

# PRODUCT DATASHEET C13499\_STRADA-2X2-CY

## STRADA-2X2-CY

Beam for canopy lighting with batwing light distribution. Suitable for symmetrical tunnel lighting.

### **TECHNICAL SPECIFICATIONS:**

Dimensions	50.0 x 50.0 mm
Height	6 mm
Fastening	screw
ROHS compliant	yes 🛈



### **MATERIAL SPECIFICATIONS:**

Component STRADA-2X2-CY

Туре	
Multi-lens	

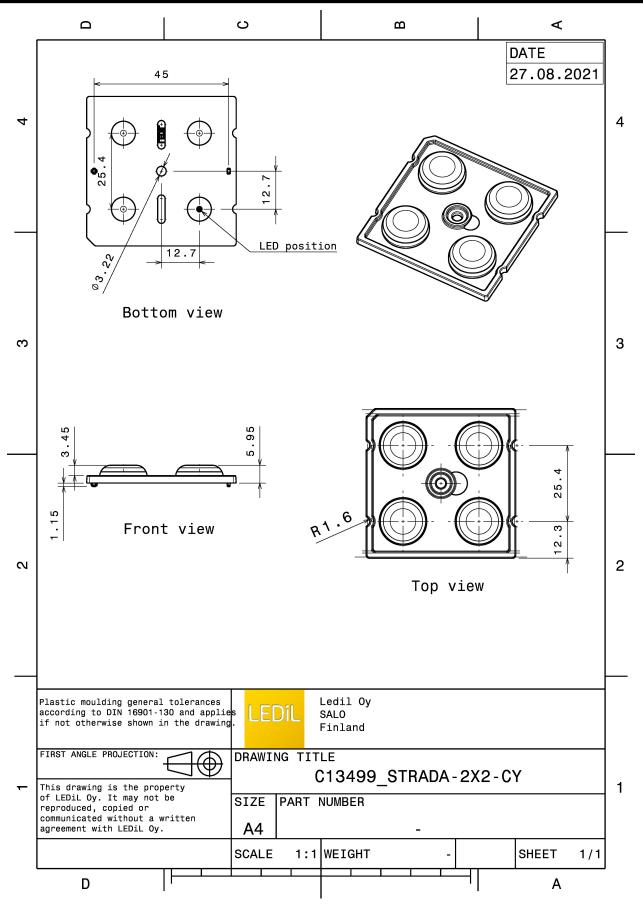
	Material	Colour	Finish
S	PMMA	clear	

### **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13499_STRADA-2X2-CY	800	160	160	6.2
» Box size: 480 x 280 x 300 mm				



## PRODUCT DATASHEET C13499\_STRADA-2X2-CY



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



bridgelux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Bridgelux SMD 5050 120.0 + 119.0° / 143.0 + 139.0° 94 % 0.3 cd/lm 1 White nts:	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XD16 125.0 + 124.0° / 149.0 + 145.0° 94 % 0.3 cd/lm 4 White	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XD16 132.0 + 130.0° / 152.0 + 148.0° 94 % 0.4 cd/lm 1 White	
CREE LEC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L 126.0° / 149.0° 94 % 0.3 cd/lm 1 White	



	D		90°	90*
LED	XM-L2			
FWHM / FWTM	121.0° / 145.0 + 143.0°		730	70'
Efficiency	94 %		100	
Peak intensity	0.3 cd/lm		504	60*
LEDs/each optic	1			
Light colour	White		45*	45*
Required compone				
			30° 13° 400	15* 30*
	D		90*	90*
LED	XM-L3			
FWHM / FWTM	Asymmetric		750	775
Efficiency	98 %		- 100 - 200	$\mathcal{N}\mathcal{K}$
Peak intensity	0.3 cd/lm		60° (	60*
LEDs/each optic	1			
Light colour	White		45*	45*
Required compone	ents:			
			300	
			$\times$	
			30* 400 15 <sup>5</sup> 0°	30*
	ס			
LED	XP-G		90*	90*
LED FWHM / FWTM	131.0° / 152.0°		750	10.
Efficiency	94 %		100-	
Peak intensity	0.3 cd/lm		.604	60*
Feak intensity	0.5 60/111			
LEDs/each ontic				
LEDs/each optic	1		200	
Light colour	1 White	_	45*	
LEDs/each optic Light colour Required compone	1 White	_	57	6'
Light colour	1 White		e <sup>7</sup>	57
Light colour	1 White		4°	61
Light colour	1 White		20 0 <sup>2</sup> 20 20 20 20 20 20 20	25" 39"
Light colour Required compone	1 White ents:			12 <sup>2</sup> 20
Light colour Required compone	1 White ents:			237 297
Light colour Required compone	1 White ents: D XP-G2			27° 39'
Light colour Required compone CREE 2 LEU LED FWHM / FWTM	1 White ents: XP-G2 129.0° / 151.0°			
Light colour Required compone CREE (LED FWHM / FWTM Efficiency	1 White ents: XP-G2 129.0° / 151.0° 94 %			23 <sup>1</sup> 23 <sup>1</sup>
Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity	1 White ents: XP-G2 129.0° / 151.0°			20 20 20 20 20 20 20 20 20 20 20 20 20 2
Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White ents: XP-G2 129.0° / 151.0° 94 % 0.3 cd/lm			
Light colour Required compone CREE (LED FWHM / FWTM Efficiency	1 White ents: XP-G2 129.0° / 151.0° 94 % 0.3 cd/lm 1 White		20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	
Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ents: XP-G2 129.0° / 151.0° 94 % 0.3 cd/lm 1 White		20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	6) 12 <sup>2</sup> 20 22 22 20
Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ents: XP-G2 129.0° / 151.0° 94 % 0.3 cd/lm 1 White		20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	
Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ents: XP-G2 129.0° / 151.0° 94 % 0.3 cd/lm 1 White		20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -	



