

# PRODUCT DATASHEET C15135\_STRADA-2X2-T1

# STRADA-2X2-T1

Symmetric IESNA Type I (medium) beam for narrow roads and paths with long pole distance and tilted armature

#### **SPECIFICATION:**

Dimensions Height Fastening ROHS compliant 50.0 x 50.0 mm 7.8 mm pin, screw yes (i)



#### **MATERIALS:**

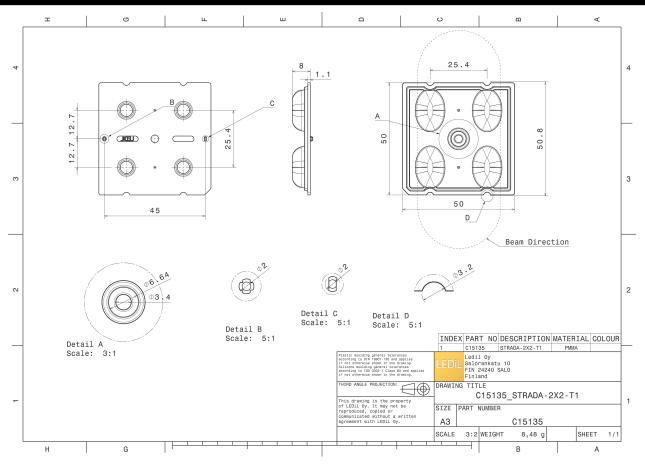
Component	Туре	Material	Colour	Finish
STRADA-2X2-T1	Multi-lens	PMMA	clear	

#### **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C15135_STRADA-2X2-T1	800	160	160	6.9
» Box size: 480 x 280 x 300 mm				



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



bridgelux.		I TAY AT I
		90° 90°
LED	Bridgelux SMD 5050	200 200
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.9 cd/lm	50* <u>600</u> 50*
LEDs/each optic	1	80
Light colour	White	45° 1000 45°
Required compone		
Required compone	115.	120
		1430
		1600
		30° 15 <sup>5</sup> 1850 15° 30°
		90* 90*
LED	J Series 5050C 6V E Class	776 770
FWHM / FWTM	Asymmetric	400
Efficiency	96 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 1200 45*
Required compone		
i toquiroù compono		
		1600
		30* 2000 30* 30*
		90* 90*
LED	XD16	
FWHM / FWTM	Asymmetric	75* 400 75*
Efficiency	94 %	
		504 504
Peak intensity	1.1 cd/lm	
LEDs/each optic	4	
Light colour	White	45* 1200 45*
Required compone	nts:	
		1630
		2000
		10° 10° 10° 30°
CREE ≑		
LEDS		90*
LED	XD16	400
FWHM / FWTM	Asymmetric	
Efficiency	94 %	50 <sup>4</sup> 000
Peak intensity	1.5 cd/im	1200
LEDs/each optic	1	$ X \times     \times                              $
Light colour	White	45* 45*
Required compone		2000
		2400
		X
		30* 30* 30*



		90* 90*
LED	XM-L3	75° 400 75°
FWHM / FWTM	Asymmetric	
Efficiency	96 %	800
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	1200
Light colour	White	45"
Required componer	its:	1500
		2000
		2430
		30 <sup>4</sup> 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup> 30 <sup>4</sup>
		THY KHI
	VD C2	90* 90*
LED	XP-G2	75* 400 75*
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60%
Peak intensity	1.5 cd/lm	X
LEDs/each optic	1	$X \times I \times X$
Light colour	White	45° 45'
Required componer	its:	2000
		2430
		2009
		30° 15° 30°
CREE ≑		THA FFT
- FDe		
LEDS		90* 90*
LED	XP-G3	50* 50* 25- 400 70*
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.3 cd/Im 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.3 cd/lm 1 White	32 - 40 - 72 67 - 60 - 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.3 cd/lm 1 White	23° 66 73° 67 56 67 1233 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.3 cd/lm 1 White	23° 66 73° 67 56 67 1233 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.3 cd/lm 1 White	23° 66 73° 67 56 67 1233 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.3 cd/lm 1 White	173 <sup>-</sup> 469 775 60 <sup>-</sup> 60 <sup>-</sup> 60 <sup>-</sup> 60 <sup>-</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1.3 cd/lm 1 White	23° 66 73° 67 56 67 1233 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1.3 cd/lm 1 White	173 <sup>-</sup> 469 775 60 <sup>-</sup> 60 <sup>-</sup> 60 <sup>-</sup> 60 <sup>-</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1.3 cd/lm 1 White tts:	173 <sup>1</sup> 469 772 60 <sup>2</sup> 609 60 11732
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1.3 cd/lm 1 White hts:	27- 600 77- 607 600 607 11:20 607
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1.3 cd/lm 1 White hts: XP-L HD Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREE LED FWHM / FWTM Efficiency	Asymmetric 94 % 1.3 cd/lm 1 White Its: XP-L HD Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.3 cd/lm 1 White tts: XP-L HD Asymmetric 94 % 1.2 cd/lm 1 White	



LED	XP-L HI	10°-
FWHM / FWTM	Asymmetric	73* 400 7**
Efficiency	94 %	
Peak intensity	1.4 cd/lm	. 60° 60°.
		X 1200 X
LEDs/each optic Light colour	1 White	
Required compone		6'
Required component	15.	200
		2490
		30° 2800 30° 30°
LED	XP-L2	90" 90"
FWHM / FWTM	AP-L2 Asymmetric	200
Efficiency	94 %	40
Peak intensity	1 cd/lm	.60° 60°
LEDs/each optic	1	
Light colour	White	1000
Required component		1200 CT
Required component	no.	3830
		1630
		1850
		30 <sup>+</sup> 15 <sup>3</sup> 2000 30 <sup>+</sup> 30 <sup>+</sup>
UMIL	EDS	90°
LED	LUXEON 5050 Round LES	200
FWHM / FWTM	Asymmetric	75* 400 75*
Efficiency	94 %	
Peak intensity	1 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	6° / T / 6°
Required compone	its:	1200
		1830
		1500
		1800
		30° 15° 30°
🥙 LUMIL	EDS	90° 90°
LED	LUXEON V	
1		
		73* 400 74*
FWHM / FWTM	Asymmetric	400
FWHM / FWTM Efficiency	Asymmetric 94 %	60 <sup>4</sup> 60 <sup>4</sup>
FWHM / FWTM Efficiency Peak intensity	Asymmetric	50 50 60 60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	23 - 40 - 74 01 - 60 - 67 - 123 - 77 -
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1 White	20 40 70 00 60 60 60 60 60 60 60 60 60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	20 40 70 60 60 60 10 10 10 10 10 10 10 10 10 10 10 10 10
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	20 40 70 01 00 00 05 00 00 100 100 100 100 100 100 10



