

# PRODUCT DATASHEET C12360\_STRADA-2X2-DNW

# STRADA-2X2-DNW

Soft	wide	beam	with	good	illuminance
unifo	rmity				

### **SPECIFICATION:**

Dimensions	50.0 x 50.0 mm
Height	11.3 mm
Fastening	glue, pin, screw
ROHS compliant	yes 🛈



### **MATERIALS:**

Component	Туре	Material	Colour	Finish
STRADA-2X2-DNW	Multi-lens	PMMA	clear	

### **ORDERING INFORMATION:**

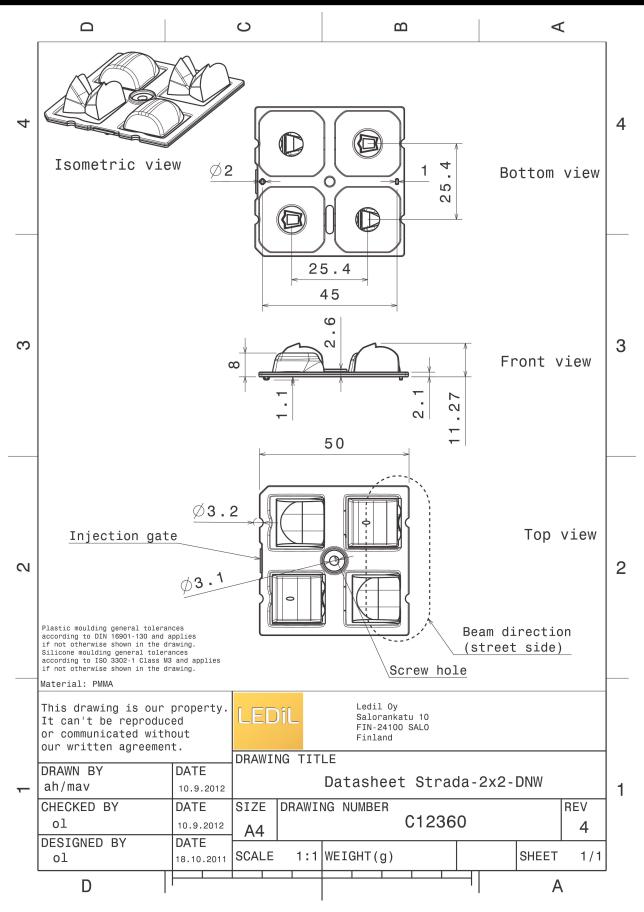
#### Component

C12360\_STRADA-2X2-DNW » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
800	160	160	8.2



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



		50° 50°
LED	QUICK FLUX XTP 2x4 xxx LS G5	
FWHM / FWTM	Asymmetric	25*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	. 50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	42° 200 4°
Required componer	its:	
		400
		$\times$ / $\land$ $\times$
		15° 15° 30°
		50° 50'
LED	QUICK FLUX XTP 2x6 xxx LS G5	
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60°
LEDs/each optic	1	
Light colour	White	49° 300 49°
Required componer	its:	
		400
		$\times$
		30° 500 30°
		15 <sup>2</sup> 0 <sup>8</sup> 13 <sup>8</sup>
		90* 90*
LED	XM-L	
FWHM / FWTM	Asymmetric	73°
Efficiency	93 %	50 <sup>4</sup>
Peak intensity	0.3 cd/lm	
LEDs/each optic	1	X - X0
Light colour	White	45° 45°
Required componer	its:	
		30° 15° 30°
CREE 🚖		50° 15° 0° 15° 30°
	2444.0	542 <u>124</u> 0 <sup>4</sup> 127 24 <sup>4</sup>
LED	XM-L2	
LED FWHM / FWTM	Asymmetric	90° 90°
LED FWHM / FWTM Efficiency	Asymmetric 94 %	90
LEDs LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.5 cd/lm	90
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	90
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1 White	
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	



		90* 90*
LED	XM-L3	
FWHM / FWTM	158.0 + 65.0° / 180.0 + 127.0°	259 751
Efficiency	96 %	
Peak intensity	0.5 cd/lm	. 60 <sup>4</sup> 60 <sup>4</sup> .
LEDs/each optic	1	
Light colour	White	30
Required compone		· C*
Required compone		400
		560
		30° 19 <sup>2</sup> 0° 19° 30°
CREE ≑		TXY YAN
LEDS		90* 90*
LED	XP-G	
FWHM / FWTM	Asymmetric	
Efficiency	93 %	60° 200 601
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	30
Light colour	White	e e
Required compone	nts:	40
		50° 600
		10 <sup>5</sup> 0 <sup>6</sup> 10 <sup>6</sup>
		90* 90*
LED	XP-G2	
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	50 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	300
Light colour	White	45* 45*
Required compone	nts:	460
		500
		600
		1 30° 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>6</sup> 30°
CREE ≑		
LED LED	XP-G3	90* 90*
LED FWHM / FWTM		732 732
Efficiency	Asymmetric 79 %	100
	79 % 0.5 cd/lm	604
Peak intensity LEDs/each optic	0.5 cd/im 1	
LEDs/each optic	1 White	
Required compone		45° 300 45°
	nts: A-2X2-SHD-BLK	$\times$
CITOT SIRAL		40
		$\times$
		30* <u>500</u> 15* 30*