r		
LED	XP-G3	
FWHM / FWTM	131.0 + 132.0° / 154.0°	780 780
Efficiency	94 %	100
Peak intensity	0.3 cd/lm	60° ( ) 60°
LEDs/each optic	1	200
Light colour	White	
Required componer		
		$\times$
		400
		(30° 30° 30° 30° 30°
		90° 90°
LED	XP-G3	
FWHM / FWTM	Asymmetric	75* 100 75*
Efficiency	83 %	
Peak intensity	0.4 cd/lm	00° 200 60°
LEDs/each optic	1	
Light colour	White	45* 30 45*
Required componer		
C17580_STRAD	A-2X2-SHD-WHT	460
		$\times$ / T \ $\lambda$
		30* 20 3* 30*
LED	XP-G3	90* 90*
FWHM / FWTM	Asymmetric	75°
Efficiency	62 %	/
Peak intensity	0.3 cd/lm	604 604
LEDs/each optic	1	
Light colour	White	
Required componer		
C17677_STRAD		300
		$\times$ / $\setminus$ $\times$
	-	130" 115° 30"
		90* 90*
LED	XP-L HD	
FWHM / FWTM	131.0° / 157.0°	750 750
Efficiency	94 %	100
Peak intensity	0.3 cd/lm	er er
LEDs/each optic	1	200
Light colour	White	65' 63'
Required componer		$\times$
		300
		$\times$ / $\mid$ $\setminus$ $\times$
		460



		50 <sup>4</sup>
LED	 XP-L HI	
FWHM / FWTM	127.0° / 150.0 + 147.0°	739
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	200
Light colour	White	451
Required compone	nts:	
		30*
		24 <sup>5</sup> 0 <sup>1</sup> 12 <sup>6</sup>
		90*
LED	XP-L2	775
FWHM / FWTM	127.0° / 156.0 + 153.0°	
Efficiency	94 %	50 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour Required compone	White	· · · · · · · · · · · · · · · · · · ·
Requirea compone	nts:	
		***
		$\times$ / $\setminus$
		30* <u>15</u> * 48 <u>15</u> *
LED	XT-E	
FWHM / FWTM	136.0° / 156.0°	736
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
	1	
Light colour	White	200
Light colour Required compone	White	47 - 20
	White	67
	White	6 <sup>3</sup> 20
	White	5° 
Required compone	White nts:	9° <u>10°</u> <u>10°</u>
Required compone	White nts:	
Required compone	White nts: EDS LUXEON 5050 Round LES	
Required compone	White nts: EDS LUXEON 5050 Round LES 121.0° / 143.0°	
Required compone	White nts: EDS LUXEON 5050 Round LES 121.0° / 143.0° 94 %	
Required compone Composed by the second sec	White nts: EDS LUXEON 5050 Round LES 121.0° / 143.0° 94 % 0.3 cd/lm	
Required compone Composed by the second sec	White nts: EDS LUXEON 5050 Round LES 121.0° / 143.0° 94 % 0.3 cd/lm 1	
Required compone Composed by the second sec	White nts: EDS LUXEON 5050 Round LES 121.0° / 143.0° 94 % 0.3 cd/lm 1 White	
Required compone Composed by the second sec	White nts: EDS LUXEON 5050 Round LES 121.0° / 143.0° 94 % 0.3 cd/lm 1 White	
Required compone Composed by the second sec	White nts: EDS LUXEON 5050 Round LES 121.0° / 143.0° 94 % 0.3 cd/lm 1 White	
Required compone	White nts: EDS LUXEON 5050 Round LES 121.0° / 143.0° 94 % 0.3 cd/lm 1 White	



UMIL	EDS		90*	90*
LED	LUXEON MZ			
FWHM / FWTM	123.0° / 144.0°		736	
Efficiency	94 %			
Peak intensity	0.4 cd/lm			
LEDs/each optic	1			
Light colour	White		451	6
Required compone	nts:			
			30*	30'
	EDS			F-1
LED	LUXEON Q		90*	90"
FWHM / FWTM	134.0° / 157.0°		738	77
Efficiency	94 %			
Peak intensity	0.3 cd/lm		. 50*	60'
LEDs/each optic	1			
Light colour	White		45*	
Required compone				
			*	0
			$\mathbf{X}$	
				•
<b>A</b>			30 13 <sup>5</sup> 0	15* 30
UMIL	EDS		90*	90*
LED	LUXEON T			
FWHM / FWTM	127.0° / 147.0°		200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200 - 200	
Efficiency	94 %		60*	
Peak intensity	0.3 cd/lm			$\sim$
LEDs/each optic	1		$\times$ $\lambda$ $\sim$	
Light colour	White		45*	65
Required compone	nts:			•
			40	•
			30*	30
		 	12/2 01	15*
	EDS		252 04	15*
			25 <sup>5</sup> 0	10°
LUMIL     LED     FWHM / FWTM	EDS LUXEON TX 123.0° / 146.0 + 143.0°		25 <sup>5</sup> 0 <sup>4</sup>	17°
LED FWHM / FWTM	LUXEON TX		20 <sup>5</sup> 0 90 <sup>4</sup> 72 72	23°
LED	LUXEON TX 123.0° / 146.0 + 143.0°		20 <sup>3</sup> 0 90 <sup>4</sup> 70 <sup>5</sup> 60 <sup>4</sup>	23°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON TX 123.0° / 146.0 + 143.0° 94 %		20 <sup>3</sup> 0 90 <sup>4</sup> 20 80 <sup>4</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX 123.0° / 146.0 + 143.0° 94 % 0.3 cd/lm		25° 0'	
LED FWHM / FWTM Efficiency	LUXEON TX 123.0° / 146.0 + 143.0° 94 % 0.3 cd/lm 1 White		25 <sup>5</sup> 0	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 123.0° / 146.0 + 143.0° 94 % 0.3 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 123.0° / 146.0 + 143.0° 94 % 0.3 cd/lm 1 White		20 <sup>3</sup> 0 90 <sup>4</sup> 70 60 <sup>4</sup> 70 70 70 70 70 70 70 70 70 70 70 70 70	