🤭 LUMILI	EDS	
LED	LUXEON V2	
FWHM / FWTM	Asymmetric	75° 400 70'
Efficiency	94 %	800
-	1.4 cd/im	.50 <sup>4</sup>
LEDs/each optic	1	120
Light colour	White	45* 1600 45*
Required componen		
		2000
		2400
		20° 2200 30° 30° 30°
MST Your solution	75	
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	75* 400 75
Efficiency	97 %	800
Peak intensity	1.4 cd/im	60* 60*
LEDs/each optic	1	1220
Light colour	White	45* 1600 45*
Required componen		
		2000
		2430
		13° 2200 15° 30°
<b>Μ</b> ΝΙCΗΙΛ		90* 90*
LED	NVSW219D	0
FWHM / FWTM	Asymmetric	75* 400 75*
<b>F</b> (1):	94 %	
Efficiency	54 70	800
	1.3 cd/lm	.50* 800 60*
		60° (67 1739
Peak intensity	1.3 cd/lm	60° 60° 1739 6° 100 6°
Peak intensity LEDs/each optic	1.3 cd/lm 1 White	$\vee$ $\times$ / T $\setminus$ $\times$ $\vee$
Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1 White	$\vee$ $\times$ / T $\setminus$ $\times$ $\vee$
Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1 White	$\vee$ $\times$ / T $\setminus$ $\times$ $\vee$
Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1 White	$\vee$ $\times$ / T $\setminus$ $\times$ $\vee$
Peak intensity LEDs/each optic Light colour Required componen	1.3 cd/lm 1 White	e <sup>6</sup> 109 e <sup>5</sup>
Peak intensity LEDs/each optic Light colour Required componen	1.3 cd/lm 1 White ts:	e <sup>6</sup> 109 e <sup>5</sup>
Peak intensity LEDs/each optic Light colour Required componen	1.3 cd/lm 1 White Is: NVSW319B	e <sup>6</sup> 109 e <sup>5</sup>
Peak intensity LEDs/each optic Light colour Required componen	1.3 cd/lm 1 White ts: NVSW319B Asymmetric	40° 109 40° 200 200 30° 12 <sup>4</sup> 0° 12° 30°
Peak intensity LEDs/each optic Light colour Required componen	1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 %	40° 109 40° 200 200 30° 12 <sup>4</sup> 0° 12° 30°
Peak intensity LEDs/each optic Light colour Required componen	1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % 1.3 cd/lm	40 1299 407 2099 2099 209 2099 209 2099 209 209 209 200 209 200 200
Peak intensity LEDs/each optic Light colour Required componen <b>WICHIA</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % 1.3 cd/lm 1	20.         20.0         20.0           20.0         20.0         20.0           20.0         20.0         0.0
Peak intensity LEDs/each optic Light colour Required componen <b>WICHIA</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % 1.3 cd/lm 1 White	40 1299 407 2099 2099 209 2099 209 2099 209 209 209 200 209 200 200
Peak intensity LEDs/each optic Light colour Required componen <b>WICHIA</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % 1.3 cd/lm 1 White	40 129 40 40 1 209 209 209 209 209 209 209 209 209 209
Peak intensity LEDs/each optic Light colour Required componen	1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % 1.3 cd/lm 1 White	40 129 40 40 1 209 209 209 209 209 209 209 209 209 209
Peak intensity LEDs/each optic Light colour Required componen <b>WICHIA</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1 White ts: NVSW319B Asymmetric 94 % 1.3 cd/lm 1 White	40 129 40 40 1 209 209 209 209 209 209 209 209 209 209



<b>ØNICHI</b>		50°
LED	NVSW3x9A	
FWHM / FWTM	Asymmetric	73* 600 75*
Efficiency	94 %	
Peak intensity	1.3 cd/lm	60* <u>80</u> 60*
LEDs/each optic	1	1230
Light colour	White	
Required component		1500
		2400
		30° 15° 0° 15° 30°
<b>ØNICHIA</b>		84
LED	NVSxE21A	400
FWHM / FWTM	Asymmetric	121 772
Efficiency	94 %	
Peak intensity	2.1 cd/lm	60 <sup>4</sup> 1220 60 <sup>4</sup>
LEDs/each optic	1	1000
Light colour	White	45" 2000 45"
Required component		200
		2000
		300
		***
		30° 30° 30°
<b>ØNICHIA</b>		50° - 50°
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	751 400 751.
Efficiency	94 %	90
Peak intensity	1.4 cd/lm	60 <sup>4</sup> itte
LEDs/each optic	1	
Light colour	White	45* <u>1000</u> 45*
Required compone	nts:	2000
		200
		200 200
00044		
<b>OSRAM</b>		99° 99°
LED	PrevaLED Brick HP 2x8	
FWHM / FWTM	Asymmetric	251 400 /51
Efficiency	94 %	
Peak intensity	1.4 cd/lm	60° 60°.
LEDs/each optic	1	
		1600
Light colour	White	43° 43°
		o
Light colour		6 <sup>1</sup> 8 <sup>10</sup> 6 <sup>1</sup>
Light colour		et 200 200 300
Light colour		



[		
OSRAM Opto Semiconductors		
LED	Duris S8	~ ~ ~ ~
FWHM / FWTM	Asymmetric	751 200 79.
Efficiency	96 %	440
Peak intensity	0.9 cd/lm	60° 600 50°
LEDs/each optic	1	
Light colour	White	57 1000 57
Required compone		1200
		3450
		1000
		30° 1050 10° 30°
OSRAM Opto Semiconductors		80° 90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	23 400 75.
Efficiency	94 %	
Peak intensity	1.4 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	65° 1600 65°
Required compone	nts:	
		2450
		200
		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup>
OSRAM		THY YHT
OSRAM Opto Semiconductors		50°
Opto Semiconductors	OSLON Square PC	25 - 40 - 5°
opto Semiconductors LED FWHM / FWTM	Asymmetric	32.
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.6 cd/lm	324
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.6 cd/lm 1 White	
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.6 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.6 cd/lm 1 White	23 00 10 10 10 10 10 10 10 10 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.6 cd/lm 1 White	23 00 10 10 10 10 10 10 10 10 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.6 cd/lm 1 White	23 00 10 10 10 10 10 10 10 10 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1.6 cd/lm 1 White	292 001 1120 11
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1.6 cd/lm 1 White nts:	292 001 1120 11
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1.6 cd/lm 1 White nts: S Fortimo FastFlex LED 2x8 DA G4	73° 00 127 127 127 127 127 127 127 127
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLEP LED FWHM / FWTM	Asymmetric 94 % 1.6 cd/lm 1 White nts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric	292 001 1120 11
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLED FWHM / FWTM Efficiency	Asymmetric 94 % 1.6 cd/lm 1 White nts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.6 cd/lm 1 White nts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.6 cd/lm 1 White I S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.4 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.6 cd/lm 1 White I S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.4 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.6 cd/lm 1 White I S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.4 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.6 cd/lm 1 White I S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.4 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.6 cd/lm 1 White I S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.4 cd/lm 1 White	