		90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	75* 75
Efficiency	89 %	
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required componer		45° 3% 45°
	ias. A-2X2-SHD-WHT	
CH300_SHAD		460
		30° <u>560</u> 30° 30°
		80* 90*
LEDS	XP-G3	
EED FWHM / FWTM	Asymmetric	75*
Efficiency	95 %	
Peak intensity	0.5 cd/lm	63* 200 69*
LEDs/each optic	1	
LEDS/each optic	White	
		45* 400
Required componer	IIS.	X/T/X
		50° 15° 0° 15° 30°
CREE 🔶		
LEDS		90* 90*
LED	XP-L HD	77%
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60 <sup>4</sup> 60 <sup>4</sup>
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	42,
Required component	its:	400
		$\times$
		500
		30*
CREE ≑		
LEDS		90* 90*
	XP-L HI	75
FWHM / FWTM	Asymmetric	
Efficiency	94 %	50° 60°
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	5° 30 6°
Required componer	115:	400
		$\times$ / $\top$ / $\times$
		500
		30.
		15° 0° 15°



CREE -		
LED	XP-L2	
FWHM / FWTM	Asymmetric	75* 7**
Efficiency	94 %	
Peak intensity	0.4 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	-65°
Required compone	IS.	400
		$\times$ / T \ $\times$
		200
		30° 135 0° 15° 50°
		THY FFT
LED	XT-E	90° 90°
		750 780
FWHM / FWTM Efficiency	Asymmetric 93 %	
	93 % 0.3 cd/lm	60°
Peak intensity		
LEDs/each optic	1 White	X - 300 X
Light colour		·6* 6*
Required compone	IIS.	400
		200
		30* 13 <sup>4</sup> 9° 15 <sup>5</sup> 30*
LEDS		90* 90*
LED	XT-E HVW	73°
FWHM / FWTM	Asymmetric	
FWHM / FWTM Efficiency	Asymmetric %	2° 100 72 6° 20 60*
FWHM / FWTM Efficiency LEDs/each optic	Asymmetric % 1	20 100 100 60* 200 60*
FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric % 1 White	
FWHM / FWTM Efficiency LEDs/each optic	Asymmetric % 1 White	20 100 72 60° 60° 60° 60°
FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric % 1 White	20 50 60 60 60 60 7 60 7 60 7 60
FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric % 1 White	200
FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric % 1 White	
FWHM / FWTM Efficiency LEDs/each optic Light colour Required component	Asymmetric % 1 White hts:	30         20         00           61         20         00           62         20         00
FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer	Asymmetric % 1 White hts:	
FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer	Asymmetric % 1 White hts: EDS LUXEON MZ	
FWHM / FWTM Efficiency LEDs/each optic Light colour Required component Composition of the second sec	Asymmetric % 1 White hts: EDS LUXEON MZ Asymmetric	
FWHM / FWTM Efficiency LEDs/each optic Light colour Required component Composition Required component Composition Required component Composition Required component Composition Compositio	Asymmetric % 1 White hts: EDS LUXEON MZ Asymmetric 94 %	
FWHM / FWTM Efficiency LEDs/each optic Light colour Required component <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b>Composition</b> <b></b>	Asymmetric % 1 White hts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm	
FWHM / FWTM Efficiency LEDs/each optic Light colour Required component <b>Weak International Content</b> Efficiency Peak intensity LEDs/each optic	Asymmetric % 1 White hts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm 1	200
FWHM / FWTM Efficiency LEDs/each optic Light colour Required component Component Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric % 1 White hts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm 1 White	200
FWHM / FWTM Efficiency LEDs/each optic Light colour Required component <b>Weak International Content</b> Efficiency Peak intensity LEDs/each optic	Asymmetric % 1 White hts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm 1 White	200
FWHM / FWTM Efficiency LEDs/each optic Light colour Required component Component Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric % 1 White hts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm 1 White	
FWHM / FWTM Efficiency LEDs/each optic Light colour Required component Component Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric % 1 White hts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm 1 White	200
FWHM / FWTM Efficiency LEDs/each optic Light colour Required component Component Equired component Component Component Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric % 1 White hts: EDS LUXEON MZ Asymmetric 94 % 0.4 cd/lm 1 White	