🕐 LUMILI	EDS	90* 90*
	LUXEON V	
FWHM / FWTM	125.0 + 123.0° / 151.0 + 145.0°	73* 77*
Efficiency	94 %	100
Peak intensity	0.3 cd/lm	60* ( ) 60*
LEDs/each optic	1	
Light colour	White	45*
Required componen	its:	
		340
		15 <sup>5</sup> 15 <sup>6</sup> 15 <sup>6</sup> 30 <sup>*</sup>
	NUS	90* 90*
LED	SST-10-B130	
FWHM / FWTM	126.0° / 147.0°	73* 77*
Efficiency	97 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	Deep Red	45'
Required componen		
		$\times$
		400
		30 15 <sup>5</sup> <u>9</u> % 15 <sup>*</sup>
MST Your solution	ons	90* 90*
NST Your solution	RecLED 122x50mm 1900lm 730 2x4 Opt G1	50° 50°
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	91 <sup>*</sup> 92 <sup>*</sup>
LED FWHM / FWTM	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric	90° 90° 73° 72° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 %	90° 90° 73° 200 60° 6°
LED FWHM / FWTM Efficiency Peak intensity	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm	90* 99* 73* 209 50* 200 6* C*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White	99* 99* 73* 210 60* 60* 40* 00*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White	90* 90* 100 100 100 100 100 100 100 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White	91 <sup>*</sup> 91 <sup>*</sup> 92
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White	90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White tts:	99* 99* 100 100 100 100 100 100 100 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White tts: NVSW219D Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen <b>WICHIA</b> LED FWHM / FWTM Efficiency	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White tts: NVSW219D Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen LED FWHM / FWTM Efficiency Peak intensity	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White tts: NVSW219D Asymmetric 94 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen Efficiency Peak intensity LEDs/each optic	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White tts: NVSW219D Asymmetric 94 % 0.3 cd/lm 1	200 - 200 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White its: NVSW219D Asymmetric 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen Efficiency Peak intensity LEDs/each optic	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White its: NVSW219D Asymmetric 94 % 0.3 cd/lm 1 White	200 - 200 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White its: NVSW219D Asymmetric 94 % 0.3 cd/lm 1 White	200 - 200 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.4 cd/lm 1 White its: NVSW219D Asymmetric 94 % 0.3 cd/lm 1 White	200 - 200 -



<b>ØNICHI</b>	1	99 <sup>4</sup> 99 <sup>4</sup>
LED	NVSW219F	
FWHM / FWTM	123.0° / 143.0°	
Efficiency	97 %	54 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	4° 4°
Required compone	nts:	300
		30* 400 39* 39*
<b>ØNICHI</b>		
LED	NVSW319B	90°
EED FWHM / FWTM	125.0° / 144.0°	73*
Efficiency	98 %	
Peak intensity	0.3 cd/lm	est de la companya de
LEDs/each optic	1	
Light colour	White	
Required compone		
i ioqui ou compone		300
		$\times$ / $\setminus$ $\times$
		30* 30* 30*
<b>ØNICHI</b>		90°
LED	NVSW3x9A	
FWHM / FWTM	129.0 + 128.0° / 151.0 + 148.0°	
Efficiency	94 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	10 <sup>1</sup>
Required compone	nts:	30
		30*
LED	NVSxE21A	80* 90*
LED FWHM / FWTM	125.0° / 144.0°	734 782
Efficiency	94 %	
Peak intensity	94 % 0.4 cd/lm	63 <sup>4</sup> 66 <sup>4</sup>
	1	
LEDs/each optic	\M/bito	
Light colour	White ots:	
Light colour		300 - 50
Light colour		



OSRAM		
Opto Semiconductors	Duris S8	90* 90*
EED FWHM / FWTM	119.0° / 143.0°	75° 75°
Efficiency	94 %	100
Peak intensity	94 % 0.3 cd/lm	50*
-		
LEDs/each optic	1	200
Light colour	White	6°
Required component	nts:	
		310
		30* 15 <sup>2</sup> 0 <sup>6</sup> 15 <sup>8</sup> 30 <sup>4</sup>
OSRAM		
Opto Semiconductors	OSCONIQ P 3737 (3W version)	90* 90*
LED FWHM / FWTM	Asymmetric	75°
Efficiency	98 %	100
Peak intensity	90 % 0.4 cd/lm	.65*
LEDs/each optic	1	
Light colour	' White	
Required component		42, 42,
Required component	IIIS.	300
		$\times$ / $\times$
		400
		30 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>6</sup>
OSRAM		122 <sup>1</sup> 0 <sup>0</sup> 12 <sup>1</sup> 20
OSRAM Opto Semiconductors		98*
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	
Opto Semiconductors LED FWHM / FWTM	128.0 + 127.0° / 149.0 + 145.0°	25 <sup>4</sup> 0 <sup>4</sup> 10 <sup>4</sup> x <sup>2</sup>
opto Semiconductors LED FWHM / FWTM Efficiency	128.0 + 127.0° / 149.0 + 145.0° 94 %	20 12 <sup>4</sup> 0 <sup>4</sup> 12 <sup>4</sup> 0 90 <sup>5</sup> 90 <sup>4</sup> 73 <sup>4</sup> 200 90 <sup>4</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm	20 <u>10</u> <u>0</u> <u>10</u> <u>0</u> <u>10</u> <u>0</u> <u>10</u> <u>0</u> <u>10</u> <u>0</u> <u>10</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u></u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1	20 <u>10</u> <u>0</u> <u>10</u> <u>0</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u></u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White	20 <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White	20 <u>10</u> <u>0</u> <u>10</u> <u>0</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u></u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White	200 200 200 60' 200 60' 200 60' 200 60' 60' 60' 60' 60' 60' 60' 6
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White	200 200 200 200 200 200 200 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componed	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component OSRAM Opto Semiconductors LED	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component OSRAM Opto Semiconductors LED FWHM / FWTM	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White nts: OSLON Square PC 122.0° / 154.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White nts: OSLON Square PC 122.0° / 154.0° 94 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White nts: OSLON Square PC 122.0° / 154.0° 94 % 0.3 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White nts: OSLON Square PC 122.0° / 154.0° 94 % 0.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White nts: OSLON Square PC 122.0° / 154.0° 94 % 0.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White nts: OSLON Square PC 122.0° / 154.0° 94 % 0.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	128.0 + 127.0° / 149.0 + 145.0° 94 % 0.4 cd/lm 1 White nts: OSLON Square PC 122.0° / 154.0° 94 % 0.3 cd/lm 1 White	