PHILIF	S	90°
LED	Fortimo FastFlex LED 2x8 DA G4+	0
FWHM / FWTM	Asymmetric	230 400 7
Efficiency	97 %	
Peak intensity	1.2 cd/lm	AO <sup>4</sup>
LEDs/each optic	1	1200
Light colour	White	40°
Required compone	nts:	1630
		30* 2450 0* 10 <sup>5</sup> 0* 10*
PHILIF		
		90*
LED	Fortimo FastFlex LED 2x8 DA G5	400
FWHM / FWTM	Asymmetric	
Efficiency	97 %	. 60 <sup>6</sup>
Peak intensity	1.4 cd/lm	1200
LEDs/each optic	1	$X \times (T \setminus X)$
Light colour	White	45* 1690
Required compone	nts:	2000
		2420
		30° 2500 15°
SAMSI	ING	
		90°
LED	HiLOM RC12 Z (LH181B)	75* 400
FWHM / FWTM	Asymmetric	
Efficiency	96 %	50%
Peak intensity	1.8 cd/lm	1600
LEDs/each optic	1 White	2000
Light colour		
Light colour		45
Required compone		-61 - 200
		45
		-67
		-07
Required compone	nts:	5° 300 200
Required compone	nts: JNG	
Required compone	nts: JNG HiLOM RH12 Z (LH351C)	
Required compone	nts: JNG HiLOM RH12 Z (LH351C) Asymmetric	5 200 200 200 200 200 200 200 20
Required compone <b>SAMSI</b> LED FWHM / FWTM Efficiency	nts: <b>JNG</b> HiLOM RH12 Z (LH351C) Asymmetric 97 %	5° 300 200
Required compone <b>SAMSI</b> LED FWHM / FWTM Efficiency Peak intensity	nts: <b>JNG</b> HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.4 cd/lm	5 209 209 209 209 209 209 209 209
Required compone <b>SAMSI</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	nts: <b>JNG</b> HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.4 cd/lm 1	5 <sup>1</sup> 200 200 200 200 200 200 200 200 200 20
Required compone <b>SAMS</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: <b>JNG</b> HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.4 cd/lm 1 White	5 309 309 309 309 309 309 309 309
Required compone <b>SAMS</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	nts: <b>JNG</b> HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.4 cd/lm 1 White	
Required compone <b>SAMS</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: <b>JNG</b> HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.4 cd/lm 1 White	
Required compone <b>SAMS</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	nts: <b>JNG</b> HiLOM RH12 Z (LH351C) Asymmetric 97 % 1.4 cd/lm 1 White	



SAMSI	ING	
LED	HiLOM RH16 (LH351C)	907 9
FWHM / FWTM	Asymmetric	201 400
Efficiency	94 %	
Peak intensity	1.4 cd/lm	.60*
LEDs/each optic	1	120
Light colour	White	100
Required compone		.er 1090
rtequirea compone	41G.	
		24,00
		20° 2000 15°
SVWSI	ING	
LED	HiLOM RM12 Z (LH502C)	39°
FWHM / FWTM	Asymmetric	75 200
Efficiency	97 %	400
Peak intensity	0.9 cd/lm	50° 660
LEDs/each optic	1	
Light colour	White	200
Required compone		1270
rtoquilou oompone		100
		100
		30* 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup> 3
SVWSI	ING	
LED	HiLOM RM16 Z (LH502C)	
FWHM / FWTM	Asymmetric	20 200
Efficiency	99 %	40
Peak intensity	0.9 cd/lm	60° 600
LEDs/each optic	1	80
Light colour	White	57 1000
Required compone		100
		3430
		1679
		1830
		100° 45° 0° 13° 3
SAMSI	ING	
		99*
LED FWHM / FWTM	HiLOM RM8 Z (LH502C) Asymmetric	759 200
Efficiency	98 %	400
Peak intensity	96 % 0.9 cd/lm	61° 500
LEDs/each optic	0.9 ca/im 1	800
Light colour	ı White	
		.6*
	A113.	
		1400
Required compone		
		109



<u> </u>	ING	
LED	LH351B	90* 90*
FWHM / FWTM	Asymmetric	75* 400 75
Efficiency	94 %	
Peak intensity	1.3 cd/lm	504 504
LEDs/each optic	1	1220
Light colour	White	45* 1000 45*
Required compone	its:	XIX
		2020
		2110
		30° 25° 260 25° 30°
LED	LED-Pa-L15c2W11c2-xxx-C050-01	
FWHM / FWTM	Asymmetric	75° 400 75°
Efficiency	98 %	
Peak intensity	1.5 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	1600
Light colour	White	15. Jacob
Required compone	its:	2000
		2430
		200
		30° 15° 0° 30° 30°
SEOUL		THY FFT
SEOUL SEMICONDUCTOR	Z5M3	90* 90*
FWHM / FWTM	Asymmetric	75* 400 75*
Efficiency	94 %	
Peak intensity	1.3 cd/lm	103 000 100 100 100
LEDs/each optic	1	1220
Light colour	White	45*
Required compone	its:	1600
		2000
		2400
		30* 15 <sup>4</sup> 0 <sup>6</sup> 15* 30*
SEQU		20 <sup>1</sup> 20 <sup>1</sup> 0 <sup>1</sup> 10 <sup>1</sup> 30 <sup>1</sup>
SEOUL SEMICONDUCTOR	78¥22	20 <sup>10</sup> 20 <sup>10</sup> 0 <sup>10</sup> 20 <sup>10</sup> 20 <sup>10</sup>
SEOUL SEMICONDUCTOR	Z8Y22 Asymmetric	20 <sup>4</sup> 20 <sup>4</sup> 20 <sup>4</sup> 20 <sup>4</sup> 20 <sup>4</sup> 20 <sup>4</sup>
seoul semiconductor LED FWHM / FWTM	Asymmetric	20 <sup>10</sup> 0 <sup>10</sup> 10 <sup>10</sup> 20 20 <sup>10</sup> 0 <sup>10</sup> 10 <sup>10</sup> 20 20 <sup>10</sup> 0 <sup>10</sup> 20 20 <sup>10</sup> 20 <sup>10</sup> 20 20 <sup>10</sup> 20
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 94 %	20 <sup>10</sup> 20 <sup>10</sup> 0 <sup>10</sup> 10 <sup>10</sup> 20 20 <sup>10</sup> 0 <sup>10</sup> 10 <sup>10</sup> 20 20 <sup>10</sup> 0 <sup>10</sup> 0 <sup>10</sup> 20 20 <sup>10</sup> 0 <sup>10</sup>
seoul semiconductor LED FWHM / FWTM	Asymmetric	205
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.6 cd/lm	50° (60)
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.6 cd/lm 1 White	50*
seou. semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.6 cd/lm 1 White	6° (6) 100 (6) 6° (7)
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.6 cd/lm 1 White	6° 120 60 100 60