COMIL	EDS	147	FTI
LED	LUXEON Q	90°	
FWHM / FWTM	Asymmetric	75%	
Efficiency	94 %		
Peak intensity	0.6 cd/lm	-60 <sup>4</sup> 200	60*
LEDs/each optic	1		
Light colour	u White	X / 30	+ X
Required compone		45*	55*
Required compone	10.	400	-+
			X
		500	-t V
		30* 13 <sup>5</sup> 0°	15* 30*
	EDS	90*	90*
LED	LUXEON Rebel ES		
FWHM / FWTM	Asymmetric	75°	780
Efficiency	93 %		
Peak intensity	0.3 cd/lm	60°	60*
LEDs/each optic	1	300	$+ \uparrow X$
Light colour	White	45*	45+
Required compone		400	TY
		600	- 1 2
		30° 15° 0°	15° 30°
UMIL	EDS	30* <u>152</u> 0*	-15 <sup>4</sup> - 30 <sup>4</sup>
	EDS LUXEON T	20° 155 of	
	LUXEON T	20* 0* 95* 77* (10)	
LED FWHM / FWTM		50° 122 0°	
LED FWHM / FWTM Efficiency	LUXEON T Asymmetric	30* 252 0* 99* 775 50 60* 200	140 - 140 -
LED FWHM / FWTM Efficiency Peak intensity	LUXEON T Asymmetric 93 %	20 <sup>2</sup> 20 <sup>2</sup> 0 <sup>2</sup>	140 - 140 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON T Asymmetric 93 % 0.6 cd/lm	20°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White	20 <sup>2</sup> 20 <sup>2</sup> 0 <sup>2</sup>	140 - 121 -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White	20° 20 20° 10 20° 10 10 10 10 10 10 10 10 10 10	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White	20* 23 <sup>2</sup> 0*	31 <sup>1</sup> 91 <sup>1</sup> 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White	20 <sup>2</sup> 20 <sup>2</sup> 0 <sup>2</sup>	14 14 14 14 14 14 14 14 14 14 14 14 14 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts:		19
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts:		9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts:		140 140 140 140 140 140 140 140 140 140
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts:		91 91 91 91 91 91 91 91 91 91 91 91 91 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White Its:		91 91 91 91 91 91 91 91 91 91 91 91 91 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts:		14 94 97 97 97 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White Its:		14 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts: EDS LUXEON TX Asymmetric 94 % 0.6 cd/lm 1		14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>COMPARENT</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts:		14 14 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts:		14 14 15 16 16 16 16 16 16 16 16 16 16 16 16 16
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>COMPARENT</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts:		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>COMPARENT</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON T Asymmetric 93 % 0.6 cd/lm 1 White nts:		91 91 91 91 91 91 91 91



🕐 LUMIL	.EDS	
LED	LUXEON V2	30
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	616 604
LEDs/each optic	1	
Light colour	White	5° 30 5°
Required compone		
		400
		× ***
		30° <u>13</u> <sup>5</sup> 0° 13° 30°
UMIL	.EDS	
LED	LUXEON Z ES	
FWHM / FWTM	Asymmetric	75° (100 - 78°
Efficiency	94 %	
Peak intensity	0.6 cd/lm	50° 50° 60°
LEDs/each optic	1	
Light colour	White	45* 300
Required compone		400
		$\times$
		500
		30* <u>13<sup>5</sup> 60</u> 13* 30*
MST Your solu	tions	90* 90*
MST Your solu		9 <sup>2</sup>
	RecLED 122x50mm 1900lm 730 2x4 Opt G1	94 <sup>4</sup> 97 35 <sup>4</sup> 107 702
LED		91 <sup>3</sup> 91 <sup>4</sup>
LED FWHM / FWTM	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric	91 <sup>4</sup> 91 <sup>4</sup> 23 <sup>3</sup> 100 61 <sup>4</sup> 200
LED FWHM / FWTM Efficiency	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 %	50° 50° 60°.
LED FWHM / FWTM Efficiency Peak intensity	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm	5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CONCENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.6 cd/lm 1 White ents: NVSW219F Asymmetric 94 % 0.6 cd/lm 1 White	



<b>ØNICHI</b> ∕	L		90* 90*
LED	NVSW319B		
FWHM / FWTM	Asymmetric		75* 100 - 75*
Efficiency	94 %		
Peak intensity	0.5 cd/lm		50 <sup>4</sup> 200 60 <sup>4</sup>
LEDs/each optic	1		
Light colour	White		45* 45*
Required compone			400
			X   X
			200
			(30° <u>660</u> 15° 30°)
ØNICHI∕	<b>k</b>		50°
LED	NVSW3x9A		
FWHM / FWTM	Asymmetric		100 75°
Efficiency	94 %		
Peak intensity	0.5 cd/lm	and the second se	
LEDs/each optic	1		X X X
Light colour	White		6° 6°
Required compone	nts:		400
			X / X
			300 00 00 300 300
LED	- NVSxE21A		90* 90*
FWHM / FWTM	Asymmetric		75* 100 75*
Efficiency	94 %		
Peak intensity	0.3 cd/lm		614 604 604
LEDs/each optic	1		
Light colour	White		
Required compone			400
			200
	-		130° 15° 30°
OSRAM			90* 90*
LED	PrevaLED Brick HP 2x8		
FWHM / FWTM	Asymmetric		75*
Efficiency	94 %		
Peak intensity	0.6 cd/lm		60* 20 60*
LEDs/each optic	1		
Light colour	White		43* 43*
Eight obloai			
Required compone			
			10



