

# PRODUCT DATASHEET CS15765\_HB-2X2MX-8-WWW

# HB-2X2MX-8-WWW

~65° wide beam. New revision.

#### **SPECIFICATION:**

Dimensions	90.0 x 90.0 mm
Height	16.4 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



#### **MATERIALS**:

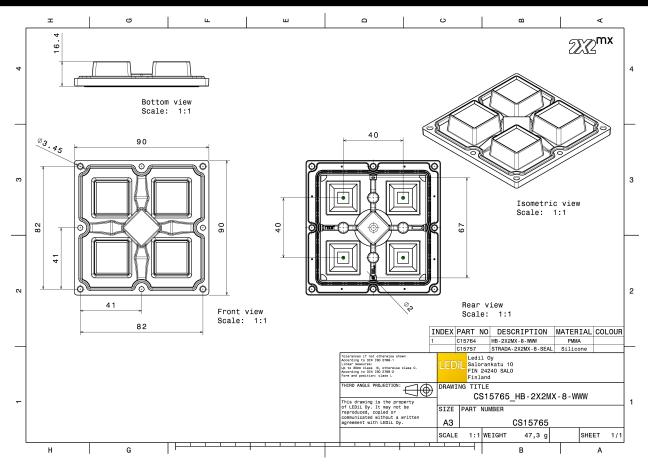
Component	Туре	Material	Colour	Finish
HB-2X2MX-8-WWW	Multi-lens	PMMA	clear	
STRADA-2X2MX-8-SEAL	Seal	Silicone	clear	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15765_HB-2X2MX-8-WWW	Multi-lens	156	52	52	8.4
» Box size: 480 x 280 x 300 mm					



# PRODUCT DATASHEET CS15765\_HB-2X2MX-8-WWW



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

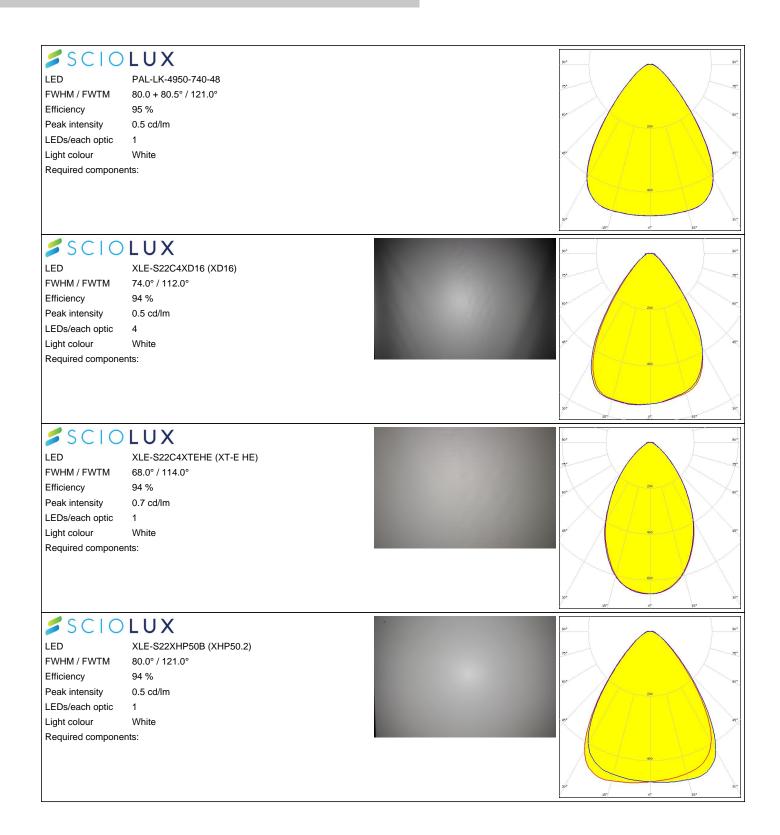


LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	CXA/B 15xx 62.0° / 123.0° 92 % 0.7 cd/lm 1 White nts: 41 Typ 2x2MX HV	
CREE ÷ LED FWHM / FWTM	XHP50.2 80.0° / 121.0°	90°
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 0.5 cd/lm 1 White	
CREE C	XT-E HE 68.0° / 114.0° 94 % 0.7 cd/lm 1 White nts:	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON M/MX 82.0° / 119.0° 94 % 0.5 cd/lm 1 White	



	FDS	5°
LED	LUXEON XR-7070 (L224-xxxx004MLU010)	
FWHM / FWTM	72.0° / 110.0°	72
Efficiency	95 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	gr un
Required compone	ents:	
		30* 137 0* 13*
ØNICHI/	١	9°
LED	NV9W149AM	
FWHM / FWTM	81.0° / 130.0°	
Efficiency	94 %	60
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		30° 15° 0° 15°
OSRAN	4	80
LED	PrevaLED Brick HP 2x2MX	
FWHM / FWTM	71.0° / 111.0°	72
Efficiency	93 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	4	
Light colour	White	9 <sup>4</sup>
Required compone	ents:	
		40
		20- 157 0 <sup>0</sup> 15 <sup>-</sup>
SAMS	UNG	50°
LED	HiLOM SC16 (LH181B)	
FWHM / FWTM	65.0° / 103.0°	71
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		60
		20 <sup>4</sup>
		10 V 10