	Y FFI.
seoul semiconductor LED Z8Y22P	90*
FWHM / FWTM Asymmetric	400 75"
Efficiency 94 %	X/IIXX
Peak intensity 1.3 cd/lm	800 600
LEDs/each optic 1	1200
Light colour White Required components:	1600 45*
	2000
	2430
30*	0° 15° 30°
TRIDONIC	
TRIDONIC	
LED RLE 2x4 2000lm HP EXC2 OTD	
FWHM / FWTM Asymmetric	
Efficiency 94 %	
Peak intensity 1.5 cd/lm	
LEDs/each optic 1	
Light colour White	
Required components:	
TRIDONIC	
LED RLE 2x8 4000lm HP EXC2 OTD	0
LED     RLE 2x8 4000lm HP EXC2 OTD       FWHM / FWTM     Asymmetric	40 40 50
LED     RLE 2x8 4000Im HP EXC2 OTD       FWHM / FWTM     Asymmetric       Efficiency     94 %	X/IIXX
LED     RLE 2x8 4000Im HP EXC2 OTD       FWHM / FWTM     Asymmetric       Efficiency     94 %       Peak intensity     1.5 cd/lm	X/IIXX
LED     RLE 2x8 4000Im HP EXC2 OTD       FWHM / FWTM     Asymmetric       Efficiency     94 %       Peak intensity     1.5 cd/lm       LEDs/each optic     1	
LED     RLE 2x8 4000Im HP EXC2 OTD       FWHM / FWTM     Asymmetric       Efficiency     94 %       Peak intensity     1.5 cd/lm       LEDs/each optic     1       Light colour     White	- 50 - 127 - 127
LED     RLE 2x8 4000Im HP EXC2 OTD       FWHM / FWTM     Asymmetric       Efficiency     94 %       Peak intensity     1.5 cd/lm       LEDs/each optic     1	- 50 - 127 - 127
LED     RLE 2x8 4000Im HP EXC2 OTD       FWHM / FWTM     Asymmetric       Efficiency     94 %       Peak intensity     1.5 cd/lm       LEDs/each optic     1       Light colour     White	- 50 - 127 - 127
LED     RLE 2x8 4000Im HP EXC2 OTD       FWHM / FWTM     Asymmetric       Efficiency     94 %       Peak intensity     1.5 cd/lm       LEDs/each optic     1       Light colour     White	- 50 - 127 - 127
LED     RLE 2x8 4000Im HP EXC2 OTD       FWHM / FWTM     Asymmetric       Efficiency     94 %       Peak intensity     1.5 cd/lm       LEDs/each optic     1       Light colour     White	- 50 - 127 - 127
LED RLE 2x8 4000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.5 cd/Im LEDs/each optic 1 Light colour White Required components:	90 159 159 299 299 299
LED       RLE 2x8 4000lm HP EXC2 OTD         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       1.5 cd/lm         LEDs/each optic       1         Light colour       White         Required components       Image: Component State S	90 159 159 299 299 299
LED       RLE 2x8 4000lm HP EXC2 OTD         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       1.5 cd/lm         LEDs/each optic       1         Light colour       White         Required components       ************************************	00 1179 159 299 299 299
LED       RLE 2x8 4000lm HP EXC2 OTD         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       1.5 cd/lm         LEDs/each optic       1         Light colour       White         Required components       Image: Component State S	90 159 159 209 209 209 209 209 209 209 209 209 20
LED       RLE 2x8 4000lm HP EXC2 OTD         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       1.5 cd/lm         LEDs/each optic       1         Light colour       White         Required components       View         FRIDONIC         LED       RLE G1 49x121mm 2000lm xxx EXC OTD         FWHM / FWTM       Asymmetric         Efficiency       94 %	90 159 159 209 209 209 209 209 209 209 209 209 20
LED       RLE 2x8 4000lm HP EXC2 OTD         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       1.5 cd/lm         LEDs/each optic       1         Light colour       White         Required components       Vinite         Required components       Image: Component of the symmetric symm	
LED       RLE 2x8 4000lm HP EXC2 OTD         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       1.5 cd/lm         LEDs/each optic       1         Light colour       White         Required component       ************************************	
LED       RLE 2x8 4000lm HP EXC2 OTD         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       1.5 cd/lm         LEDs/each optic       1         Light colour       White         Required components       Image: Component State S	
LED       RLE 2x8 4000lm HP EXC2 OTD         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       1.5 cd/lm         LEDs/each optic       1         Light colour       White         Required component       ************************************	
LED       RLE 2x8 4000lm HP EXC2 OTD         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       1.5 cd/lm         LEDs/each optic       1         Light colour       White         Required components       ************************************	
LED       RLE 2x8 4000lm HP EXC2 OTD         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       1.5 cd/lm         LEDs/each optic       1         Light colour       White         Required components       Vinite         Required components       RLE G1 49x121mm 2000lm xxx EXC OTD         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       1.4 cd/lm         LEDs/each optic       1         Light colour       White	



TRIDON	1IC	87
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	70
Efficiency	94 %	60 <sup>4</sup>
Peak intensity	1.4 cd/lm	2007
LEDs/each optic	1	239
Light colour	White	45° 2200
Required compone	nts:	80° 50° 50° 50° 50° 50° 50° 50° 50° 50° 5
TRIDOM	lic	87
LED	RLE G1 49x223mm 4000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	751 200
Efficiency	94 %	1500
Peak intensity	1.4 cd/lm	605
LEDs/each optic	1	200
Light colour	White	
Required compone	nts:	80° 50° 6° 25°
TRIDON		99'
LED	RLE G1 49x245mm 4000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	351
Efficiency	94 %	100
Peak intensity	1.4 cd/lm	200
LEDs/each optic	1	
Light colour	White	6* 200
Required compone	nts:	679 679 679