OSRAM		
Opto Semiconductors		90°
LED	OSLON Square CSSRM2/CSSRM3	254
FWHM / FWTM	Asymmetric	
Efficiency	94 %	61* 200 60*
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	X 300 X
Light colour	White	45°.
Required componer	nts:	400
		200
		30° 15° 50°
OSRAM		
Opto Semiconductors		90° 90°
LED	OSLON Square PC	
FWHM / FWTM	Asymmetric	500 × 7
Efficiency	93 %	50*
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 300 45*
Required componer	nts:	
		400
		30* <u>5%</u> 9* <u>35</u> 0* <u>15</u> * 30*
DLIID		
PHILIP		50°
LED	Fortimo FastFlex LED 2x8 DA G4	2 <sup>1</sup>
LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G4 Asymmetric	50° 50° 50°
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 %	50 <sup>1</sup> 7 <sup>2</sup> 60 <sup>1</sup> 60 <sup>1</sup>
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm	\$7 77 61 61 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1	20 20 65 7 90 65 65
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White	20 20 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer EQUIPMENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/m 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 % 0.6 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer EQUIPMENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Required componen ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 0.7 cd/lm 1 White hts: S Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 97 % 0.6 cd/lm 1 White	



PHILIF	<b>DS</b>	80*
LED	Fortimo FastFlex LED 2x8 DA G5	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	601
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	30
Light colour Required compone	White	-67
Required compone	ans.	400
		200
		30° 15° 0° 15°
PHILIF	DS	
		30°
LED	Fortimo FastFlex LED 2x8 DAX G4	750
FWHM / FWTM	Asymmetric	
Efficiency	94 %	50 <sup>4</sup> 200
LEDs/each optic	1	
Light colour	White	451
Required compone	ents:	400
		$\times$
		540
		30*
		15°
SAMSI	JNG	
		50-
LED		37
LED	HiLOM RC12 Z (LH181B) Asymmetric	24 100 Ba
LED FWHM / FWTM	HiLOM RC12 Z (LH181B)	3 <sup>20</sup>
LED FWHM / FWTM Efficiency	HiLOM RC12 Z (LH181B) Asymmetric	20 20 av
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1	20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White	42. 01. 22. 24. 10. 10. 10. 10. 10. 10. 10. 10. 10. 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White	6 <sup>3</sup> 20 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White	6 <sup>3</sup> 20 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White	6 <sup>3</sup> 20 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White	6 <sup>3</sup> 20 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White ents:	6° 6° 6° 60 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White ents:	6° 6° 6° 60 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White ents: UNG HiLOM RH12 Z (LH351C)	6° 6° 6° 60 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White ents:	6° 6° 6° 60 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White ents:	6° 6° 6° 60 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White ents: <b>UNCC</b> HiLOM RH12 Z (LH351C) Asymmetric 97 % 0.6 cd/lm	6° 6° 6° 60 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White ents: <b>UNCC</b> HiLOM RH12 Z (LH351C) Asymmetric 97 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White ents:	6° 6° 6° 60 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMS</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 97 % 0.5 cd/lm 1 White ents:	



SAMSI	JNG	904
LED	HiLOM RH16 (LH351C)	
FWHM / FWTM	Asymmetric	25*75
Efficiency	94 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	-6° 6
Required compone	ents:	400
		20
		30° 152 0° 107 30
<u> </u> <b>     S</b> M     S     I	ING	
LED	HiLOM RM12 Z (LH502C)	90* 90
FWHM / FWTM	Asymmetric	75* 761
Efficiency	96 %	500
Peak intensity	0.4 cd/lm	ent for the second s
LEDs/each optic	1	
Light colour	White	65° 65
Required compone	ents:	**
		400
		30* 30
SAMSI	ING	
		90° 90'
LED	HiLOM RM16 Z (LH502C)	54 <sup>3</sup>
LED FWHM / FWTM	HiLOM RM16 Z (LH502C) Asymmetric	90* 99 75
LED FWHM / FWTM Efficiency	HiLOM RM16 Z (LH502C) Asymmetric 98 %	90* 99 23: 60* 99
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM16 Z (LH502C) Asymmetric	90* 99 70* 240
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White	90* 99 27 60 <sup>6</sup> 200 60 <sup>6</sup> 00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White	9)* 21 6)* (1)9 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White	9°* 99 31° 280 6° 280 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HILOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White ents:	25 <sup>3</sup> 29 <sup>3</sup> 39 <sup>3</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White ents:	25 <sup>3</sup> 0 <sup>0</sup> 25 <sup>3</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White ents:	25 <sup>3</sup> 29 <sup>3</sup> 39 <sup>3</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White ents:	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White ents:	25 <sup>3</sup> 29 <sup>3</sup> 39 <sup>3</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White ents:	20° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White ents:	20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 98 % 0.4 cd/lm 1 White ents:	20°



