

## STRADA-2X2MX-8-VSM

**IESNA** Type V (square) for wide areas lighting such as car parks. New revision.

#### **SPECIFICATION:**

Dimensions	90.0 x 90.0 mm
Height	13.1 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



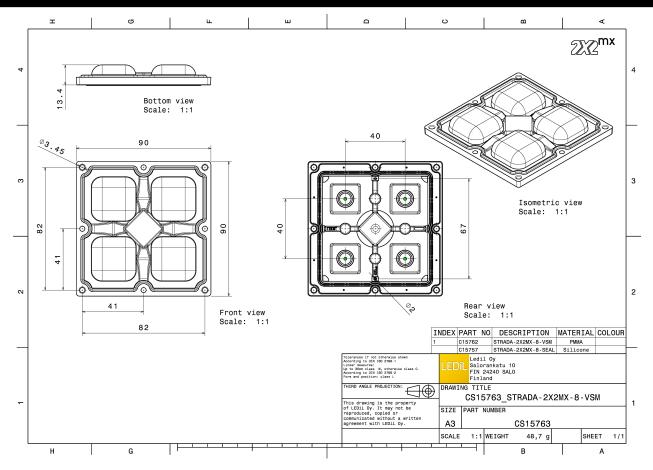
### MATERIALS:

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

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15763_STRADA-2X2MX-8-VSM	Multi-lens	156	52	52	8.6
» Box size: 480 x 280 x 300 mm					





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



		90° 90°
LED	XHP50.2	
FWHM / FWTM	151.0° / 159.0°	75* 75*
Efficiency	94 %	
Peak intensity	0.4 cd/lm	60° 200 60°
LEDs/each optic	1	
Light colour	White	45° 300 43°
Required compone		
		400
		X   X
		500
		50° 15° 30°
		90° 90°
LED	XT-E HE	
FWHM / FWTM	148.0° / 156.0°	75* 100 76*
Efficiency	94 %	
Peak intensity	0.4 cd/lm	. 60 <sup>6</sup> 200 60 <sup>7</sup> .
LEDs/each optic	1	$ \times / / \top \setminus \times $
Light colour	White	47° 300 57*
Required compone	ts:	
		400
		$\times$ / $\top$ / $\times$
		700
		125 0° 15*
🥙 LUMIL	EDS	50° 50°
LED	LUXEON M/MX	
FWHM / FWTM	Asymmetric	73* 700 75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	. 60°
LEDs/each optic	1	$\vee \times / \wedge \times \vee$
Light colour	White	43° 300 43°
Required compone	ts:	
		400
		500
		500
	EDS	300 - 130 - 300 - 300
O LUMIL		500 500 500 500 500 500 500 500 500 500
LED	LUXEON XR-7070 (L224-xxxx004MLU010)	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM	LUXEON XR-7070 (L224-xxxx004MLU010) 147.0° / 156.0°	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency	LUXEON XR-7070 (L224-xxxx004MLU010) 147.0° / 156.0° 97 %	50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity	LUXEON XR-7070 (L224-xxxx004MLU010) 147.0° / 156.0° 97 % 0.4 cd/lm	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-7070 (L224-xxxx004MLU010) 147.0° / 156.0° 97 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-7070 (L224-xxxx004MLU010) 147.0° / 156.0° 97 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-7070 (L224-xxxx004MLU010) 147.0° / 156.0° 97 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-7070 (L224-xxxx004MLU010) 147.0° / 156.0° 97 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-7070 (L224-xxxx004MLU010) 147.0° / 156.0° 97 % 0.4 cd/lm 1 White	
ED WHM / FWTM (fficiency Peak intensity EDs/each optic ight colour	LUXEON XR-7070 (L224-xxxx004MLU010) 147.0° / 156.0° 97 % 0.4 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50