PHILIF	DS	50°
LED	Fortimo FastFlex LED 2x8 DA G4	
FWHM / FWTM	125.0° / 145.0°	75°
Efficiency	94 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	200
Light colour	White	45* 45
Required compone	ents:	
		$\times$
		400
		20* 15 <sup>3</sup> 0* 15* 30'
PHILIF	DS	
LED	Fortimo FastFlex LED 2x8 DA G4+	
FWHM / FWTM	127.0° / 148.0°	730 750
Efficiency	98 %	
Peak intensity	0.3 cd/lm	60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	
Required compone		
		300
		30° 400 30° 15°
PHILIF		
	<b>'</b> 5	90* 90*
LED	Fortimo FastFlex LED 2x8 DA G5	90°
LED		25 <sup>4</sup> 52
	Fortimo FastFlex LED 2x8 DA G5	92 <sup>4</sup> 92 73 <sup>6</sup> 50
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0°	92* 92 23* 200 63* 60
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 %	92 <sup>4</sup> 25 <sup>3</sup> 61 <sup>4</sup> 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm	20 <sup>4</sup> 20 20 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White ents:	24
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White ents: Fortimo FastFlex LED 2x8 DAX G4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White ents: Fortimo FastFlex LED 2x8 DAX G4 131.0° / 154.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White ents: Fortimo FastFlex LED 2x8 DAX G4 131.0° / 154.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White ents: Fortimo FastFlex LED 2x8 DAX G4 131.0° / 154.0° 94 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White ents: S Fortimo FastFlex LED 2x8 DAX G4 131.0° / 154.0° 94 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White ents: S Fortimo FastFlex LED 2x8 DAX G4 131.0° / 154.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White ents: S Fortimo FastFlex LED 2x8 DAX G4 131.0° / 154.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White ents: S Fortimo FastFlex LED 2x8 DAX G4 131.0° / 154.0° 94 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIC EDF FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G5 122.0° / 142.0° 98 % 0.4 cd/lm 1 White ents: S Fortimo FastFlex LED 2x8 DAX G4 131.0° / 154.0° 94 % 0.3 cd/lm 1 White	



SAMSU	JNG	90*
LED	HiLOM RC12 Z (LH181B)	
FWHM / FWTM	120.0° / 138.0°	75°
Efficiency	99 %	
Peak intensity	0.4 cd/lm	50°
LEDs/each optic	1	
Light colour	White	<b>5</b>
Required compone	nts:	
0 0 0 0 0 0		13 <sup>5</sup> 7 <sup>0</sup> 15 <sup>5</sup>
SAMSI	JNG	90*
LED	HiLOM RH12 Z (LH351C)	
FWHM / FWTM	121.0° / 139.0°	75°
Efficiency	97 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required compone	nts:	
		460
0 0 0 0 0 0		239 <sup>5</sup> 0 <sup>6</sup> 10 <sup>4</sup>
SAMSI	JNG	90*
LED	HiLOM RH16 (LH351C)	
FWHM / FWTM	121.0° / 139.0°	750
Efficiency	94 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required compone	nts:	300
		400
		400
<u>слвасі</u>		40 30* <u>15</u> <sup>5</sup> 0* <u>15</u> <sup>5</sup>
SAMSI	JNG	40 30° 15 <sup>5</sup> 0° 25°
LED	HiLOM RM12 Z (LH502C)	
SAMSU LED FWHM / FWTM	HiLOM RM12 Z (LH502C) 120.0° / 141.0°	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency	HiLOM RM12 Z (LH502C) 120.0° / 141.0° 98 %	
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM12 Z (LH502C) 120.0° / 141.0° 98 % 0.3 cd/lm	200 - 200 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM12 Z (LH502C) 120.0° / 141.0° 98 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 120.0° / 141.0° 98 % 0.3 cd/lm 1 White	40 30 <sup>4</sup> 30 <sup>4</sup> 30 <sup>4</sup> 30 <sup>4</sup> 40 40 40 40 40 40 40 40 40 40
LED	HiLOM RM12 Z (LH502C) 120.0° / 141.0° 98 % 0.3 cd/lm 1 White	40 30* 15 <sup>5</sup> 0* 15* 90* 50 60* 209
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 120.0° / 141.0° 98 % 0.3 cd/lm 1 White	40 30 <sup>2</sup> 15 <sup>3</sup> 0 <sup>2</sup> 35 <sup>2</sup> 50 <sup>3</sup> 100 50 <sup>3</sup> 200 50 <sup>3</sup> 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 Z (LH502C) 120.0° / 141.0° 98 % 0.3 cd/lm 1 White	40 30 <sup>2</sup> 32 <sup>3</sup> 30 <sup>4</sup> 32 <sup>3</sup> 50 <sup>4</sup> 50 <sup>4</sup> 50 <sup>6</sup> 50 <sup>6</sup>



SAMSI	JNG		90*	
LED	HiLOM RM16 Z (LH502C)			
FWHM / FWTM	120.0° / 141.0°		.75°	$\leftarrow$ $\rightarrow$ $\rightarrow$ $\rightarrow$
Efficiency	99 %			100
Peak intensity	0.3 cd/lm		-60 <sup>4</sup>	
LEDs/each optic	1			
Light colour	White		45*	
Required compone	ents:			
				300
			30*	40
сллс				133 00 15*
SVWSI			90*	
LED	HiLOM RM8 Z (LH502C)			
FWHM / FWTM	Asymmetric		25*	
Efficiency	99 %		.60*	
Peak intensity	0.3 cd/lm			
LEDs/each optic	1			200
Light colour	White		45*	
Required compone	ints:			
				300
			30*	135 500 15*
SAMS	ING			NY
LED	LH351B		90*	
FWHM / FWTM	126.0° / 149.0°		75%	
Efficiency	94 %			100
Peak intensity			. 50*	
r car intensity				
	0.3 cd/lm 1			200
LEDs/each optic	1			20
LEDs/each optic Light colour	1 White		-65*	
LEDs/each optic Light colour	1 White		÷	20
LEDs/each optic Light colour	1 White		40	50
LEDs/each optic Light colour	1 White			20
LEDs/each optic Light colour Required compone	1 White ents:			200 200 200 200 200 200 200 200 200 200
LEDs/each optic Light colour Required compone	1 White ents:			500 500 500 600 55 <sup>1</sup> 0 <sup>1</sup> 15 <sup>2</sup>
LEDs/each optic Light colour Required compone	1 White ents:		497 	200
LEDs/each optic Light colour Required compone	1 White ents: UNG LH351C		457   	
LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM	1 White ents: UNG LH351C 123.0° / 144.0°		45 197 197 197	260 260 200 200 200
LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency	1 White ents: UNC LH351C 123.0° / 144.0° 94 %		45 147 147 147 147 147 147 147 147 147 147	
LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity	1 White ents: UNG LH351C 123.0° / 144.0°		-67 247 257 257 257 257 257 257 257 257	20 20 20 0 0 0 0 0 0 0 0 0 0 0 0 0
LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White ents: UNG LH351C 123.0° / 144.0° 94 % 0.4 cd/lm 1		49 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20	
LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ents: UNG LH351C 123.0° / 144.0° 94 % 0.4 cd/lm 1 White		49 29 29 20 40 40 40 40 40 40 40 40 40 40 40 40 40	
LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White ents: UNG LH351C 123.0° / 144.0° 94 % 0.4 cd/lm 1 White		- 47 - 47 - 47 - 47	
LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ents: UNG LH351C 123.0° / 144.0° 94 % 0.4 cd/lm 1 White		- 45° - 45° - 45°	
LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ents: UNG LH351C 123.0° / 144.0° 94 % 0.4 cd/lm 1 White		- 47 - 47 - 47 - 47 - 47 - 47 - 47 - 47	