SAMSI	IING	
LED	LH351B	90° 90'
FWHM / FWTM	Asymmetric	75*70
Efficiency	94 %	
Peak intensity	0.6 cd/lm	51° 20 60°
LEDs/each optic	1	
Light colour	White	-55"
Required compone		
		XIIX
		500
		30* 15* 30*
SAMS	UNG	50**
LED	LH351D	
FWHM / FWTM	Asymmetric	75* 500 75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60° 800
LEDs/each optic	1	
Light colour	White	45* 3% 45*
Required compone	ents:	
		400
		<sup>30*</sup> <u>15</u> ° 0° 15* <sup>30*</sup>
SAMS	UNG	50'4
	UNG LH351Z	997
	LH351Z	30 <sup>4</sup> 25 <sup>6</sup> 200 75 <sup>6</sup>
LED FWHM / FWTM		90° ,75° (20) 75°
LED FWHM / FWTM Efficiency	LH351Z Asymmetric	99 <sup>4</sup> 75 <sup>5</sup> 40 <sup>4</sup> 209 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity	LH351Z Asymmetric 94 %	99 75 61 60 75 60 75 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White ents: LED-Pa-L15c2W11c2-xxx-C050-01	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone LED FWHM / FWTM Efficiency Peak intensity	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White ents: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Electronik GmbH LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White ents: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 97 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Electronic EmbH LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White ents: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Electronik EmbH LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White ents: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Electronik EmbH LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White ents: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White ents: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Electronic EmbH LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 0.6 cd/lm 1 White ents: LED-Pa-L15c2W11c2-xxx-C050-01 Asymmetric 97 % 0.6 cd/lm 1 White	



seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Acrich MJT 4040 Asymmetric 94 % 0.5 cd/lm 1 White nts:	
SEOUL		
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone	Z5 Asymmetric 93 % 1 White nts:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM	Z5M1/Z5M2 Asymmetric	99* 99* 200 99* 99*
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.7 cd/lm 1 White	67. 67.
Required compone	nts:	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
SEQUE SECUL SEMICONDUCTOR	Z8Y22	99°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1	



-				
SEOUL				FT
SEOUL SEMICONDUCTOR	Z8Y22P		90*	90*
FWHM / FWTM	Asymmetric		75*	75*
Efficiency	94 %			
Peak intensity	0.5 cd/lm		-80%	601
LEDs/each optic	1		200	$\checkmark$ $\times$
Light colour	White			KY
Required compone			45	e0.7
Required compone				1 T
				$\downarrow$
			/30° 15 <sup>2</sup> 0°	15° 30°
TOSHIBA				F-T
Leading Innovation >>>	<b>T</b> 1 (1 a		90*	90*
	TL1L3		750	75"
FWHM / FWTM	Asymmetric			
Efficiency	94 %		604	604
Peak intensity	0.4 cd/lm			$\sim$
LEDs/each optic	1			
Light colour	White		45° 300	65*
Required compone	ents:			
			400	-+
			$\times$	
			30* 15 59	30*
TOSHIBA				T-T-I
Leading Innovation >>>			90*	90°
LED	TL1L4		71	
FWHM / FWTM	Asymmetric		100	$\sim$
Efficiency	94 %		608	60*
Peak intensity	0.5 cd/lm		28	
LEDs/each optic	1			
Light colour	White		450 300	
Required compone	ents:		X	X
			400	-tV
			30° 500	15° 30°
TDIDO			and a set of the set o	7
TRIDON				
LED	RLE 2x4 2000lm HP EXC2 OTD			
FWHM / FWTM	Asymmetric			
Efficiency	94 %			
Peak intensity	0.7 cd/lm			
LEDs/each optic	1			
Light colour	White			
Required compone	ents:			



TRIDON	NIC .	90° 90°
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	75* 200 75*
Efficiency	94 %	
Peak intensity	0.7 cd/lm	. 60%
LEDs/each optic	1	
Light colour	White	
Required compone		45* 300 45*
Required compone	ans.	
		400
		30° <u>500</u> 30° 30°
TRIDON		
TRIDUI		90° 90°
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	250 - 250 - 250
Efficiency	94 %	
Peak intensity	1 cd/lm	400
LEDs/each optic	1	
Light colour	White	d5° 600 63°
Required compone	ents:	$\times$
		$\times$
		1000
		30° 30°
		11 <sup>1</sup> 11 <sup>1</sup> 11 <sup>1</sup>
TRIDO	NIC .	
		99 <sup>4</sup> 90 <sup>4</sup>
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	
LED FWHM / FWTM	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric	15 <sup>4</sup> 0 <sup>4</sup> 15 <sup>4</sup>
LED FWHM / FWTM Efficiency	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 %	200
LED FWHM / FWTM Efficiency Peak intensity	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm	20 20 30 Minutes 10 10 10 10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>TRIDON</b> LED FWHM / FWTM Efficiency	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents: RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone FWHM / FWTM Efficiency Peak intensity	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White ents:	

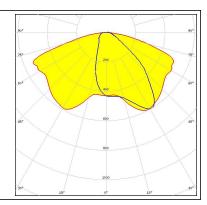


# **TRIDONIC**

LED

FWHM / FWTMAsEfficiency94Peak intensity1LEDs/each optic1Light colourWRequired components:

RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 % 1 cd/lm 1 White





CREE ≑			-
LEDs	XP-G2	30*	90*
FWHM / FWTM	Asymmetric	736	
Efficiency	91 %		
-	91 % 0.7 cd/lm	504	60*
Peak intensity			
LEDs/each optic			$\sim$ $\times$
Light colour	White	45'	45+
Required components:		400	
C17580_STRADA-2>	2-5HD-WH1	$\times$ / T \	
		200	
		30* 1173 00	10° 30°
CREE ÷			-PI
		90*	90*
LED	XP-G2		
FWHM / FWTM	Asymmetric	200	
Efficiency	78 %	50°	604
Peak intensity	0.5 cd/lm	200	
LEDs/each optic	1		
Light colour	White	45+ 300	45*
Required components:			
Deste stive alst		400	
Protective plate	a, glass		
		304	30*
		THIE	TT
LED LEDS		90°	90*
	XP-G2 HE	75°	
FWHM / FWTM	Asymmetric	751	78"
FWHM / FWTM Efficiency	Asymmetric 94 %	20 60 20	77.
FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.6 cd/lm	5% 10 6% 20	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1	20 64 20 70	50*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm	20 64 65 70 70 70	6,
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1	270 64 57 65 60	6*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1	25 <sup>3</sup> 200 64 <sup>4</sup> 200 65 <sup>4</sup> 200 65 <sup>4</sup> 400	5°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1	20 20 40 40 50	6*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1		13, 25, e4, e2, 22,
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1		30*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White		30*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3		30*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric		314
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 73 %		30*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 73 % 0.4 cd/lm		30*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREECS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 73 % 0.4 cd/lm 1		30*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 73 % 0.4 cd/lm		30-
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 73 % 0.4 cd/lm 1 White		30-
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 73 % 0.4 cd/lm 1 White		30*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2)	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 73 % 0.4 cd/lm 1 White 22-SHD-WHT		314
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White XP-G3 Asymmetric 73 % 0.4 cd/lm 1 White 22-SHD-WHT		00*



CREE ≑		
LEDs	XP-G3	90° 90°
FWHM / FWTM	Asymmetric	75%
Efficiency	77 %	
Peak intensity	0.4 cd/lm	80+ X 601
LEDs/each optic	1	2%
Light colour	White	
Required components:	White	300
rioquirou componente.		
Protective plat	e, glass	400
		$\times$ / $\setminus$ $\times$
		30* <u>45</u> <sup>2</sup> 0 <sup>6</sup> <u>15</u> <sup>2</sup> 30 <sup>4</sup>
		014 014
LED	XP-L2	~ ~ ~
FWHM / FWTM	Asymmetric	75°
Efficiency	78 %	
Peak intensity	0.4 cd/lm	60*
LEDs/each optic	1	200
Light colour	White	45*
Required components:		30
Protective plat	e, glass	
		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup> 30 <sup>5</sup>
	DS	00,         10,         00,           30,         15,         00,
	DS	99°
		20° 10° 10° 10° 10°
LED	LUXEON H50-2	23° 15° 0° 15° 35° 5° 23° 13° 5°
LED FWHM / FWTM	LUXEON H50-2 Asymmetric	200 <u>125</u> <u>0</u> <u>125</u> <u>365</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u> <u>366</u>
LED FWHM / FWTM Efficiency	LUXEON H50-2	20 <u>10</u> <u>10</u> <u>10</u> <u>10</u>
LED FWHM / FWTM Efficiency LEDs/each optic	LUXEON H50-2 Asymmetric %	
LED FWHM / FWTM Efficiency	LUXEON H50-2 Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	LUXEON H50-2 Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	LUXEON H50-2 Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	LUXEON H50-2 Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	99° 0° 25°
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	89° 25° 0° 15°
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	22 <sup>3</sup> 0 <sup>4</sup> 23 <sup>5</sup>
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	22 <sup>3</sup> 6 <sup>3</sup> 23 <sup>4</sup>
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: <b>With Components:</b> <b>ED</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON H50-2 Asymmetric % 1 White S LUXEON HL2X Asymmetric 78 % 0.5 cd/lm 1	20 <sup>2</sup> 0 <sup>2</sup> 13 <sup>2</sup>
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: <b>WIM / COMPARENT</b> Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	20 <sup>2</sup> 0 <sup>2</sup> 13 <sup>2</sup>
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: <b>WIM / COMPARENT</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON H50-2 Asymmetric % 1 White	20 <sup>2</sup> 0 <sup>2</sup> 13 <sup>2</sup>
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: <b>WIM / COMPARENT</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	20 <sup>2</sup> 0 <sup>4</sup> 23 <sup>4</sup>



