

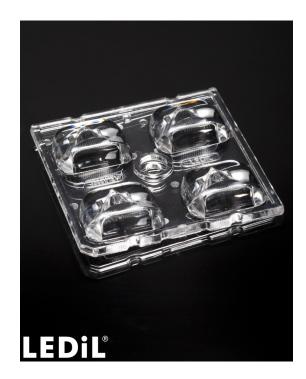
# PRODUCT DATASHEET C13299\_STRADA-2X2-ME

# STRADA-2X2-ME

Beam with excellent longitudinal luminance uniformity fulfilling EN13201 M-class requirements where road width is equal to or less the pole height

#### **TECHNICAL SPECIFICATIONS:**

Dimensions Height Fastening ROHS compliant 50.0 x 50.0 mm 7.1 mm glue, pin, screw yes 1



#### **MATERIAL SPECIFICATIONS:**

Component STRADA-2X2-ME

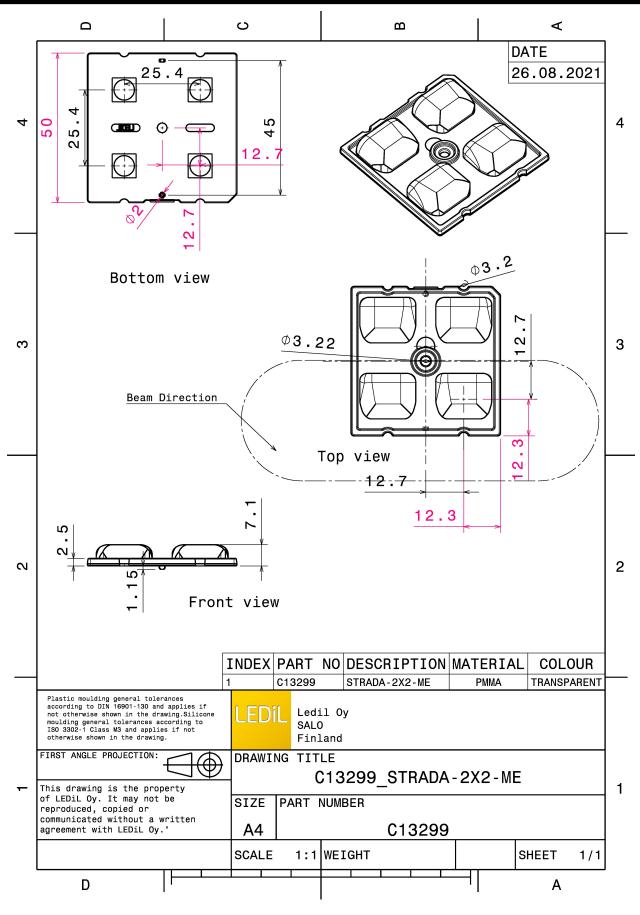
**Type** Multi-lens

Material	Colour	Finish
PMMA	clear	

#### **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13299_STRADA-2X2-ME	800	160	160	7.9
» Box size: 480 x 280 x 300 mm				

# PRODUCT DATASHEET C13299\_STRADA-2X2-ME



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



bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Bridgelux SMD 5050 Asymmetric 94 % 0.5 cd/lm 1 White tts:	20- 12- 10- 10- 10- 10- 10- 10- 10- 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x4 xxx LS G5 Asymmetric 94 % 0.9 cd/lm 1 White hts:	9 <sup>3</sup> 33 6 <sup>3</sup> 6 <sup>3</sup> 6 <sup>3</sup> 6 <sup>3</sup> 6 <sup>3</sup> 6 <sup>3</sup> 6 <sup>3</sup>
		000 20 <sup>4</sup> 0 <sup>20</sup> 20 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x6 xxx LS G5 Asymmetric 94 % 0.9 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x8 xxx LS G5 Asymmetric 94 % 0.9 cd/lm 1 White hts:	50° (0° (0° (0° (0° (0° (0° (0° (0° (0° (