SAMSL	NG	90* 90*
LED	LH508A	
FWHM / FWTM	122.0° / 144.0 + 143.0°	78 78
Efficiency	94 %	
Peak intensity	0.3 cd/lm	eor de la companya de
LEDs/each optic	1	
Light colour	White	45°
Required compone	its:	
		300
		$\times$ / $\mid$ $\setminus$ $\times$
		(30° 400 30° 30° 15°
		90* 90
LED	LED-Pa-L15c2W11c2-xxx-C050-01	
FWHM / FWTM	123.0° / 142.0°	75° 76°
Efficiency	98 %	- 100
Peak intensity	0.4 cd/lm	50" 60"
LEDs/each optic	1	20
Light colour	White	45' 55'
Required compone		
		400
		30° 15° 30°
SEOUL SEMICONDUCTOR		30* 90*
LED	Z5M1/Z5M2	
FWHM / FWTM	122.0° / 149.0°	73°
Efficiency	94 %	200
Efficiency Peak intensity	94 %	50° (0°)
Peak intensity		200 - 64 200 - 64
Peak intensity LEDs/each optic	94 % 0.4 cd/lm	500
Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1 White	50 6 <sup>1</sup> 6 <sup>1</sup> 70 6 <sup>1</sup>
Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1 White	50 65 67 30
Peak intensity LEDs/each optic	94 % 0.4 cd/lm 1 White	50 65 67 20 67 90 67
Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1 White	500 60° 60° 60° 60° 60°
Peak intensity LEDs/each optic Light colour Required compone	94 % 0.4 cd/lm 1 White	200 60 <sup>+</sup> 200 60 <sup>+</sup> 200 60 <sup>+</sup> 200 60 <sup>+</sup> 200 60 <sup>+</sup> 200 60 <sup>+</sup> 200 60 <sup>+</sup> 200 60 <sup>+</sup> 60 <sup>+</sup>
Peak intensity LEDs/each optic Light colour Required compone	94 % 0.4 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone	94 % 0.4 cd/lm 1 White its:	
Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED	94 % 0.4 cd/lm 1 White tts: Z5M3	20 50 50 50 50 50 50 50 50 50 5
Peak intensity LEDs/each optic Light colour Required compone seoul semiconductor LED FWHM / FWTM	94 % 0.4 cd/lm 1 White its: Z5M3 Asymmetric	
Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency	94 % 0.4 cd/lm 1 White its: Z5M3 Asymmetric 94 %	
Peak intensity LEDs/each optic Light colour Required compone seous semiconoucror LED FWHM / FWTM Efficiency Peak intensity	94 % 0.4 cd/lm 1 White tts: Z5M3 Asymmetric 94 % 0.3 cd/lm	
Peak intensity LEDs/each optic Light colour Required compone 55000 SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.4 cd/lm 1 White tts: Z5M3 Asymmetric 94 % 0.3 cd/lm 1	50 <sup>4</sup> 500
Peak intensity LEDs/each optic Light colour Required compone SEQUISENCONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1 White tts: Z5M3 Asymmetric 94 % 0.3 cd/lm 1 White	60 <sup>4</sup> 60 <sup>4</sup>
Peak intensity LEDs/each optic Light colour Required compone 55000 SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.4 cd/lm 1 White tts: Z5M3 Asymmetric 94 % 0.3 cd/lm 1 White	50° 60°
Peak intensity LEDs/each optic Light colour Required compone SEQUISENCONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1 White tts: Z5M3 Asymmetric 94 % 0.3 cd/lm 1 White	50° 60°
Peak intensity LEDs/each optic Light colour Required compone SEQUESTIC SECTION SEQUESTIC SECTION SECTION SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.4 cd/lm 1 White tts: Z5M3 Asymmetric 94 % 0.3 cd/lm 1 White	50 <sup>4</sup> 500