	05	90°
LED FWHM / FWTM Efficiency	LUXEON HL2Z Asymmetric 95 %	R1 100
Peak intensity	0.6 cd/lm	sor And
LEDs/each optic	1	
Light colour	White	45*
Required components:		20° - 27° - 6° - 33°
	05	90'
LED	LUXEON HL2Z	
FWHM / FWTM	Asymmetric	75°
Efficiency	80 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45 300
Required components:		
Protective plate	e, glass	
MST Your solutions		80°
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	100
Efficiency	79 %	50*
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components: Protective plate	e, glass	30
MICHIΛ		23 <sup>3</sup> 0 <sup>4</sup> 13 <sup>3</sup>
	NF2x757G	90*
LED FWHM / FWTM		75*
Efficiency	Asymmetric 78 %	
Peak intensity	0.5 cd/lm	50+ · · · · · · · · · · · · · · · · · · ·
LEDs/each optic	1	
Light colour	White	
Required components:		× ×
Protective plate	e, glass	
		30* 5% 10 <sup>2</sup>



<b>ΜΝΙCΗΙΛ</b>		90 <sup>+</sup>
LED	NFSx757G	
FWHM / FWTM	Asymmetric	750
Efficiency	79 %	
Peak intensity	0.5 cd/lm	eer V
LEDs/each optic	1	
Light colour	White	
Required components:		300
Protective plate	, glass	400
		30* 13 <sup>5</sup> 0 <sup>6</sup> 15*
<b>Μ</b> ΝΙCΗΙΛ		90°
LED	NV4WB35AM	
FWHM / FWTM	Asymmetric	75%
Efficiency	95 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 300
Required components:		$\times$
		400
		30°
Neuro		15 <sup>2</sup> 0 <sup>8</sup> 15 <sup>9</sup>
<b>ΜΝΙCΗΙΛ</b>		90*
LED	NVSW219F	
FWHM / FWTM	Asymmetric	75°
Efficiency	76 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 300
Required components:		$\sim$ / T / $\sim$
Protective plate		
Fiblective plate	, giass	
		30° 15° 60° 15°
MICHIΛ		20 <sup>4</sup> 20 <sup>5</sup> 40 <sup>6</sup> 10 <sup>5</sup>
	NVSW519A	20 <sup>20</sup> 20 <sup>20</sup> 40 <sup>20</sup> 10 <sup>20</sup>
	NVSW519A Asymmetric	20 <sup>20</sup> 25 <sup>2</sup> 25 <sup>0</sup> 15 <sup>2</sup>
LED		20 <sup>4</sup> 23 <sup>3</sup> 40 13 <sup>3</sup>
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric	20* <u>25*</u> <u>40</u> <u>15*</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 80 % 0.4 cd/lm 1	20° 13 <sup>3</sup> 40 13 <sup>3</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 0.4 cd/lm	5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 80 % 0.4 cd/lm 1	200 127 127 127 127 127 127 127 127 127 127
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 80 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 0.4 cd/lm 1 White	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2



<b>ΜΝΙCΗΙΛ</b>		T T TT
LED	NVSW519A	90* 99
FWHM / FWTM		75*
	Asymmetric 93 %	
Efficiency	95 % 0.5 cd/lm	50* 200 6
Peak intensity		
LEDs/each optic		300
Light colour	White	45*
Required components:		400
		X    X
		500
		30* 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>*</sup> 30'
<b>ΜΝΙCΗΙΛ</b>		90° 90
LED	NVSxE21A	
FWHM / FWTM	Asymmetric	73° 70
Efficiency	78 %	
Peak intensity	0.5 cd/lm	60* 60
LEDs/each optic	1	
Light colour	White	451 300 451
Required components:		$\times$
Droto stivo ploto		40
Protective plate	, glass	X     X
		30* <u>500</u> 30* 30*
Mauguna		
<b>ΜΝΙCΗΙΛ</b>		90* 90*
	NVSxx19B/NVSxx19C	90°
	NVSxx19B/NVSxx19C Asymmetric	90 <sup>+</sup> 90 <sup>+</sup>
LED FWHM / FWTM		25 June 75
LED FWHM / FWTM Efficiency	Asymmetric	20 73 63 64 64 64 64 65
LED FWHM / FWTM	Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM LED	Asymmetric 94 % 0.6 cd/lm 1 White PrevaLED Brick HP 2x8	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM LED FWHM / FWTM	Asymmetric 94 % 0.6 cd/lm 1 White PrevaLED Brick HP 2x8 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM LED FWHM / FWTM Efficiency	Asymmetric 94 % 0.6 cd/lm 1 White PrevaLED Brick HP 2x8 Asymmetric 77 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>OSRAM</b> LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.6 cd/lm 1 White PrevaLED Brick HP 2x8 Asymmetric 77 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>OSRAM</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.6 cd/lm 1 White PrevaLED Brick HP 2x8 Asymmetric 77 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>OSRAM</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White PrevaLED Brick HP 2x8 Asymmetric 77 % 0.4 cd/lm	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>OSRAM</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White PrevaLED Brick HP 2x8 Asymmetric 77 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>OSRAM</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.6 cd/lm 1 White PrevaLED Brick HP 2x8 Asymmetric 77 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>OSRAM</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.6 cd/lm 1 White PrevaLED Brick HP 2x8 Asymmetric 77 % 0.4 cd/lm 1 White	