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LED	NV9W149AM	
FWHM / FWTM	Asymmetric	710 50 710
Efficiency	94 %	100
Peak intensity	0.5 cd/lm	60* <u>50</u> * 60*
LEDs/each optic	1	200
Light colour	White	457 250 47
Required compone		300
		30° 450 15° 30°
OSRAM		90° 90°
LED	– PrevaLED Brick HP 2x2MX	
FWHM / FWTM	145.0° / 153.0°	75* 100 75*
Efficiency	96 %	
Peak intensity	0.4 cd/lm	60° 200 60°.
LEDs/each optic	4	$\times \times / \times \times$
Light colour	White	45* 300
Required compone		
		400
		200
		$\times$
		30° 15 <sup>5</sup> alto 15° 30°
SAMSU	ING	IN FT
LED		90* 95*
FWHM / FWTM	HiLOM SC16 (LH181B) 140.0° / 147.0°	75* 100 75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	50 <sup>4</sup> 200 50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45" 300 45"
Required compone		
		460
		X / T / X
		30° 15 <sup>5</sup> 66 15° 30°
SCIO	X	
		90° 90°
	PAL-LK-4950-740-48	751 781
FWHM / FWTM	150.5 + 151.0° / 159.5 + 159.0°	
Efficiency	97 %	60%
Peak intensity	0.4 cd/lm	$\times$ / $\rightarrow$
LEDs/each optic	1	
Light colour	White	45° % 45'
Required compone	IIIS.	
		460
		30° 25 <sup>5</sup> 0° 1° 30°