[		
CREE ≑		
LEDS	J Series 5050C 6V E Class	90" 90"
FWHM / FWTM	Asymmetric	73* 200 75*
Efficiency	80 %	
	0.7 cd/lm	50 <sup>4</sup> 400 50*
Peak intensity		
LEDs/each optic	1	$\times \times / \wedge \times \times$
Light colour	White	-65* 000 65*
Required components:		1000
Protective plate	e, glass	
		1230
		30* <u>15</u> <sup>5</sup> <u>19</u> 20 <u>15</u> * 30*
LED	MHB-A/B	
FWHM / FWTM	Asymmetric	200 75°
Efficiency	94 %	400
Peak intensity	0.7 cd/lm	60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	
Required components:	White	40°
		1000
		1200
		100
		30* 30*
		1400 30* 30* 30*
		20° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1
CREE ÷	XP-G2	90° 90°
LED	XP-G2 Asymmetric	12 <sup>1</sup>
LED FWHM / FWTM	Asymmetric	30 <sup>2</sup> 91 <sup>2</sup>
LED FWHM / FWTM Efficiency	Asymmetric 77 %	30°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 77 % 0.8 cd/lm	90° 90° 73° 60 60° 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 77 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 77 % 0.8 cd/lm	200 pr 75° 200 75° 60° 60° 60°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 77 % 0.8 cd/lm 1	94* 94 73* 200 73* 86* 860 80 80* 800 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 77 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 77 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 77 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 77 % 0.8 cd/lm 1 White	90* 73* 60 60* 60* 60* 60* 60* 60* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 77 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 77 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 77 % 0.8 cd/m 1 White P, glass XP-G2 HE Asymmetric 95 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE Asymmetric 95 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE Asymmetric 95 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE Asymmetric 95 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE Asymmetric 95 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 77 % 0.8 cd/lm 1 White P, glass XP-G2 HE Asymmetric 95 % 1 cd/lm 1	



CREE ÷		
LEDs	XP-G3	×.
FWHM / FWTM	Asymmetric	75 200
Efficiency	74 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	× ×
Light colour Required components:	White	-6°
Required components:		100
Protective plate	, glass	1200
		1640
		130° 13 <sup>5</sup> 0° 15° 3
		92*
LED	XP-G3	2
FWHM / FWTM	Asymmetric	751 200
Efficiency	77 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	80
Light colour	White	45* 200
Required components:		
		1000
Protective plate	, glass	1230
		30 <sup>°</sup> 15 <sup>°</sup> 15 <sup>°</sup> 15 <sup>°</sup> 15 <sup>°</sup>
		50°
LED	XP-G4	
FWHM / FWTM	Asymmetric	750 400 77
Efficiency	94 %	
		AN <sup>4</sup>
Peak intensity	1.2 cd/lm	
	1.2 cd/lm 1	
LEDs/each optic		
Peak intensity LEDs/each optic Light colour Required components:	1	
LEDs/each optic Light colour	1	
LEDs/each optic Light colour	1	
LEDs/each optic Light colour	1	
LEDs/each optic Light colour Required components:	1	
LEDs/each optic Light colour Required components:	1	
LEDs/each optic Light colour Required components:	1 White	
LEDs/each optic Light colour Required components:	1 White XP-G4	
LEDs/each optic Light colour Required components:	1 White XP-G4 Asymmetric	
LEDs/each optic Light colour Required components:	1 White XP-G4 Asymmetric 81 %	
LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity	1 White XP-G4 Asymmetric	
LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White XP-G4 Asymmetric 81 % 0.9 cd/lm 1	
LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White XP-G4 Asymmetric 81 % 0.9 cd/lm	
LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White XP-G4 Asymmetric 81 % 0.9 cd/lm 1	
LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White XP-G4 Asymmetric 81 % 0.9 cd/lm 1 White	
LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	1 White XP-G4 Asymmetric 81 % 0.9 cd/lm 1 White	



LED	XT-E	*
FWHM / FWTM	Asymmetric	73% 400 755
Efficiency	90 %	$X \times /// \times X$
Peak intensity	1.2 cd/lm	.60 <sup>4</sup> 900 60 <sup>4</sup>
	1	$\nabla \times / \nabla \times \vee$
LEDs/each optic Light colour	u White	1220
Required components:	White	45* 45*
Required components.		$\times$
		2000
		24bo 130° 115° 0° 15° 30°
		90* 90*
LED	LUXEON 3030 HE Plus	700 770
FWHM / FWTM	Asymmetric	400
Efficiency	79 %	604 600 601
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	$X \times T X X$
Light colour	White	45* 1000 45*
Required components:		120
Protective plate		1400
	z, yidos	1630
		30* 15 <sup>3</sup> 1880 15* 30*
	05	
LED	LUXEON 3030 HE Plus	
LED FWHM / FWTM	LUXEON 3030 HE Plus Asymmetric	
LED FWHM / FWTM Efficiency	LUXEON 3030 HE Plus Asymmetric 93 %	20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White S LUXEON 3535L Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>WIM / COMPARENT</b> Efficiency Peak intensity	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>WIM / COMPARENT</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White S LUXEON 3535L Asymmetric 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>CONTINUES</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White S LUXEON 3535L Asymmetric 93 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>WIM / COMPARENT</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White S LUXEON 3535L Asymmetric 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>CONTINUES</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White S LUXEON 3535L Asymmetric 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>CONTINUES</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 HE Plus Asymmetric 93 % 1.2 cd/lm 1 White S LUXEON 3535L Asymmetric 93 % 1.2 cd/lm 1	



<b>A</b>		
🥙 LUMILEI	DS	90* 90
LED	LUXEON 3535L	200
FWHM / FWTM	Asymmetric	726 72
Efficiency	79 %	
Peak intensity	0.9 cd/lm	50 <sup>4</sup> 600 60
LEDs/each optic	1	80
Light colour	White	45* 1000 45
Required components:		1200
Protective plat	e, glass	1430
		1000 10 <sup>4</sup> 12 <sup>5</sup> 15 <sup>6</sup> 30 <sup>5</sup>
	DS	90° 90°
LED	LUXEON 5050 HE	
FWHM / FWTM	Asymmetric	73° 200 78°
Efficiency	77 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 600
Required components:		
Protective plat		
Fiolective plat	e, glass	1000
		30° 1200 10° 30°
UMILEI	DS Contraction of the second se	90* 90*
LED	LUXEON 5050 HE	200
FWHM / FWTM	Asymmetric	73°
Efficiency	93 %	50 <sup>4</sup>
Peak intensity	0.9 cd/lm	507 600 507
LEDs/each optic	1	30
Light colour	White	45* 1000 45*
Required components:		1200
		1000 30* 13 <sup>5</sup> 18 <sup>6</sup> 0 15* 30*
	DS	
LED	LUXEON 5050 Round LES	
FWHM / FWTM	Asymmetric	73° 200 75
Efficiency	82 %	
	0.7 cd/lm	664 60
	0.7 Cd/lff	
Peak intensity	0.7 co/m 1	60
Peak intensity LEDs/each optic	1	
Peak intensity LEDs/each optic Light colour		00 01 100 00
Peak intensity LEDs/each optic Light colour Required components:	1 White	50 00 C
Peak intensity LEDs/each optic Light colour	1 White	