SEOUL		
	75114	90* 90*
	Z5M4	7.50 7.50
FWHM / FWTM	Asymmetric	100
Efficiency	97 % 0.4 cd/lm	50° 60°
Peak intensity		
LEDs/each optic	1	
Light colour Required componer	White	45°
Required component	115.	
		400
		$\times$ / $\land$ $\times$
		30* <u>15</u> <sup>5</sup> <u>0</u> <sup>6</sup> <u>15</u> <sup>4</sup> 30 <sup>4</sup>
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z8Y22	210
FWHM / FWTM	127.0 + 124.0° / 146.0 + 144.0°	
Efficiency	94 %	50*
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 43°
Required componer	nts:	30
		400
		30° 15° 0° 15° 30°
TOSHIBA		
Leading Innovation >>>		50°
Leading Innovation »» LED	TL1L3	90° - 90°
Leading Innovation »» LED FWHM / FWTM	118.0° / 154.0°	29°*
Leading Innovation »» LED FWHM / FWTM Efficiency	118.0° / 154.0° 94 %	99 <sup>3</sup> 99 99 99 99 99 99 99 99 99 99 99 99 99
Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity	118.0° / 154.0° 94 % 0.3 cd/lm	
Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	118.0° / 154.0° 94 % 0.3 cd/lm 1	
Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	118.0° / 154.0° 94 % 0.3 cd/lm 1 White	90° 90° 75° 75° 60° 60° 60° 60°
Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	118.0° / 154.0° 94 % 0.3 cd/lm 1 White	99 <sup>4</sup> 99 80 <sup>4</sup> 80 <sup></sup>
Leading Innovation >> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	118.0° / 154.0° 94 % 0.3 cd/lm 1 White	99° 99° 99° 99° 99° 99° 99° 99° 99° 99°
Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	118.0° / 154.0° 94 % 0.3 cd/lm 1 White	9x <sup>3</sup> 75 6x <sup>3</sup> 6x <sup>4</sup> 70 70 70 6x 70 6x 70 70 70 70 70 70 70 70 70 70
Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	118.0° / 154.0° 94 % 0.3 cd/lm 1 White	
Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	118.0° / 154.0° 94 % 0.3 cd/lm 1 White	
Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	118.0° / 154.0° 94 % 0.3 cd/lm 1 White nts:	
Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen TOSHIBA Leading Innovation »> LED	118.0° / 154.0° 94 % 0.3 cd/lm 1 White nts:	
Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TOSHIBA Leading Innovation >>> LED FWHM / FWTM	118.0° / 154.0° 94 % 0.3 cd/lm 1 White nts: TL1L4 119.0° / 146.0°	
Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency	118.0° / 154.0° 94 % 0.3 cd/lm 1 White nts: TL1L4 119.0° / 146.0° 91 %	
Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component TOSHIBA Leading Innovation >>> LED FWHM / FWTM Efficiency Peak intensity	118.0° / 154.0° 94 % 0.3 cd/lm 1 White nts: TL1L4 119.0° / 146.0° 91 % 0.4 cd/lm	
Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component <b>TOSHIBA</b> Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	118.0° / 154.0° 94 % 0.3 cd/lm 1 White nts: TL1L4 119.0° / 146.0° 91 % 0.4 cd/lm 1	
Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component <b>TOSHIBA</b> Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	118.0° / 154.0° 94 % 0.3 cd/lm 1 White nts: TL1L4 119.0° / 146.0° 91 % 0.4 cd/lm 1 White	
Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component <b>TOSHIBA</b> Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	118.0° / 154.0° 94 % 0.3 cd/lm 1 White nts: TL1L4 119.0° / 146.0° 91 % 0.4 cd/lm 1 White	
Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component <b>TOSHIBA</b> Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	118.0° / 154.0° 94 % 0.3 cd/lm 1 White nts: TL1L4 119.0° / 146.0° 91 % 0.4 cd/lm 1 White	
Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component <b>TOSHIBA</b> Leading Innovation »> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	118.0° / 154.0° 94 % 0.3 cd/lm 1 White nts: TL1L4 119.0° / 146.0° 91 % 0.4 cd/lm 1 White	



# TRIDONIC

LED
FWHM / FWTM
Efficiency
Peak intensity
LEDs/each optic
Light colour
Required component

RLE 2x4 2000lm HP EXC2 OTD 128.0° / 147.0° 94 % 0.4 cd/lm 1 White

TRIDON	IIC		90*
LED	RLE 2x8 4000lm HP EXC2 OTD		
FWHM / FWTM	128.0° / 147.0°	73	100
Efficiency	94 %	50*	
Peak intensity	0.4 cd/lm		
LEDs/each optic	1		
Light colour	White		67
Required compone		615	20 600 13 <sup>5</sup> 0 <sup>4</sup> 13 <sup>6</sup> 30 <sup>4</sup>
TRIDOM	liC	90*	50*
LED	RLE G1 49x121mm 2000lm xxx EXC OTD		
FWHM / FWTM	119.0 + 117.0° / 147.0 + 146.0°	73%	200
Efficiency	94 %		
Peak intensity	0.4 cd/lm	50° (()	
LEDs/each optic	1		
Light colour	White	45*	45+
Required compone			24 <sup>2</sup> 20 <sup>30</sup> 13 <sup>4</sup> 30 <sup>4</sup>
TRIDOM	liC	90*	90*
LED	RLE G1 49x133mm 2000lm xxx EXC OTD		
FWHM / FWTM	119.0 + 117.0° / 147.0 + 146.0°	75%	75°
Efficiency	94 %		
Peak intensity	0.4 cd/lm	50 ((~	400
LEDs/each optic	1		
Light colour	White	45*	
Required compone	nts:	24-	00 00 10 <sup>2</sup> 10 <sup>2</sup> 10 <sup>2</sup> 10 <sup>2</sup> 10 <sup>2</sup>



TRIDON	liC	82.
LED	RLE G1 49x223mm 4000lm xxx EXC OTD	
FWHM / FWTM	119.0 + 117.0° / 147.0 + 146.0°	75%
Efficiency	94 %	
Peak intensity	0.4 cd/lm	50 <sup>*</sup>
LEDs/each optic	1	
Light colour	White	45* 6*
Required compone	nts:	80
		50° 1000 25° 50°
TRIDOM	1IC	90*
LED	RLE G1 49x245mm 4000lm xxx EXC OTD	
FWHM / FWTM	119.0 + 117.0° / 147.0 + 146.0°	75* 100
Efficiency	94 %	
Peak intensity	0.4 cd/lm	<sup>56*</sup>
LEDs/each optic	1	
Light colour	White	45° 6°
Required compone	nts:	20 20 20 20 20 20 20 20 20 20