FWHM / FWTM 148.0° / 156.0° Efficiency 94 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: SCIOLUX LED XLE-S22XHP50B (XHP50.2) FWHM / FWTM 151.0° / 159.0° Efficiency 94 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: SUCOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/m LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/m			
LED XLE-S22XNP50B (XLP50.2) FMM / FWTM Asymmetric Efficiency 84% Pack Intensity 0.5 cd/m Light colour White Regulated components:	SCIO		
PWINK / PVTM Asymmetric Endinemy 94% Peak Intensity 0.5 colfm LEDWatch optic 4 LEDWatch optic 4 LEDWatch optic 4 LEDWatch optic 5 SCIOLUX LED XLE-3226XTEHE (KTE HE) PWINK / 150.0° Endinemy 94% Peak Intensity 0.4 colfm LEDWatch optic 1 LEDWatch optic 1 LEDWatch optic 1 LEDWatch optic 1 Light colour White Required components: EED XLE-322XHP505 (XHP50.2) PWINK / 151.0° / 151.0° Endinemy 94% Peak Intensity 0.4 colfm LEDWatch optic 1 Light colour White Required components: EED XLE-322XHP505 (XHP50.2) PWINK / 151.0° / 151.0° EED XLE-322XHP505 (XHP50.2) PWINK / VTM 151.0° / 151.0° EED XLE-322XHP505 (XHP50.2) PWINK / 151.0° / 151.0° EED XLE-322XHP505 (XHP50.2) PWINK / VTM 151.0° PWINK / VTM 151.0° EED XLE-322XHP505 (XHP50.2) PWINK / VTM 151.0° PWINK / VTM 150.0° PWINK / VTM 1			90° 90°
Efficiency 9 4'% Peak intensity 0.5 colim Light colour White Required components: SCIOLUX LED XLES22CXTEHE (XT.E.HE) PMHA /FWTM 140 0' 156.0' Efficiency 94 % Peak intensity 0.4 colim Light colour White Required components: SCIOLUX LED XLES22XHP06B (XHP50.2) FMHA /FWTM 151.0' 159.0' Efficiency 94 % Peak intensity 0.4 colim LED XLES22XHP06B (XHP50.2) FMHA /FWTM 151.0' 159.0' Efficiency 94 % Peak intensity 0.4 colim LED XLES22XHP06B (XHP50.2) FMHA /FWTM 151.0' 159.0' Efficiency 94 % Peak intensity 0.4 colim LED WICOP 5050 FWHA /FWTM 150.0' Efficiency 95 % Peak intensity 0.4 colim LED WICOP 5050 FWHA /FWTM 150.0' Efficiency 95 % Peak intensity 0.4 colim LED WICOP 5050 FWHA /FWTM 150.0' FMHA /FWTM 150.0' Efficiency 95 % Peak intensity 0.4 colim LED WICOP 5050 FWHA /FWTM 150.0' Efficiency 95 % Peak intensity 0.4 colim LED WICOP 5050 FWHA /FWTM 150.0' FMHA /FWTM 150.0' Efficiency 95 % Peak intensity 0.4 colim LED WICOP 5050 FWHA /FWTM 150.0' Efficiency 95 % Peak intensity 0.4 colim LED WICOP 5050 FWHA /FWTM 150.0' Efficiency 95 % Peak intensity 0.4 colim LED WICOP 5050 FWHA /FWTM 150.0' Efficiency 95 % Peak intensity 0.4 colim LED WICOP 5050 FWHA /FWTM 150.0' Efficiency 95 % Peak intensity 0.4 colim LED WICOP 5050 FWHA /FWTM 150.0' FWHA /FWTM 150.			73' 77
Peak Intensity 0.5 cd/m LED Alexandro optic 4 Upt colour White Required components: SCIOLUX LED XLE-322CAYTEHE (XT-E HE) FWHM / FWTM 148.0° / 158.0° Efficiency 94 % Required components: SCIOLUX LED XLE-322CAYTEHE (XT-E HE) FWHM / FWTM 148.0° / 158.0° Efficiency 94 % Required components: SCIOLUX LED XLE-322CAYTEHE (XT-E HE) FWHM / FWTM 148.0° / 158.0° Efficiency 94 % Required components: SCIOLUX LED XLE-322CAYTEHE (XT-E HE) FWHM / FWTM 148.0° / 158.0° Efficiency 94 % Deak Intensity 0.4 cd/m LED XLE-322CHF508 (XHP50.2) FWHM / FWTM 150.0° / 159.0° Efficiency 94 % Deak Intensity 0.4 cd/m LED XLE-322CHF508 (XHP50.2) FWTM / FWTM 150.0° / 159.0° Efficiency 94 % Deak Intensity 0.4 cd/m LED XLE-322CHF508 (XHP50.2) FWTM / FWTM 150.0° / 159.0° FWTM / FWTM 150.0° / 159.0° ELD XLE-322CHF508 (XHP50.2) FWTM / FWTM 150.0° / 159.0° FWTM / FWTM 150.0° FW		-	
LEDStand point 4 Light colour White Required components: SCIOLUX LED XLE-S22CH/TEHE (XT-E HE) FWHM / FWTM 145,0° / 156,0° Elicitony 94 % Peak Intensity 0.4 col/m LEDStand point 1 Light colour White Required components: SCIOLUX LED XLE-S22XHF508 (XHP50.2) FWHM / FWTM 151,0° / 159,0° Elicitony 94 % Required components: Elicitony 94 % Required components: Elicitony 94 % Required components: SECOLUX LED XLE-S22XHF508 (XHP50.2) FWHM / FWTM 151,0° / 159,0° Elicitony 94 % Required components: SECOLUX LED XLE-S22XHF508 (XHP50.2) FWHM / FWTM 151,0° / 159,0° Elicitony 94 % Required components: SECOLUX LED XLE-S22XHF508 (XHP50.2) FWHM / FWTM 150,0° / 159,0° Elicitony 94 % Required components: SECOLUX LED XLE-S22XHF508 (XHP50.2) FWHM / FWTM 150,0° / 159,0° Elicitony 94 % Required components: SECOLUX LED XLE-S22XHF508 (XHP50.2) FWHM / FWTM 150,0° / 159,0° Elicitony 94 % Peak Intensity 0.4 col/m LED XLE-S22XHF508 (XHP50.2) FWHM / FWTM 150,0° / 150,0° Elicitony 96 % Peak Intensity 0.4 col/m LED XLE-S22XHF508 (XHP50.2) FWHM / FWTM 150,0° / 150,0° Elicitony 96 % Peak Intensity 0.4 col/m LED XLE-S22XHF508 (XHP50.2) FWHM / FWTM 150,0° / 150,0° Elicitony 96 % Peak Intensity 0.4 col/m LED XLE-S22XHF508 (XHP50.2) FWHM / FWTM 150,0° / 150,0° Elicitony 96 % Peak Intensity 0.4 col/m LED XLE-S22XHF508 (XHP50.2) FWTM / FWTM 150,0° / 150,0° Elicitony 96 % Peak Intensity 0.4 col/m LED XLE-S22XHF508 (XHP50.2) FWTM / FWTM 150,0° / 150,0° Elicitony 96 % Peak Intensity 0.4 col/m LED XLE-S22XHF508 (XHP50.2) FWTM / FWTM 150,0° / 150,0° Elicitony 96 % Peak Intensity 0.4 col/m LED XLE-S22XHF508 (XHP50.2) FWTM / FWTM 150,0° / 150,0° Elicitony 96 % Peak Intensity 0.4 col/m LED XLE-S22XHF508 (XHP50.2) FWTM / FWTM 150,0° / 150,0° Elicitony 96 % PAU / FWTM 150,0° / 150,0° Elicitony 96 % PAU / FWTM 150,0° / 150,0° Elicitony 96 % PUTM / 150,0° / 150,0° Elicitony 96 % PUTM 150,			604 604