	DS	90* 99*
LED	LUXEON 5050 Square LES	
FWHM / FWTM	Asymmetric	73° 200 73°
Efficiency	78 %	
Peak intensity	0.7 cd/lm	.50 <sup>%</sup> 400 50*.
LEDs/each optic	1	000
Light colour	White	
Required components:		000000
		1000
Protective plate	e, glass	$\times$
		1230
		30* <u>15</u> * 0° <u>15</u> * 30*
UMILEC	DS	90* 90*
LED	LUXEON 5050 Square LES	
FWHM / FWTM	Asymmetric	73° 70°
Efficiency	60 %	
Peak intensity	0.5 cd/lm	-60 <sup>4</sup> - 60 <sup>4</sup> .
LEDs/each optic	1	$X/(T \setminus X)$
Light colour	White	45" 600 45"
Required components:		
C17580_STRADA-2>	(2-SHD-WHT	
Protective plate	e, glass	30* 1000 30* 30*
	)S	90*
		92. 
	LUXEON 5050 Square LES Asymmetric	9 <sup>4</sup> 7 <sup>5</sup> 20
LED	LUXEON 5050 Square LES	50° 50° 75° 200 75°.
LED FWHM / FWTM Efficiency	LUXEON 5050 Square LES Asymmetric	20 20 60 60 67
LED FWHM / FWTM	LUXEON 5050 Square LES Asymmetric 57 %	20 25 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm	90° 92° 73° 200 72° 60° 60° 65° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1	20 20 50 60 60 60 60 60 60 60 60 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White	5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White	97 99 99 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2>	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-BLK	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2>	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-BLK	60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2>	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-BLK S LUXEON 5050 Square LES	60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2>	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-BLK S LUXEON 5050 Square LES Asymmetric	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2>	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White 22-SHD-BLK S LUXEON 5050 Square LES Asymmetric 49 %	90 90 90 90 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2>	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-BLK S LUXEON 5050 Square LES Asymmetric 49 % 0.5 cd/lm	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> C17677_STRADA	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-BLK S LUXEON 5050 Square LES Asymmetric 49 % 0.5 cd/lm 1	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2>	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-BLK S LUXEON 5050 Square LES Asymmetric 49 % 0.5 cd/lm	9° 10° 10° 10° 10° 10° 10° 10° 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> C17677_STRA	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-BLK S LUXEON 5050 Square LES Asymmetric 49 % 0.5 cd/lm 1 White	9° 10° 10° 10° 10° 10° 10° 10° 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> C17677_STRADA	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-BLK S LUXEON 5050 Square LES Asymmetric 49 % 0.5 cd/lm 1 White	90 90 90 90 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-2> C17677_STRA	LUXEON 5050 Square LES Asymmetric 57 % 0.6 cd/lm 1 White 42-SHD-BLK LUXEON 5050 Square LES Asymmetric 49 % 0.5 cd/lm 1 White K2-SHD-BLK	200 200 200 200 200 200 200 200



	)5	THY KHI
LED	LUXEON HL2X	90° 90
FWHM / FWTM	Asymmetric	779
Efficiency	79%	400 bit
Peak intensity	0.8 cd/lm	600
LEDs/each optic	1	800
Light colour Required components:	White	45* 93
		1200
Protective plat	e, glass	
		30+ 15 <sup>5</sup> 1650 15 <sup>5</sup> 30
	)S	95* 90
LED	LUXEON HL2X	2
FWHM / FWTM	Asymmetric	750 400 75
Efficiency	93 %	$X \times // $
Peak intensity	1.1 cd/lm	60 <sup>14</sup> 800 601
LEDs/each optic	1	$X \times I \times X$
Light colour	White	45* 1220 45
Required components:		
		1630
		30*
	DS	
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
FWHM / FWTM	Asymmetric	75° 400 75'
Efficiency	96 %	
Peak intensity	1 cd/lm	60* 800 69
LEDs/each optic	1	
Light colour	White	451 1220 45
Required components:		
		1600
		20 <sup>4</sup> 2000 30
	)S	
LUMILEI LED FWHM / FWTM	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
LED FWHM / FWTM		30         30           30         30
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric	80* 0* 23*
LED FWHM / FWTM Efficiency	LUXEON XR-HL2X (L2H2-xxxxxxMLU010) Asymmetric 78 %	12 <sup>h</sup> 0 <sup>h</sup> 12 <sup>h</sup> 80 <sup>h</sup> 10 <sup>h</sup> 10 <sup>h</sup>
LED FWHM / FWTM Efficiency Peak intensity	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 78 % 0.6 cd/lm	12 <sup>h</sup> 0 <sup>h</sup> 12 <sup>h</sup> 80 <sup>h</sup> 10 <sup>h</sup> 10 <sup>h</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 78 % 0.6 cd/lm 1	12 <sup>h</sup> 0 <sup>h</sup> 17 <sup>h</sup> 9 <sup>h</sup> 9 <sup>h</sup> 9 <sup>h</sup> 30 <sup>h</sup> 10 <sup>h</sup> 9 <sup>h</sup> 6 <sup>h</sup> 10 <sup>h</sup> 10 <sup>h</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 78 % 0.6 cd/lm 1 White	20 <sup>4</sup> 00 07
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 78 % 0.6 cd/lm 1 White	12 <sup>h</sup> 0 <sup>h</sup> 17 <sup>h</sup> 9 <sup>h</sup> 9 <sup>h</sup> 9 <sup>h</sup> 30 <sup>h</sup> 10 <sup>h</sup> 9 <sup>h</sup> 6 <sup>h</sup> 10 <sup>h</sup> 10 <sup>h</sup>