	MHB-A/B	80 <sup>4</sup>
FWHM / FWTM	мпв-жв 117.0 + 116.0° / 140.0°	75° 75°
Efficiency	94 %	100
Peak intensity	94 % 0.3 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	' White	200
Required components:	white	92°
required components.		
		~~~~
		$\times$ / $\times$
		30* 15* 20* 30*
		90* 90*
LED	XHP35 HD	
FWHM / FWTM	Asymmetric	75° 75°
Efficiency	96 %	
Peak intensity	0.3 cd/lm	200° ()
LEDs/each optic	1	
Light colour	White	et
Required components:		
		30* 15 <sup>3</sup> 0 <sup>6</sup> 15 <sup>4</sup> 30 <sup>4</sup>
		90* 90*
LED	XP-G2 HE	
FWHM / FWTM	126.0° / 138.0°	75* 75*
Efficiency	95 %	100
Peak intensity	0.3 cd/lm	60* 60*
LEDs/each optic	1	200
Light colour	White	15° 6°.
Required components:		300
		30* 30*
		660 391* 22 <sup>5</sup> 0 <sup>4</sup> 21 <sup>5</sup> 30 <sup>4</sup>
	YP.G3	90 <sup>4</sup> 20 <sup>5</sup> 0 <sup>4</sup> 20 <sup>5</sup> 30 <sup>5</sup>
LED	XP-G3	90 <sup>4</sup> 20 <sup>5</sup> 0 <sup>4</sup> 10 <sup>4</sup> 30 <sup>4</sup>
LED FWHM / FWTM	126.0° / 138.0°	20 <sup>4</sup> 25 <sup>5</sup> 0 <sup>4</sup> 25 <sup>4</sup> 30 <sup>4</sup>
LED FWHM / FWTM Efficiency	126.0° / 138.0° 86 %	20 <sup>4</sup> 25 <sup>5</sup> 0 <sup>4</sup> 25 <sup>4</sup> 20 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity	126.0° / 138.0° 86 % 0.3 cd/lm	20* 25 <sup>5</sup> 0* 15* 30* 20* 50 20* 50 60* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	126.0° / 138.0° 86 % 0.3 cd/lm 1	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	126.0° / 138.0° 86 % 0.3 cd/lm	20 <sup>4</sup> 20 <sup>3</sup> 20 <sup>3</sup> 20 <sup>4</sup> 30 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	126.0° / 138.0° 86 % 0.3 cd/lm 1 White	20 <sup>4</sup> 20 <sup>5</sup> 20 <sup>4</sup> 20 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	126.0° / 138.0° 86 % 0.3 cd/lm 1 White	20° 20° 20° 20° 20° 0° 20° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 20° 0° 0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	126.0° / 138.0° 86 % 0.3 cd/lm 1 White	20° 0° 13° 30° 20° 13° 30° 20° 0° 13° 20° 0° 13° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20



UMILEI	DS	90° 90
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	118.0° / 131.0°	73* 100 75
Efficiency	94 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	5° 6
Required components:		- 30
		400
		30* 30
<i>M</i>		153 360 15*
	35	90* 90
LED	LUXEON 3030 2D (Square LES)	
FWHM / FWTM	119.0° / 133.0°	75
Efficiency	94 %	50° 50
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45
Required components:		
		400
		30* 15* 30
	5	
LED	LUXEON 5050 Round LES	90 <sup>4</sup> 99
FWHM / FWTM	117.0° / 132.0°	73.6
Efficiency	89 %	100
Peak intensity		
	0.3 cd/lm	60 <sup>5</sup> / / / 60
	0.3 cd/lm 1	en e
LEDs/each optic	1	
LEDs/each optic Light colour		67 - 20 - 6
LEDs/each optic Light colour Required components:	1 White	
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour Required components:	1 White	
LEDs/each optic Light colour Required components: Protective plat	1 White e, glass	
LEDs/each optic Light colour Required components:	1 White e, glass	
LEDs/each optic Light colour Required components: Protective plat	1 White e, glass	
LEDs/each optic Light colour Required components: Protective plat	1 White e, glass DS LUXEON 5050 Square LES 118.0° / 134.0°	
LEDs/each optic Light colour Required components: Protective plat <b>CONTINUES</b> LED FWHM / FWTM Efficiency	1 White e, glass DS LUXEON 5050 Square LES 118.0° / 134.0° 96 %	
LEDs/each optic Light colour Required components: Protective plat <b>Why LUMILE</b> ED FWHM / FWTM Efficiency Peak intensity	1 White e, glass <b>DS</b> LUXEON 5050 Square LES 118.0° / 134.0° 96 % 0.3 cd/lm	
LEDs/each optic Light colour Required components: Protective plat	1 White e, glass <b>S</b> LUXEON 5050 Square LES 118.0° / 134.0° 96 % 0.3 cd/lm 1	
LEDs/each optic Light colour Required components: Protective plat <b>WIM / EUNILEI</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White e, glass <b>DS</b> LUXEON 5050 Square LES 118.0° / 134.0° 96 % 0.3 cd/lm	
LEDs/each optic Light colour Required components: Protective plat	1 White e, glass <b>S</b> LUXEON 5050 Square LES 118.0° / 134.0° 96 % 0.3 cd/lm 1	
LEDs/each optic Light colour Required components: Protective plat <b>WIM / EUNILEI</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White e, glass <b>S</b> LUXEON 5050 Square LES 118.0° / 134.0° 96 % 0.3 cd/lm 1	
LEDs/each optic Light colour Required components: Protective plat	1 White e, glass <b>S</b> LUXEON 5050 Square LES 118.0° / 134.0° 96 % 0.3 cd/lm 1	



🕙 LUMILED	)S	967
LED FWHM / FWTM Efficiency	LUXEON 5050 Square LES 114.0° / 132.0° 89 %	20
Peak intensity	0.3 cd/lm	
LEDs/each optic	1 White	
Light colour Required components:	white	
Protective plate	a, glass	
		30° 15°
MICHIΛ		90*
	NFMW48xA	75
FWHM / FWTM Efficiency	120.0° / 134.0° 96 %	
Peak intensity	90 % 0.3 cd/lm	.66*
LEDs/each optic	1	
Light colour	White	200
Required components:		
··· ·		
		30* 440 15 <sup>5</sup> 0 <sup>6</sup> 15*
<b>ΜΝΙCΗΙΛ</b>		90*
LED	NV4WB35AM	
FWHM / FWTM	120.0° / 136.0°	750
Efficiency	96 %	20 <sup>-</sup>
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	651
Required components:		
		20 <sup>4</sup> 10 <sup>4</sup> 10 <sup>4</sup>
MICHIA		20 <sup>1</sup> 0 <sup>2</sup> 30 <sup>2</sup>
	NVSW319B	20 <sup>4</sup> 00 15 <sup>4</sup>
LED	NVSW319B 126.0° / 134.0°	22 <sup>4</sup> 29 <sup>4</sup> 29 <sup>4</sup>