Light colour While Required components: ED XLE-S22C4XTFHE (XT-E HE) FWHM /FWTM 148,0° 156,0° Endency 94% Peak intensity 0.4 colm LEDS/sech optic 1 LEDS/sech o			200
Required components:			
ED       XLE-S22C4XTEHE (XT-E HE)         FWHM / FWTM       148,07 / 156,0°         Efficiency       94 %         Peak Intensity       04 od/m         LED/seach optic       1         Light colour       White         Required components:       Image: Components         EED/seach optic       1         Light colour       White         Required components:       Image: Components         EED/seach optic       1         Light colour       White         Required components:       Image: Components         EED/seach optic       1         Light colour       White         Required components:       Image: Components         EED/seach optic       1         Light colour       White         Required components:       Image: Components         EED/seach optic       1         Light colour       White         Required components:       Image: Components         EED/seach optic       1         Light colour       White         Required components:       Image: Components         EED/seach optic       Image: Components         EED/seach optic       Image: Components         <			45* 300 45*
LED XLE-S22C4XTEHE (XT-E HE) FWHM / FVTTM 148,0° / 166,0° Efficiency 94 % Peak intensity 0.4 cd/lm LED&teach optic 1 LED&teach optic 1 LED&teach optic 2 ED XLE-S22XHP50B (XHP50.2) FWHM / FVTTM 151,0° / 159,0° Efficiency 94 % Peak intensity 0.4 cd/lm LED&teach optic 1 LED&teach optic 1	Required componer	its:	$\times$
LED XLE-S22C4XTEHE (XT-E HE) FWHM / FVTTM 148,0° / 166,0° Efficiency 94 % Peak intensity 0.4 cd/lm LED&teach optic 1 LED&teach optic 1 LED&teach optic 2 ED XLE-S22XHP50B (XHP50.2) FWHM / FVTTM 151,0° / 159,0° Efficiency 94 % Peak intensity 0.4 cd/lm LED&teach optic 1 LED&teach optic 1			400
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LED XLE-S22C4XTEHE (XT-E HE) FWHM / FVTTM 148,0° / 166,0° Efficiency 94 % Peak intensity 0.4 cd/lm LED&teach optic 1 LED&teach optic 1 LED&teach optic 2 ED XLE-S22XHP50B (XHP50.2) FWHM / FVTTM 151,0° / 159,0° Efficiency 94 % Peak intensity 0.4 cd/lm LED&teach optic 1 LED&teach optic 1			30° 30°
LED XLE-S22C4XTEHE (XT-E HE) FWHM / FVTTM 148,0° / 166,0° Efficiency 94 % Peak intensity 0.4 cd/lm LED&teach optic 1 LED&teach optic 1 LED&teach optic 2 ED XLE-S22XHP50B (XHP50.2) FWHM / FVTTM 151,0° / 159,0° Efficiency 94 % Peak intensity 0.4 cd/lm LED&teach optic 1 LED&teach optic 1			13, 0, 15,
FWHM / FWTM 148.0° / 156.0° Efficiency 94% Peak intensity LED XLE-S22XHP50B (XHP50.2) FWHM / FWTM 151.0° / 159.0° Efficiency 94% Peak intensity 0.4 cd/m LEDS/each optic 1 Light colour White Required components: WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 94% Peak intensity 0.4 cd/m LEDS/each optic 1 Light colour White Required components: WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDS/each optic 1 Light colour White Required components: WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/m	SCIO	LUX	90* 90*
FWHM / FWTM 148.0* / 156.0° Efficiency 94 % Peak intensity 0.4 cd/m Light colour White Required components: SCIOLUX LED XLE-S22XHP50B (XHP50.2) FWHM / FWTM 151.0* / 158.0° Efficiency 94 % Peak intensity 0.4 cd/m LEDSeach optic 1 Light colour White Required components: SUBCONCRE LED WICOP 5050 FWHM / FWTM 150.0* / 158.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDSeach optic 1 Light colour White Required components: SUBCONCRE LED WICOP 5050 FWHM / FWTM 150.0* / 158.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDSeach optic 1 Light colour White Required components: SUBCONCRE LED WICOP 5050 FWHM / FWTM 150.0* / 158.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDSeach optic 1 Light colour White Required components:	LED	XLE-S22C4XTEHE (XT-E HE)	
Peak intensity 0.4 cd/m LEDS/each optic 1 LEDS XLE-S22XHP50B (XHP50.2) EVHM / FWTM 151.0° / 158.0° Efficiency 94 % Peak intensity 0.4 cd/m LEDS/each optic 1 Light colour White Required components: WICOP 5050 FWHM / FWTM 150.0° / 158.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDS/each optic 1 Light colour White Required components:	FWHM / FWTM		75*