OSRAM Opto Semiconductors		
	OSCONIQ P 3737 (3W version)	90° - 90°
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	94 // 0.5 cd/lm	.60*
LEDs/each optic	1	X - 30
Light colour	White	- 6 <sup>1</sup>
Required components:		400
		30° 15° 30°
OSRAM		
Opto Semiconductors	OSCONIQ P 3737 (3W version)	90* 90*
EED FWHM / FWTM		750 750
Efficiency	Asymmetric 78 %	200
-	0.4 cd/lm	60* 60*
Peak intensity		
LEDs/each optic	1 White	
Light colour Required components:	White	45* 45*
Required components.		
Protective plate	e, glass	
		400
		90* <u>15</u> <sup>5</sup> 0 <sup>6</sup> 15 <sup>6</sup> 30*
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75% 75%
Efficiency	72 %	
Peak intensity	0.4 cd/lm	60* X 60*
LEDs/each optic	1	
Light colour	White	45'
Required components:		300
C17677_STRADA-22	(2-SHD-BLK	
Protective plate	e, glass	30° (12) 0° (14) 30°
OSRAM		
Opto Semiconductors	OSI ON Severe CSSBM2/CSSBM2	90* 90*
	OSLON Square CSSRM2/CSSRM3	73*
FWHM / FWTM	Asymmetric	
Efficiency	91 %	50° 60°.
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	-6°
Required components:		400
C17580_STRADA-22	(2-SHD-WH)	$\times$
		500
		30* 30*

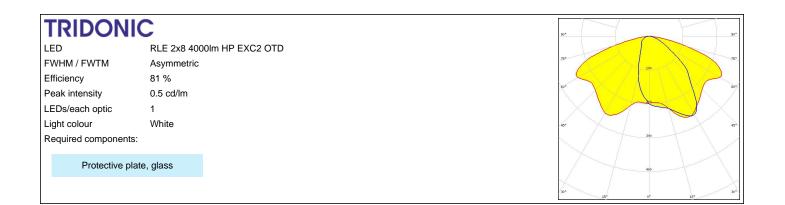


000444		
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75% 78°
Efficiency	78 %	
Peak intensity	0.5 cd/lm	604 604
LEDs/each optic	1	200
Light colour	White	
Required components:		
Protective plat	e, glass	440
		$Z / T \setminus X$
		30* 15 <sup>2</sup> 0 <sup>8</sup> 15 <sup>2</sup> 30 <sup>2</sup>
OSRAM Opto Semiconductors		90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75°
Efficiency	80 %	
Peak intensity	0.5 cd/lm	60*
LEDs/each optic	1	
Light colour	White	51 ST
Required components:		30
Protective plat	e, glass	400
OSRAM		
Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	
Efficiency	88 %	50* 60*
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		
C17677_STRADA-2	(2-SHD-BLK	X / T / X
		30* and av 30*
OSRAM		
Opto Semiconductors	OSI ON Square CSSDM2/CSSDM2	90° 90°
LED FWHM / FWTM	OSLON Square CSSRM2/CSSRM3	75°
	Asymmetric	
	76.0/	
Efficiency	76 %	614 604
Efficiency Peak intensity	0.5 cd/lm	6 <sup>1</sup>
Efficiency Peak intensity LEDs/each optic	0.5 cd/lm 1	67
Efficiency Peak intensity LEDs/each optic Light colour	0.5 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	0.5 cd/lm 1 White	6 <sup>1</sup>
Efficiency Peak intensity LEDs/each optic Light colour	0.5 cd/lm 1 White	er 67 20
Efficiency Peak intensity LEDs/each optic Light colour Required components:	0.5 cd/lm 1 White K2-SHD-WHT	



PHILIPS		
LED	Fortimo FastFlex LED 2x8 DA G5	90°
FWHM / FWTM	Asymmetric	750 751
Efficiency	80 %	
Peak intensity	0.4 cd/lm	604
LEDs/each optic	1	
Light colour	White	45°
Required components:		300
Protective plat	e, glass	400
		30* 32 <sup>5</sup> 9 <sup>6</sup> 0 15 <sup>4</sup> 30*
SAMSU	NG	
LED	HiLOM RH12 Z (LH351C)	
FWHM / FWTM	Asymmetric	75%
Efficiency	80 %	
Peak intensity	0.4 cd/lm	60 <sup>4</sup> 60*
LEDs/each optic	1	
Light colour	White	45' 65'
Required components:		30
Protective plat	e, glass	$\times$ / $\times$
		30* <u>15</u> <sup>5</sup> <del>50</del> 15 <sup>4</sup> 30*
SAMSU	NG	90*
LED	LH351B	
FWHM / FWTM	Asymmetric	75%
Efficiency	75 %	
Peak intensity	0.4 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	45" 310 45"
Required components:		
		400
Protective plat	e, glass	$\times$ / $\times$ ×
		30* <u>500</u> 30* 30*
SEOUL		90* 90*
LED	Acrich MJT 4040	
FWHM / FWTM	Asymmetric	75%
Efficiency	78 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45'
Required components:		/ ** · / /
Protective plate, glass		
i Totective pla		400
		30* 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup> 30 <sup>4</sup>







#### **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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