MST Your solutions		
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	90° 90°
FWHM / FWTM		730 200 750
Efficiency	Asymmetric 80 %	400
Peak intensity	0.8 cd/lm	50 <sup>4</sup> 50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	·67* 1000 45*
Required components:		1200
Protective pla	te, glass	1400
		1600
		30* <u>15*</u> 0* <u>15*</u> 30*
<b>Μ</b> ΝΙCΗΙΛ		50 <sup>1</sup>
LED	NF2x757G	
FWHM / FWTM	Asymmetric	750 200 780
Efficiency	78 %	400
Peak intensity	0.9 cd/lm	50% 600 50*
LEDs/each optic	1	80
Light colour	White	45* 1000 65*
Required components:		
riequired compension		1220
Protective pla	te, glass	1400
		1600
		30° 15° 30°
<b>Μ</b> ΝΙCΗΙΛ		89° 80°
	NF3W585AR	99 <sup>4</sup>
	NF3W585AR Asymmetric	25 400 52
LED		99* 779 409 609
LED FWHM / FWTM	Asymmetric	99* 99 75 00 60* 099 60*
LED FWHM / FWTM Efficiency	Asymmetric 94 %	99° 92° 73° 406 60° 60°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/lm	25 10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1 White	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White	000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White	000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric 95 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric 95 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric 95 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric 95 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric 95 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.1 cd/lm 1 White NV4WB35AM Asymmetric 95 % 1 cd/lm 1 White	



<b>ΜΝΙCΗΙΛ</b>		90* 90*
LED	NVSW519A	
FWHM / FWTM	Asymmetric	75° 200 75°
Efficiency	79%	
Peak intensity	0.6 cd/lm	50 <sup>4</sup> 400 50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	
Required components:	wille	-85° - 65°
required components.		
Protective plate	, glass	1000
		200 1220
<i>A</i>		
<b>ΜΝΙCΗΙΛ</b>		99* 99*
LED	NVSW519A	200
FWHM / FWTM	Asymmetric	100
Efficiency	93 %	
Peak intensity	0.9 cd/lm	. 50 <sup>-</sup>
LEDs/each optic	1	1000
Light colour	White	45* 1220 53*
Required components:		
		1430
		1630
		1600
0000414		133 2000 10*
OSRAM Opto Semiconductors		₽¢* ₽¢*
LED	Duris S8	R
FWHM / FWTM	Asymmetric	73* 200 75*
Efficiency	80 %	X X Have X X
Peak intensity	0.7 cd/lm	50° 60°
LEDs/each optic	1	$\times \times / \wedge \times \times$
Light colour	White	45* 000 45*
Required components:		1000
		1220
Protective plate	, glass	
		1400 30* 15 <sup>1</sup> 0* 15 <sup>4</sup> 30*
OSRAM		
Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (2W version)	735
FWHM / FWTM	Asymmetric	
Efficiency	96 %	. 60 <sup>4</sup>
Peak intensity	1.1 cd/lm	$\times$ / $\uparrow$
LEDs/each optic	1	
Light colour	White	45* 1220 45*
Required components:		
		1600
		2000
		30*



OSRAM		
Opto Semiconductors		90° 90°
	OSCONIQ P 3737 (3W version)	200 73'
FWHM / FWTM	Asymmetric	400
Efficiency	94 %	504 600 504
Peak intensity	1 cd/lm	00
LEDs/each optic	1	1000
Light colour	White	45* 45*
Required components:		1430
		1699
		1000
		30*
OSRAM		14 <sup>3</sup> 3990 15*
Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	200
FWHM / FWTM	Asymmetric	400
Efficiency	79 %	sof 504
Peak intensity	0.8 cd/lm	00
LEDs/each optic	1	200
Light colour	White	45* 45*
Required components:		
Protective plate		1230
FIDIECTIVE Plate	a, glass	1430
		30* 15 <sup>5</sup> 1580 10* 30*
OSRAM Opto Semiconductors		90°
OSRAM Opto Semiconductors LED	OSLON Square CSSRM2/CSSRM3	90°
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3 Asymmetric	10° 70° 200 200 200
Opto Semiconductors LED	OSLON Square CSSRM2/CSSRM3 Asymmetric 57 %	90° 90° 90°
<sup>Opto Semiconductors</sup> LED FWHM / FWTM	Asymmetric	90° 90° 75° 200 75° 60° 60°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 57 %	90° 73° 64° 600 600 600 600
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 57 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 57 % 0.6 cd/lm 1	60° 69°
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 57 % 0.6 cd/lm 1 White	60° 60°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2)	Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT	60° 60°
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT	60° 60°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-22 Protective plate	Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass	60° 69°
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-29 Protective plate <b>PHILIPS</b>	Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT a, glass	60° 60°
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate C17580_LED	Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-WHT a, glass Fortimo FastFlex LED 2x8 DA G4+	60° 69°
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate LED FWHM / FWTM	Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric	60 00 60 00 60 00 100
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate C17580_STRADA-2) Protective plate LED FWHM / FWTM Efficiency	Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 %	60 00 60 00 60 00 100 100 100 100 100 100 100
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity	Asymmetric 57 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % 0.7 cd/lm	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % 0.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % 0.7 cd/lm 1 White	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % 0.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate PHILLIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 57 % 0.6 cd/lm 1 White (2-SHD-WHT e, glass Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 58 % 0.7 cd/lm 1 White	



PHILIPS		
LED	Fortimo FastFlex LED 2x8 DA G4+	
FWHM / FWTM	Asymmetric	750 775
Efficiency	50 %	20
Peak intensity	0.5 cd/lm	.60°
LEDs/each optic	1	400
Light colour	White	45" 500 45".
Required components:		
C17677_STRADA-2>	(2-SHD-BLK	
		700
Protective plate	e, glass	30 <sup>14</sup> 12 <sup>3</sup> 360 12 <sup>4</sup> 30 <sup>4</sup>
PHILIPS		90* 90*
LED	Fortimo FastFlex LED 2x8 DA HE	
FWHM / FWTM	Asymmetric	73°
Efficiency	96 %	XX/+
Peak intensity	0.8 cd/lm	- 50 <sup>4</sup> 600 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45* 1000 45*
Required components:		
		1200
		1400
		1500
		130° 133 <sup>5</sup> 0° 15° 30°
PHILIPS		90* 90*
		50°
LED	Fortimo FastFlex LED 2x8 DA HE	94" 92" 78° 200 72
LED FWHM / FWTM		32°
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 %	90° 90° 73° 90° 72° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA HE Asymmetric	90° 90° 73° 90° 60° 40 60°
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm	90° 90° 70° 800 70° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White	6° 69 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White a, glass	6°* 0°0 0°* 0°*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White s, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White s, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White a, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 0.9 cd/lm 1	6, 100 6, 60 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA HE Asymmetric 79 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 0.9 cd/lm 1	