LEDs/each optic 1 Light colour White Required components: SCIOLUX LED XLE-S22XHP50B (XHP50.2) FWHM / FWTM 151.0* / 159.0* Efficiency 94% Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: SEREMENTAL LED WICOP 5050 FWHM / FWTM 150.0* / 159.0* Efficiency 96% Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:	Efficiency	94 %	
LEDs/each optic 1 Light colour White Required components: SCIOLUX LED XLE-S22XHP50B (XHP50.2) FWHM / FWTM 151.0* / 159.0* Efficiency 94% Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: SEREMENTAL LED WICOP 5050 FWHM / FWTM 150.0* / 159.0* Efficiency 96% Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:	Peak intensity	0.4 cd/lm	60 <sup>6</sup> 200 60 <sup>4</sup> .
Light colour White Required components: SCIOLUX LED XLE-S22XHP50B (XHP50.2) FWHM /FWTM 151.0° / 159.0° Efficiency 94 % Peak intensity 0.4 col/m LEDs/each optic 1 Light colour White Required components: SUSCONCER LED WICOP 5050 FWHM /FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 col/m LEDS/each optic 1 LEDS wicop 5050 FWHM /FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 col/m LEDS/each optic 1 LEDS wicop 5050 FWHM /FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 col/m LEDS/each optic 1 LEDS/each optic 1 LED	LEDs/each optic	1	X//T
Image: Sciolar State St	Light colour	White	45° 3% 45°
LED XLE-S22XHP50B (XHP50.2) FWHM / FWTM 151.0° / 159.0° Efficiency 94 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: SW0.15WCNOTOR LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:	Required componer	its:	
LED XLE-S22XHP50B (XHP50.2) FWHM / FWTM 151.0° / 159.0° Efficiency 94 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: SW0.15WCNOTOR LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:			400
LED XLE-S22XHP50B (XHP50.2) FWHM / FWTM 151.0° / 159.0° Efficiency 94 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: SW0.15WCNOTOR LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:			$\times$ / $\top$ / $\times$
LED XLE-S22XHP50B (XHP50.2) FWHM / FWTM 151.0° / 159.0° Efficiency 94 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: SW0.15WCNOTOR LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:			
LED XLE-S22XHP50B (XHP50.2) FWHM / FWTM 151.0° / 159.0° Efficiency 94 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: SW0.15WCNOTOR LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:			130° 15 <sup>5</sup> 0 <sup>6</sup> 15° 30°
LED XLE-S22XHP50B (XHP50.2) FWHM / FWTM 151.0° / 159.0° Efficiency 94 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: SW0.15WCNOTOR LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:	SCIO	LUX	90° 90°
FWHM / FWTM 151.0° / 159.0° Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	LED		
Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: STORE LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/lm LEDs/each optic 1 LEDs/each optic 1 LE			75*
Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:			
LEDs/each optic 1 Light colour White Required components: SKOULSONCOULTE LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:		0.4 cd/lm	60° 60°
Light colour White Required components: SKOULSUNCONDUCTOR LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:	-		
Required components: WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:		White	45* 300 45*.
SROULSEWECHNEL LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:			$\times$ / $\times$ /
seour semiconoucrom LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:			440
seour semiconoucrom LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:			X   X
seour semiconoucrom LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:			500
seour semiconoucrom LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:			130° 15° 0° 15° 30°
LED WICOP 5050 FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	and the second se		
FWHM / FWTM 150.0° / 159.0° Efficiency 96 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:			90° 90°
Efficiency 96 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:			751 752
Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:		100.0 / 103.0	100
LEDs/each optic 1 Light colour White Required components:	Efficiency		
Light colour White Required components:	Efficiency Reak intensity	96 %	50*
Required components:	Peak intensity	96 % 0.4 cd/lm	60 - <u>209</u> - 67.
	Peak intensity LEDs/each optic	96 % 0.4 cd/lm 1	er 200 6A
	Peak intensity LEDs/each optic Light colour	96 % 0.4 cd/lm 1 White	er 20 6A
20° <u>22</u> <u>500</u> <u>1</u> , 30°	Peak intensity LEDs/each optic Light colour	96 % 0.4 cd/lm 1 White	60° 60°. 6° 300 6°.
50° 500 50° 50° 50°	Peak intensity LEDs/each optic Light colour	96 % 0.4 cd/lm 1 White	60 <sup>4</sup> 200 60 <sup>4</sup> . 60 <sup>4</sup> 300 60 <sup>4</sup> .
	Peak intensity LEDs/each optic Light colour	96 % 0.4 cd/lm 1 White	60 <sup>4</sup> 200 60 <sup>4</sup>