LED FWHM / FWTM	NVSW319B 126.0° / 134.0° 88 %	
LED FWHM / FWTM Efficiency	126.0° / 134.0°	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	126.0° / 134.0° 88 %	
LED FWHM / FWTM Efficiency Peak intensity	126.0° / 134.0° 88 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	126.0° / 134.0° 88 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	126.0° / 134.0° 88 % 0.3 cd/lm 1 White	



<b>ΜΝΙCΗΙΛ</b>		90*
LED	NVSW519A	
FWHM / FWTM	125.0° / 136.0°	730 780
Efficiency	89 %	100
Peak intensity	0.3 cd/lm	60 <sup>+</sup> ( ) 60 <sup>+</sup>
LEDs/each optic	1	
Light colour	White	45*
Required components:		
Protective plate	e, glass	
		30° 13 <sup>5</sup> 15° 30°
<b>Μ</b> ΝΙCΗΙΛ		90* 90*
LED	NVSW519A	
FWHM / FWTM	126.0° / 136.0°	736 782
Efficiency	93 %	100
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	51 654
Required components:		
		300
		X / X
		30* 400 30*
<b>Μ</b> ΝΙCΗΙΛ		
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	122.0° / 132.0°	750 780
Efficiency	94 %	
Peak intensity	0.4 cd/lm	607
LEDs/each optic	1	
Light colour	White	5. 5 <sup>1</sup>
Required components:		N/T + T/
		X
		30° 390 39° 39°
OSRAM		
		90° 90°
LED FWHM / FWTM	PrevaLED Brick HP 2x8 122.0° / 136.0°	The the second s
Efficiency	92 %	100
Peak intensity	92 % 0.4 cd/lm	50*
LEDs/each optic	1	the start
Light colour	White	
Required components:		
. tequilou componento.		X   X
		400



OSRAM		
Opto Semiconductors	OSCONIQ P 3030	90* 90*
LED FWHM / FWTM	125.0° / 141.0°	73.0 75.0
Efficiency	96 %	100
Peak intensity	90 % 0.4 cd/lm	60°
LEDs/each optic Light colour	1 White	
Required components:	White	-65°
		$\times$
		400
		$\times$
		30* <u>15</u> <sup>3</sup> <u>50</u> <sup>2</sup> <u>15</u> * <u>30</u> *
OSRAM		
Opto Semiconductors		90* 90*
LED FWHM / FWTM	OSCONIQ P 3737 (2W version) 114.0° / 134.0°	73* 75*
Efficiency	93 %	500
Peak intensity	93 // 0.4 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	
Required components:	White	
		400
		$\times$ / $\times$ $\times$
		30* <u>15</u> 2 0° <u>1</u> 5 <sup>2</sup> 30 <sup>2</sup>
OSRAM		
Opto Semiconductors	OSI ON Square CSSRM2/CSSRM3	8.
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	92 <sup>1</sup> 23 <sup>1</sup> 22 <sup>1</sup>
Opto Semiconductors LED FWHM / FWTM	122.0° / 134.0°	92 73 10
opto Semiconductors LED FWHM / FWTM Efficiency	122.0° / 134.0° 89 %	92* 730 60*
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	122.0° / 134.0° 89 % 0.3 cd/lm	9° 70 60° 500 500
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	122.0° / 134.0° 89 % 0.3 cd/lm 1	99 99 100 100 100 100 100 007 007
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	122.0° / 134.0° 89 % 0.3 cd/lm	92 73 60 67 50 50 67
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	122.0° / 134.0° 89 % 0.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	122.0° / 134.0° 89 % 0.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	122.0° / 134.0° 89 % 0.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	122.0° / 134.0° 89 % 0.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	122.0° / 134.0° 89 % 0.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN	122.0° / 134.0° 89 % 0.3 cd/lm 1 White a, glass	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED	122.0° / 134.0° 89 % 0.3 cd/lm 1 White a, glass HiLOM RH12 Z (LH351C)	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANNSUN LED FWHM / FWTM	122.0° / 134.0° 89 % 0.3 cd/lm 1 White e, glass HILOM RH12 Z (LH351C) 121.0° / 138.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency	122.0° / 134.0° 89 % 0.3 cd/lm 1 White e, glass HiLOM RH12 Z (LH351C) 121.0° / 138.0° 87 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANNSUN LED FWHM / FWTM Efficiency Peak intensity	122.0° / 134.0° 89 % 0.3 cd/lm 1 White e, glass HILOM RH12 Z (LH351C) 121.0° / 138.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	122.0° / 134.0° 89 % 0.3 cd/lm 1 White e, glass HILOM RH12 Z (LH351C) 121.0° / 138.0° 87 % 0.3 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANNSUN LED FWHM / FWTM Efficiency Peak intensity	122.0° / 134.0° 89 % 0.3 cd/lm 1 White e, glass HILOM RH12 Z (LH351C) 121.0° / 138.0° 87 % 0.3 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	122.0° / 134.0° 89 % 0.3 cd/lm 1 White e, glass HiLOM RH12 Z (LH351C) 121.0° / 138.0° 87 % 0.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	122.0° / 134.0° 89 % 0.3 cd/lm 1 White e, glass HiLOM RH12 Z (LH351C) 121.0° / 138.0° 87 % 0.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	122.0° / 134.0° 89 % 0.3 cd/lm 1 White e, glass HiLOM RH12 Z (LH351C) 121.0° / 138.0° 87 % 0.3 cd/lm 1 White	



SAMSU	NG	214
LED	LH351B	
FWHM / FWTM	118.0° / 130.0°	78.
Efficiency	89 %	
Peak intensity	0.3 cd/lm	Soft
LEDs/each optic	1	
Light colour	White	57
Required components:		
Protective pla	e, glass	
SAMSU	NG	21
LED	LH351D	
FWHM / FWTM	120.0° / 134.0°	28
Efficiency	95 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	47
Required components:		
		24* 40
SEOUL		115 04 115-
SEOUL SEMICONDUCTOR		30*
LED	MJT 5050	
FWHM / FWTM	118.0° / 132.0°	20
Efficiency	96 %	
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		***



## PRODUCT DATASHEET C13499\_STRADA-2X2-CY

### **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.

### MATERIALS:

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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

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