 % 1.1 cd/lm 1 White	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XLE-S22XHP50B (XHP50.2) 55.0° / 82.0° 94 % 0.9 cd/lm 1 White	200 00 00 00 00 00 00 00 00 00
SEQUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	WICOP 5050 56.0° / 83.0° 97 % 0.9 cd/lm 1 White tts:	



SEOUL		9y ⁴ 9y ⁴
LED	Z8Y22	
FWHM / FWTM	50.0° / 81.0°	
Efficiency	94 %	w
Peak intensity	1.1 cd/lm	$\mathbf{K} \neq \mathbf{K} $
LEDs/each optic	4	
Light colour	White	g. de la calendaria de
Required compone	ents:	
		36* 2200 36*



OPTICAL RESULTS (SIMULATED):

bridgelux.		90°
LED	Bridgelux SMD 5050	
FWHM / FWTM	48.0° / 73.0°	75.
Efficiency	94 %	
Peak intensity	1.3 cd/lm	60 ^h
LEDs/each optic	1	$ \times // \wedge \times$
Light colour	White	45°
Required components:	White	800
Required components.		
		1270
		30° 15° 0° 15°
CITIZEN		90°
	CLU700/701/702/703	75
FWHM / FWTM	43.0° / 73.0°	400
Efficiency	88 %	50*
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
Bender Wirth: 434 Ty	p 2x2MX HV	
		30° 15° 0° 15°
		90 ⁴
LED	CMA1303	
FWHM / FWTM	42.0° / 66.0°	78'
Efficiency	93 %	
Peak intensity	1.7 cd/lm	501-
LEDs/each optic	1	
Light colour	White	95*
Required components:		1200
Bender Wirth: 448 Ty	p 2x2MX HV	
,		
		300
		155 00 259
LED	XHP70.2	
FWHM / FWTM	62.0° / 90.0°	
Efficiency	85 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
Protective plate	a, glass	



OPTICAL RESULTS (SIMULATED):

		90° 90°
LED	XHP70.3 HD	
FWHM / FWTM	64.0° / 86.0°	75*
Efficiency	93 %	200
Peak intensity	0.8 cd/lm	69°
LEDs/each optic	1	$X \times X \times X \times X$
	ı White	400
Light colour Required components:	White	
Required components.		
		36° <u>800</u> 36° 36°
	DS	90° 90°
LED	LUXEON 7070	
FWHM / FWTM	54.0° / 80.0°	
Efficiency	94 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	$ \times / \times \times $
Light colour	White	434 434
Required components:		~~~~~~
		30° 30°
	US	30 ⁴ 30 ⁷
		90 ⁵ 90 ⁵
LED	SFT-40-WCS	39 ⁴ 39 ⁴ 39 ⁴ 39 ⁵
LED FWHM / FWTM		50° 50° 50° 50°
LED FWHM / FWTM Efficiency	SFT-40-WCS 40.0° / 58.0°	60°
LED FWHM / FWTM Efficiency Peak intensity	SFT-40-WCS 40.0° / 58.0° 95 %	60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm	g, g, g, g, e, e, e, e, e, e, e, e, e, e, e, e, e,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1	93 ⁴ 93 ⁴ 95 ⁴ 90 ⁶ 90 ⁶ 90 ⁶ 90 ⁶ 90 ⁶
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1	5°. 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1	60° 13° 13° 13° 13° 13° 13° 13° 13
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1	30° 60° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1 White SFT-40-WCS	25 26 26 27 26 27 26 27 26 27 26 27 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1 White US SFT-40-WCS 44.0° / 62.0°	51 ⁴ 51 ⁴ 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1 White US SFT-40-WCS 44.0° / 62.0° 95 %	51 ⁴ 51
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1 White US SFT-40-WCS 44.0° / 62.0°	51 ⁴ 51
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1 White US SFT-40-WCS 44.0° / 62.0° 95 % 1.7 cd/lm 1	90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1 White US SFT-40-WCS 44.0° / 62.0° 95 % 1.7 cd/lm	51 ⁴ 51
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1 White US SFT-40-WCS 44.0° / 62.0° 95 % 1.7 cd/lm 1	90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1 White US SFT-40-WCS 44.0° / 62.0° 95 % 1.7 cd/lm 1	500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1 White US SFT-40-WCS 44.0° / 62.0° 95 % 1.7 cd/lm 1	500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFT-40-WCS 40.0° / 58.0° 95 % 1.9 cd/lm 1 White US SFT-40-WCS 44.0° / 62.0° 95 % 1.7 cd/lm 1	500 500 500 500 500 500 500 500



OPTICAL RESULTS (SIMULATED):

	NF2x757G	90°
FWHM / FWTM	54.0° / 80.0°	75
Efficiency	94 %	400
Peak intensity	1.4 cd/lm	bo ²
LEDs/each optic	4	
Light colour	White	a ²⁴ a5*
Required components:		120
		155 0° 15° 30°
Μ ΝΙCΗΙΛ		90* 90*
LED	NFMW48xA	73'
FWHM / FWTM	49.0° / 72.0°	
Efficiency	94 %	60° 400 60°
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	gr
Light colour	White	
Required components:		
		36° 15° 0° 15°
Μ ΝΙCΗΙΛ		90 ⁺
	NV4WB35AM	90° 90°
	NV4WB35AM 46.0° / 68.0°	25 25 25 25 25 25 25 25 25 25 25 25 25 2
LED FWHM / FWTM Efficiency	46.0° / 68.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	46.0° / 68.0° 94 % 1.3 cd/lm	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	46.0° / 68.0° 94 % 1.3 cd/lm 1	1737
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	46.0° / 68.0° 94 % 1.3 cd/lm	57 50 57 57 57 57 57 57 57 57 57 57 57 57 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	46.0° / 68.0° 94 % 1.3 cd/lm 1	1737
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	46.0° / 68.0° 94 % 1.3 cd/lm 1	1737
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	46.0° / 68.0° 94 % 1.3 cd/lm 1	25 64 67 60 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	46.0° / 68.0° 94 % 1.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	46.0° / 68.0° 94 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	46.0° / 68.0° 94 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	46.0° / 68.0° 94 % 1.3 cd/lm 1 White OSCONIQ C 2424 48.0° / 74.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	46.0° / 68.0° 94 % 1.3 cd/lm 1 White OSCONIQ C 2424 48.0° / 74.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	46.0° / 68.0° 94 % 1.3 cd/lm 1 White OSCONIQ C 2424 48.0° / 74.0° 94 % 1.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	46.0° / 68.0° 94 % 1.3 cd/lm 1 White OSCONIQ C 2424 48.0° / 74.0° 94 % 1.5 cd/lm 4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	46.0° / 68.0° 94 % 1.3 cd/lm 1 White OSCONIQ C 2424 48.0° / 74.0° 94 % 1.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	46.0° / 68.0° 94 % 1.3 cd/lm 1 White OSCONIQ C 2424 48.0° / 74.0° 94 % 1.5 cd/lm 4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	46.0° / 68.0° 94 % 1.3 cd/lm 1 White OSCONIQ C 2424 48.0° / 74.0° 94 % 1.5 cd/lm 4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	46.0° / 68.0° 94 % 1.3 cd/lm 1 White OSCONIQ C 2424 48.0° / 74.0° 94 % 1.5 cd/lm 4	



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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LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc.

228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

Local sales and technical support www.ledil.com/ where_to_buy

Shipping locations

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