SEOUL SEOUL SEMICONDUCTOR		27 27
LED	Z8Y22	
FWHM / FWTM	Asymmetric	75 100 75
Efficiency	94 %	
Peak intensity	0.5 cd/lm	.60 <sup>4</sup> 200 60 <sup>4</sup> .
LEDs/each optic	4	
Light colour	White	d'
Required compone	ents:	
		40
		500 500 500 500 500 500 500 500 500 500



bridgelux.		
LED	Bridgelux SMD 5050	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.4 cd/lm	60 <sup>4</sup> 200 60 <sup>4</sup> .
LEDs/each optic	1	
Light colour	White	-5° - 300 - 67*.
Required components:		
riedanea compension		400
		560
		30° 13° 30°
CITIZEN		
LED	CLU700/701/702/703	90* 90*
FWHM / FWTM	Asymmetric	75° 100 75°
Efficiency	93 %	
Peak intensity	0.5 cd/lm	.60 <sup>4</sup> 200 60 <sup>4</sup> .
LEDs/each optic	1	
Light colour	White	45°
Required components:	White	
Bender Wirth: 434 Ty	n 2x2MX HV	400
		200
		$\times$ / $\wedge$ $\times$
		30° 15° 80 15° 30°
CREE ≑		
	CMA1202	82
LED	CMA1303	30 <sup>2</sup> 73 <sup>3</sup> 100 75
LED FWHM / FWTM	142.0° / 152.0°	90° 73° 100 100 100 100 100
LED FWHM / FWTM Efficiency	142.0° / 152.0° 95 %	90° 73° 06° 06° 200 07°
LED FWHM / FWTM Efficiency Peak intensity	142.0° / 152.0° 95 % 0.5 cd/lm	90° 90° 73° 100 75° 60° 200 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	142.0° / 152.0° 95 % 0.5 cd/lm 1	94 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	142.0° / 152.0° 95 % 0.5 cd/lm	20 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	142.0° / 152.0° 95 % 0.5 cd/lm 1 White	20 67. 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	142.0° / 152.0° 95 % 0.5 cd/lm 1 White	20 67. 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	142.0° / 152.0° 95 % 0.5 cd/lm 1 White	6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 488 Ty	142.0° / 152.0° 95 % 0.5 cd/lm 1 White	20 67. 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 488 Ty	142.0° / 152.0° 95 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 488 Ty	142.0° / 152.0° 95 % 0.5 cd/lm 1 White p L4 HV	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 488 Ty	142.0° / 152.0° 95 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 488 Ty EED FWHM / FWTM	142.0° / 152.0° 95 % 0.5 cd/lm 1 White p L4 HV	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 488 Ty	142.0° / 152.0° 95 % 0.5 cd/lm 1 White p L4 HV J Series 5050B 30V K Class 148.0° / 158.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 488 Ty Ender Wirth: 488 Ty ELED FWHM / FWTM Efficiency Peak intensity	142.0° / 152.0° 95 % 0.5 cd/lm 1 White p L4 HV J Series 5050B 30V K Class 148.0° / 158.0° 89 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 488 Ty Ender Wirth: 488 Ty LED FWHM / FWTM Efficiency	142.0° / 152.0° 95 % 0.5 cd/lm 1 White p L4 HV J Series 5050B 30V K Class 148.0° / 158.0° 89 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 488 Ty Ender Wirth: 488 Ty ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	142.0° / 152.0° 95 % 0.5 cd/lm 1 White p L4 HV J Series 5050B 30V K Class 148.0° / 158.0° 89 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 488 Ty Ender Wirth: 488 Ty EEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	142.0° / 152.0° 95 % 0.5 cd/lm 1 White p L4 HV J Series 5050B 30V K Class 148.0° / 158.0° 89 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 488 Ty Ender Wirth: 488 Ty EEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	142.0° / 152.0° 95 % 0.5 cd/lm 1 White p L4 HV J Series 5050B 30V K Class 148.0° / 158.0° 89 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Bender Wirth: 488 Ty Ender Wirth: 488 Ty EEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	142.0° / 152.0° 95 % 0.5 cd/lm 1 White p L4 HV J Series 5050B 30V K Class 148.0° / 158.0° 89 % 0.4 cd/lm 1	