SEOUL SEMICONDUCTOR					
LED	WICOP 5050				
FWHM / FWTM	80.0° / 123.0°				
Efficiency	96 %				
Peak intensity	0.5 cd/lm				
LEDs/each optic	1				
Light colour	White				
Required compone	ents:				
SECUL SEMICONDUCTOR				19 <sup>4</sup>	90*
SEOUL SEMICONDUCTOR	Z8Y22			29 <sup>4</sup>	90°
SEOUL SEMICONDUCTOR LED FWHM / FWTM	Z8Y22 68.0° / 108.0°			29*	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	68.0° / 108.0° 94 %			90* 77 60* 200	8° 75' 18'
seoul semiconductor LED FWHM / FWTM Efficiency	68.0° / 108.0°			99* 200 200	
	68.0° / 108.0° 94 % 0.6 cd/lm 4		1	99* 75* 69*	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	68.0° / 108.0° 94 % 0.6 cd/lm 4 White		1	99* 75* 55* 400	9°



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Bridgelux SMD 5050 78.0° / 105.0° 94 % 0.6 cd/lm 1 White	51 <sup>4</sup>
		15° 0° 15°
CITTIZEN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 434 Ty	CLU700/701/702/703 66.0° / 98.0° 92 % 0.8 cd/lm 1 White	91 92 72 60 60 60 80 80 80 80 80 80 80 80 80 80 80 80 80
		90* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 448 Ty	CMA1303 71.0° / 96.0° 96 % 0.7 cd/lm 1 White rp 2x2MX HV	77 64 67 60 70 80 80 80 80 80 80 80 80 80 80 80 80 80
		153 00 152
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP70.2 86.0° / 122.0° 89 % 0.4 cd/lm 1 White	91 <sup>4</sup> 92 <sup>4</sup> 77 77 70 70 70 70 70 70 70 70 70 70 70
Protective plate	e, glass	



r		
LED	XHP70.3 HD	90° 90°
FWHM / FWTM	86.0° / 120.0°	73* 77*
Efficiency	95 %	
Peak intensity	95 % 0.5 cd/lm	50* 69*
LEDs/each optic	1	- 200
Light colour	ı White	
Required components:	Wille	45°
Required components.		
		30* <u>15</u> <sup>5</sup> 50 <u>15</u> * 30*
LED	XP-E2	90*
FWHM / FWTM	82.0° / 96.0°	754 774
Efficiency	96 %	
Peak intensity	0.5 cd/lm	66* 66*.
LEDs/each optic	1	
Light colour	White	
Required components:		400
		$\times$ / $\times$ /
		000
		15° 0° 15° 30°
	)S	90° 25° 25° 90°
		90 <sup>4</sup> 10 <sup>4</sup> 10 <sup>4</sup> 10 <sup>4</sup> 90 <sup>4</sup>
LED	LUXEON 5050 Round LES	30* 30*   30* 30*
LED FWHM / FWTM	LUXEON 5050 Round LES 78.0° / 102.0°	33. 33.   33. 33.
LED FWHM / FWTM Efficiency	LUXEON 5050 Round LES 78.0° / 102.0° 97 %	30* 30* 30*   30* 30* 30*
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm	39* 39* 39*   39* 39* 39*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1	200 - 200 - 207 50 - 200 - 207
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm	20° 10° 10° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1	30* 30* 30*   50* 200 60*   60* 400 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1	30° 30° 30° 30°   90° 90° 90° 90°   90° 90° 90° 90°   90° 90° 90° 90°   90° 90° 90° 90°   90° 90° 90° 90°   90° 90° 90° 90°   90° 90° 90° 90°   90° 90° 90° 90°   90° 90° 90° 90°   90° 90° 90° 90°   90° 90° 90° 90°   90° 90° 90° 90°   90° 90° 90° 90°   90° 90° 90° 90° 90°   90° 90° 90° 90° 90°   90° 90° 90° 90° 90°   90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1 White S LUXEON 7070 75.0° / 108.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1 White S LUXEON 7070 75.0° / 108.0° 96 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1 White S LUXEON 7070 75.0° / 108.0° 96 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1 White Vhite LUXEON 7070 75.0° / 108.0° 96 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1 White Vhite LUXEON 7070 75.0° / 108.0° 96 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1 White Vhite LUXEON 7070 75.0° / 108.0° 96 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 78.0° / 102.0° 97 % 0.6 cd/lm 1 White Vhite LUXEON 7070 75.0° / 108.0° 96 % 0.7 cd/lm 1	