0.0.0.0.0.0	10	
SAMSUN	NG	30*
LED	HiLOM RH12 Z (LH351C)	200
FWHM / FWTM	Asymmetric	134
Efficiency	80 %	400
Peak intensity	0.8 cd/lm	60* 660 *
LEDs/each optic	1	
Light colour	White	45* 1000 4
Required components:		1230
Protective plat	e, glass	100
0.0.0.0.0.0	10	30° <u>15'</u> 0° <u>15'</u> 3
SAMSUN	N G	90* 90
LED	LH351B	200
FWHM / FWTM	Asymmetric	$\mathbb{N} \longrightarrow \mathbb{N} \longrightarrow \mathbb{N}$
Efficiency	78 %	50 <sup>4</sup>
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	$\times \times / \square \times \times$
Light colour	White	45* 8% 45
Required components:		1000
Protective plat	e diass	1220
		1220
		30° 1400 30° 15° 30
SAMSUN	IG	90* P
LED	LH351C	2
FWHM / FWTM	Asymmetric	75° 77
	Asymmetric 96 %	
Efficiency		54
Efficiency Peak intensity	96 %	50 <sup>4</sup> 00 60
Efficiency Peak intensity LEDs/each optic	96 % 1 cd/lm	20
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 1 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	96 % 1 cd/lm 1	8 <sup>1</sup> 122 0
Efficiency Peak intensity LEDs/each optic Light colour	96 % 1 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	96 % 1 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	96 % 1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	96 % 1 cd/lm 1 White	90 90 100 100 100 100 100 100 10
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency	96 % 1 cd/lm 1 White V Mite LH351D Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity	96 % 1 cd/lm 1 White UH351D Asymmetric 93 %	50 50 120 50 50 50 50 50 50 50 50 50 5
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMS SUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	96 % 1 cd/lm 1 White UH351D Asymmetric 93 % 0.9 cd/lm	5° 122 122 150 150 150 150 150 150 150 150
Efficiency Peak intensity LEDs/each optic Light colour Required components:	96 % 1 cd/m 1 White UH351D Asymmetric 93 % 0.9 cd/lm 1	90 90 100 100 100 100 100 100 10
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	96 % 1 cd/m 1 White UH351D Asymmetric 93 % 0.9 cd/lm 1	er 122 152 152 152 152 152 152 152
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	96 % 1 cd/m 1 White UH351D Asymmetric 93 % 0.9 cd/lm 1	5° 122 6 102 12 102 12 10 10 10 10 10 10 10 10 10 10
Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMS SUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	96 % 1 cd/m 1 White UH351D Asymmetric 93 % 0.9 cd/lm 1	90 90 100 100 100 100 100 100 10



SAMSU	IG	20*	YFF
LED	LH351D		Q
FWHM / FWTM	Asymmetric	73*	200
Efficiency	78 %		
Peak intensity	0.6 cd/lm	*64.	
LEDs/each optic	1		600
Light colour	White	45	A 800
Required components:			
Protective pla	e, glass	$\sum I$	1000
		39° <u>59'</u>	0° 15°
SAMSUI	IG	90*	YAM
LED	LH502D		200
FWHM / FWTM	Asymmetric	72*	400
Efficiency	93 %	50*	
Peak intensity	0.9 cd/lm		
LEDs/each optic	1	$\times$	800
Light colour	White	45*	1000
Required components:		$\langle \cdot \rangle$	1230
		$\checkmark$	1430
		X	1600
		30* 233	100 150
SAMSUI	IG		YFT
LED	LH502D	<i>N</i>	
FWHM / FWTM	Asymmetric	750	200
Efficiency	77 %		
Peak intensity	0.6 cd/lm	. 50*	400
LEDs/each optic	4		$\int \int X$
Linkt and a v	1		
Light colour	1 White		600
Light colour Required components:		67	800
Required components:	White		800
	White		000
Required components:	White	45°	500 3000 1200 00 1270 00 130
Required components: Protective pla	White	45° 30° <u>15</u> °	50 50 1000 1000 1000 1000 1000 1000 100
Required components: Protective plat	White	6° 30° 50°	
Required components: Protective plat	White , glass MJT 5050	5° 	00 00 100 100 100 100 100 100
Required components: Protective plat second semiconductor LED FWHM / FWTM	White , glass MJT 5050 Asymmetric	55' 35' 35' 35' 35' 35'	
Required components: Protective plat Protective plat SEGUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	White a, glass MJT 5050 Asymmetric 93 %	9° 9° 9°	2
Required components: Protective pla	White , glass MJT 5050 Asymmetric	97 99 99 90	20
Required components: Protective plat scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	White a, glass MJT 5050 Asymmetric 93 % 0.8 cd/lm	97 94 94 94	200 200 40 60 60
Required components: Protective plat store store sto	White a, glass MJT 5050 Asymmetric 93 % 0.8 cd/lm 1	5°. 30° 30° 50°	200
Required components: Protective plat stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White a, glass MJT 5050 Asymmetric 93 % 0.8 cd/lm 1		200 200 40 60 60
Required components: Protective plat stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White a, glass MJT 5050 Asymmetric 93 % 0.8 cd/lm 1		20 20 20 60 60 60 100



SEOUL		THY FAI
SEOUL SEMICONDUCTOR	SEOUL DC 3030C	90° s
FWHM / FWTM		750 400
	Asymmetric	
Efficiency	93 %	504 800
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	1200
Light colour	White	45*
Required components:		1600
		200
		30* <u>200</u> 0* 10* 3
SEOUL		35 <sup>3</sup> 35 <sup>5</sup> 15 <sup>5</sup>
SEOUL SEMICONDUCTOR		90*
LED	SEOUL DC 3030C	200
FWHM / FWTM	Asymmetric	750
Efficiency	79 %	
Peak intensity	0.9 cd/lm	50° 600 6
LEDs/each optic	1	80
Light colour	White	45+ 1000
Required components:		1200
		1490
Protective plate	, glass	
		1000 30° 13 <sup>5</sup> 1880 15°
SEQUE SEQUE SEMICONDUCTOR		12 <sup>5</sup> 1800 15 <sup>4</sup>
LED	SEOUL DC 5050 6V	
FWHM / FWTM	Asymmetric	
Efficiency	93 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
SEOUL		THY KHI
seoul semiconductor	Z5M3	90*
LED FWHM / FWTM		778 200
	Asymmetric 77 %	40
Efficiency		50"
Peak intensity	0.8 cd/lm	60
LEDs/each optic	1 White	80
Light colour	White	45* 1000
Required components:		
Protective plate	diass	1200
i loteotive plate	, 9000	1400
		30* 15 <sup>5</sup> 1890 15*
		15' 160 15*



SEOUL		
LED	Z5M4	
FWHM / FWTM	Asymmetric	73" 000 787.
Efficiency	96 %	
Peak intensity	1.1 cd/lm	60 <sup>4</sup> 60
LEDs/each optic	1	
Light colour	White	47 <u>120</u> 47
Required component	ts:	
		300
		30" 30"
		22 <sup>3</sup> 23 <sup>3</sup> 23 <sup>3</sup> 2



#### **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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