		90* 90*
LED	MHB-A/B	750 701
FWHM / FWTM	152.0° / 160.0°	
Efficiency	95 %	60°
Peak intensity	0.4 cd/lm	20
LEDs/each optic	1	
Light colour	White	45* 200 45*
Required components:		$\times$
		400
		20* <u>500</u> 30*
CREE ≑		
LEDS	V(UD70.0.UD	90* 90 <sup>*</sup>
LED	XHP70.3 HD	
FWHM / FWTM	152.0° / 160.0°	
Efficiency	94 %	60° 60°.
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	× × ×
Light colour	White	-6°
Required components:		40
		$\times$ / $\times$
		560
		30°
1		
CREE 🚖		
LED	XT-E	
LED FWHM / FWTM	148.0° / 180.0°	
LED FWHM / FWTM Efficiency	148.0° / 180.0° 93 %	
LED FWHM / FWTM Efficiency Peak intensity	148.0° / 180.0° 93 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	148.0° / 180.0° 93 % 0.5 cd/lm 1	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	148.0° / 180.0° 93 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	148.0° / 180.0° 93 % 0.5 cd/lm 1	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	148.0° / 180.0° 93 % 0.5 cd/lm 1	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	148.0° / 180.0° 93 % 0.5 cd/lm 1	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	148.0° / 180.0° 93 % 0.5 cd/lm 1	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	148.0° / 180.0° 93 % 0.5 cd/lm 1 White	6° 40 60 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	148.0° / 180.0° 93 % 0.5 cd/lm 1 White	6° 40 60 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	148.0° / 180.0° 93 % 0.5 cd/lm 1 White	6° 60 60 80 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	148.0° / 180.0° 93 % 0.5 cd/lm 1 White S LUXEON 5050 Round LES 146.0° / 154.0°	6° 40 60 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	148.0° / 180.0° 93 % 0.5 cd/lm 1 White	6° • • • • • • • • • • • • • • • • • • •
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	148.0° / 180.0° 93 % 0.5 cd/lm 1 White UXEON 5050 Round LES 146.0° / 154.0° 95 % 0.5 cd/lm	6° • • • • • • • • • • • • • • • • • • •
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>CONTINUES</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	148.0° / 180.0° 93 % 0.5 cd/lm 1 White UXEON 5050 Round LES 146.0° / 154.0° 95 % 0.5 cd/lm 1	6, 6, 10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	148.0° / 180.0° 93 % 0.5 cd/lm 1 White UXEON 5050 Round LES 146.0° / 154.0° 95 % 0.5 cd/lm	6° • • • • • • • • • • • • • • • • • • •
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>CONTINUES</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	148.0° / 180.0° 93 % 0.5 cd/lm 1 White UXEON 5050 Round LES 146.0° / 154.0° 95 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	148.0° / 180.0° 93 % 0.5 cd/lm 1 White UXEON 5050 Round LES 146.0° / 154.0° 95 % 0.5 cd/lm 1	6, 6, 10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	148.0° / 180.0° 93 % 0.5 cd/lm 1 White	6, 6, 10 10 10 10 10 10 10 10 10 10