	JS	90° 90°
LED	MP 7070	
FWHM / FWTM	76.0° / 104.0°	
Efficiency	97 %	50° - 200 - 50°
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	97° 400 43°
Required components:		
		30° 30° 30°
	JS	90 <sup>+</sup>
LED	SFT-40-WCS	
FWHM / FWTM	82.0° / 94.0°	75°
Efficiency	97 %	
Peak intensity	0.6 cd/lm	50 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45'
Required components:		
		600
		(30* 15 <sup>*</sup> 0 <sup>*</sup> 15 <sup>*</sup>
	JS	91* 90*
LED		
	SET-70X-WCS	
	SFT-70X-WCS 82.0° / 98.0°	75.
FWHM / FWTM	82.0° / 98.0°	70 75.
FWHM / FWTM Efficiency	82.0° / 98.0° 97 %	778 72. 66 20 60
FWHM / FWTM Efficiency Peak intensity	82.0° / 98.0° 97 % 0.5 cd/lm	75 75° 64° 200 60°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	82.0° / 98.0° 97 % 0.5 cd/lm 1	73° 72 66° 230 60°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	82.0° / 98.0° 97 % 0.5 cd/lm	57 50 69 67 50 69
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	82.0° / 98.0° 97 % 0.5 cd/lm 1	73 72 72 72 72 72 72 72 72 72 72 72 72 72
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	82.0° / 98.0° 97 % 0.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	82.0° / 98.0° 97 % 0.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	82.0° / 98.0° 97 % 0.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	82.0° / 98.0° 97 % 0.5 cd/lm 1 White	200 00 <sup>4</sup> 200 00 <sup>4</sup> 200 00 <sup>4</sup> 200 00 <sup>4</sup> 00 <sup></sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	82.0° / 98.0° 97 % 0.5 cd/lm 1 White NF2x757G	200 64 57 50 60 10 <sup>4</sup> 10
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	82.0° / 98.0° 97 % 0.5 cd/lm 1 White NF2x757G 72.0° / 108.0°	200 64 57 50 50 50 50 50 50 50 50 50 50
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	82.0° / 98.0° 97 % 0.5 cd/lm 1 White NF2x757G 72.0° / 108.0° 97 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>ED</b> FWHM / FWTM Efficiency Peak intensity	82.0° / 98.0° 97 % 0.5 cd/lm 1 White NF2x757G 72.0° / 108.0° 97 % 0.7 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>WICHIN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	82.0° / 98.0° 97 % 0.5 cd/lm 1 White NF2x757G 72.0° / 108.0° 97 % 0.7 cd/lm 4	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	82.0° / 98.0° 97 % 0.5 cd/lm 1 White NF2x757G 72.0° / 108.0° 97 % 0.7 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>EXAMPLANCE</b> <b>EXAMPLANCE</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic	82.0° / 98.0° 97 % 0.5 cd/lm 1 White NF2x757G 72.0° / 108.0° 97 % 0.7 cd/lm 4	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	82.0° / 98.0° 97 % 0.5 cd/lm 1 White NF2x757G 72.0° / 108.0° 97 % 0.7 cd/lm 4	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	82.0° / 98.0° 97 % 0.5 cd/lm 1 White NF2x757G 72.0° / 108.0° 97 % 0.7 cd/lm 4	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	82.0° / 98.0° 97 % 0.5 cd/lm 1 White NF2x757G 72.0° / 108.0° 97 % 0.7 cd/lm 4	



<b>ΜΝΙCΗΙΛ</b>		90° 90°
LED	NFMW48xA	
FWHM / FWTM	79.0° / 106.0°	75*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	g*
Required components:		
		400
		30 150 0 <sup>1</sup> 150
<b>ΜΝΙCΗΙΛ</b>		90° 90°
LED	NV4WB35AM	
FWHM / FWTM	80.0° / 102.0°	75°
Efficiency	96 %	
Peak intensity	0.5 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45*
Required components:		
		460
		15° 0° 15°
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ C 2424	
FWHM / FWTM	74.0 + 75.0° / 104.0°	75
Efficiency	97 %	60 <sup>4</sup> 200 60 <sup>4</sup>
Peak intensity	0.6 cd/lm	$\wedge / / / \wedge \wedge /$
LEDs/each optic	4	
Light colour	White	42, 42,
Required components:		440
		30* 000 30*
OSRAM		40/ V( 30'
Opto Semiconductors		90* 90*
LED	OSCONIQ P 7070	25* 28*
FWHM / FWTM	82.0° / 112.0°	
Efficiency	96 %	60° 60°
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		300 100 100 300



SAMSU	NG	9x* 97*
LED	LH502C	
FWHM / FWTM	78.0° / 104.0°	
Efficiency	96 %	
Peak intensity	0.6 cd/lm	<sup>69*</sup>
LEDs/each optic	1	
Light colour	White	9°
Required componen	ts:	