	DS	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 150.0° / 158.0° 95 % 0.4 cd/lm 1 White	
<b>Μ</b> ΝΙCΗΙΛ		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NF2x757G 148.0° / 156.0° 95 % 0.4 cd/lm 4 White	
<b>Μ</b> ΝΙCΗΙΛ		997 20 <sup>3</sup> 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NFMW48xA Asymmetric 94 % 45 cd/lm 1 White	23 <u>19</u> 64 <u>90</u> 67 <u>90</u> 60 <u>60</u>
		30 <sup>4</sup> 55 <sup>5</sup> 600 15 <sup>5</sup> 3
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NV4WB35AM 148.0° / 162.0° 95 % 0.5 cd/lm 1 White	99- 73- 66- 66- 70- 70- 70- 70- 70- 70- 70- 70- 70- 70
Required components:		90 30 <sup>4</sup> 15 <sup>5</sup> 00 15 <sup>4</sup>



<b>Μ</b> ΝΙCΗΙΛ		
LED	NVSxE21A	90* 90*
FWHM / FWTM	146.0° / 154.0°	75° 100 75°
Efficiency	95 %	60 <sup>4</sup> 200 60 <sup>4</sup>
Peak intensity	0.5 cd/lm	
LEDs/each optic	4	X
Light colour	White	451 451
Required components:		400
		X / T / X
		30* 15 <sup>5</sup> 800 13* 30*
<b>Μ</b> ΝΙCΗΙΛ		90* 90*
LED	NVSxE21A	
FWHM / FWTM	148.0° / 156.0°	75°
Efficiency	95 %	
Peak intensity	0.4 cd/lm	.50* 60*
LEDs/each optic	9	
Light colour	White	43° 300 43°
Required components:		
		$\times$ / $\times$
		500
		30° 15 <sup>3</sup> 0° 15°
OSRAM Opto Semiconductors		
LED	OSCONIQ C 2424	
FWHM / FWTM		- man
	148.0° / 156.0°	750 100 750
	148.0° / 156.0° 95 %	
Efficiency		10 <sup>1</sup> 20 60 <sup>4</sup>
Efficiency Peak intensity	95 %	29 <u>10</u> 79 60 <sup>4</sup> <u>20</u> 60 <sup>4</sup>
Efficiency Peak intensity LEDs/each optic	95 % 0.4 cd/lm	50° 500 60°
Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.4 cd/lm 4	5° 70 6°
Efficiency Peak intensity LEDs/each optic	95 % 0.4 cd/lm 4	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.4 cd/lm 4	
Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.4 cd/lm 4	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	95 % 0.4 cd/lm 4	
Efficiency Peak intensity LEDs/each optic Light colour	95 % 0.4 cd/lm 4	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	95 % 0.4 cd/lm 4	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	95 % 0.4 cd/lm 4 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Optio Semiconductors LED	95 % 0.4 cd/lm 4 White OSCONIQ P 7070	20 20 20 20 20 20 20 20 20 20
Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	95 % 0.4 cd/lm 4 White OSCONIQ P 7070 Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required components: ODSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	95 % 0.4 cd/lm 4 White OSCONIQ P 7070 Asymmetric 94 %	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	95 % 0.4 cd/lm 4 White OSCONIQ P 7070 Asymmetric 94 % 0.4 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	95 % 0.4 cd/lm 4 White OSCONIQ P 7070 Asymmetric 94 % 0.4 cd/lm 1	200 200 200 200 200 200 200 200 200 200
Efficiency Peak intensity LEDs/each optic Light colour Required components:	95 % 0.4 cd/lm 4 White OSCONIQ P 7070 Asymmetric 94 % 0.4 cd/lm 1	200 200 200 200 200 200 200 200 200 200
Efficiency Peak intensity LEDs/each optic Light colour Required components:	95 % 0.4 cd/lm 4 White OSCONIQ P 7070 Asymmetric 94 % 0.4 cd/lm 1	200 200 200 200 200 200 200 200 200 200
Efficiency Peak intensity LEDs/each optic Light colour Required components:	95 % 0.4 cd/lm 4 White OSCONIQ P 7070 Asymmetric 94 % 0.4 cd/lm 1	200 200 200 200 200 200 200 200 200 200



SEOUL SEOUL SEMICONDUCTOR		80°
LED	Z8Y19	
FWHM / FWTM	Asymmetric	72° 200 72°
Efficiency	93 %	
Peak intensity	0.5 cd/lm	.60 <sup>4</sup> 200 60 <sup>4</sup> .
LEDs/each optic	4	
Light colour	White	61 300 61.
Required component	s:	
		10 200 200 200 200 200



#### **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:**

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