		90* 90*
LED	XB-D White	3
FWHM / FWTM	Asymmetric	75%
Efficiency	94 %	
Peak intensity	1.2 cd/lm	.60 <sup>4</sup> 300 60 <sup>4</sup>
LEDs/each optic	1	400
Light colour	White	45° 000 6°
Required compone		
		700
		800
		130° 15° 30° 30° 30°
		90* 90*
LED	XD16	100
FWHM / FWTM	Asymmetric	730
Efficiency	94 %	
Peak intensity	1.1 cd/lm	300
LEDs/each optic	1	400
Light colour	White	-5° 500 5°
Required compone	ts:	
		700
		30° 800 30°
		90* 90*
LED	XD16	25* 100 75*
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60* 200 64
Peak intensity	0.6 cd/lm 4	
LEDs/each optic		
Light colour		
Light colour	White	50 - OF
Light colour Required component	White	ie: 60 07
	White	20 
	White	60 60 60 60
	White	20° 12° 0° 12° 20°
Required component	White ts:	200 500 600
Required component	White ts:	60 500 500
Required component	White ts: XM-L	200 500 600
Required component	White ts: XM-L Asymmetric	91° 55° 6° 75° 8°
Required component	White ts: XM-L Asymmetric 94 %	91° 55° 6° 75° 8°
Required component	White ts: XM-L Asymmetric	91° 55° 6° 75° 8°
Required component CREE COMPONENT LED FWHM / FWTM Efficiency Peak intensity	White ts: XM-L Asymmetric 94 % 0.7 cd/lm	90 90 90 90 90 90 90 90 90 90 90 90 90 9
Required component CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White ts: XM-L Asymmetric 94 % 0.7 cd/lm 1 White	
Required component CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White ts: XM-L Asymmetric 94 % 0.7 cd/lm 1 White	
Required component CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White ts: XM-L Asymmetric 94 % 0.7 cd/lm 1 White	
Required component CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White ts: XM-L Asymmetric 94 % 0.7 cd/lm 1 White	



		90* 90*
LED	XM-L2	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	30
Light colour	White	5. A A
Required compone	nts:	
		50°
LED	XM-L3	90°
FWHM / FWTM	Asymmetric	756 100 78°
Efficiency	97 %	
Peak intensity	0.8 cd/lm	904
LEDs/each optic	1	
Light colour	White	400
Required component		
		600
		700
		30° 800 30° 15° 30°
		90°
	ХР-Е2	82
		21 21 21 21 21 21 21 21 21 21 21 21 21 2
LED	XP-E2	
LED FWHM / FWTM	XP-E2 Asymmetric	
LED FWHM / FWTM Efficiency	XP-E2 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	XP-E2 Asymmetric 94 % 1.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White nts:	00 30* 10 <sup>*</sup> 10 <sup>*</sup> 30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White Ints: XP-G	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED LED FWHM / FWTM	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White nts: XP-G Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White nts: XP-G Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White nts: XP-G Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White nts: XP-G Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White nts: XP-G Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White nts: XP-G Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White nts: XP-G Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-E2 Asymmetric 94 % 1.3 cd/lm 1 White nts: XP-G Asymmetric 94 % 1 cd/lm 1 White	



		90° 90°
LED	XP-G2	3
FWHM / FWTM	Asymmetric	750 100 750
Efficiency	94 %	
Peak intensity	1.1 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45*
Required component		X T *** T X
		700
		90° 000 90° 90° 90°
		90° 90°
LED	XP-G3	100
FWHM / FWTM	Asymmetric	734
Efficiency	94 %	
Peak intensity	0.9 cd/lm	50° 300 60°.
LEDs/each optic	1	40
Light colour	White	45° 550 45°
Required compone	nts:	
		600
		710
		300 300
	_	
	XP-G3	<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
		99 <sup>4</sup> 200 200 200 200
LED	XP-G3	
LED FWHM / FWTM	XP-G3 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G3 Asymmetric 88 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts:	300 - 70°. 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White	300 - 70°. 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts:	300 - 70°. 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts:	300 - 70°. 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: IA-2X2-SHD-WHT	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: IA-2X2-SHD-WHT	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 % 0.8 cd/lm 1 White nts:	



r		
		90*
LED	 XP-L HD	
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60* 66*
LEDs/each optic	1	
Light colour	White	45* 400 437
Required compone		500
		600
		mo
		30° 135° 30°
	1	90* 90*
LED	XP-L HI	7100
FWHM / FWTM	Asymmetric	23.0 /20.
Efficiency	94 %	
Peak intensity	1 cd/lm	X X X
LEDs/each optic	1	
Light colour	White	6° 6°
Required compone	nts:	50
		30° 30°
		90° 90°
LED	XP-L2	251 100 251
FWHM / FWTM	Asymmetric	
Efficiency	94 %	00* 00* 69*
Peak intensity	0.6 cd/lm	30
LEDs/each optic	1	$X \times / T \setminus X \times$
Light colour	White	45* 400 45*
Required component	1fS:	500
		X/T/X
		00
		30* 15 <sup>5</sup> 26 15* 30*
LED	XT-E	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	1 cd/lm	60* 300 60*
LEDs/each optic	1	
Light colour	White	-6° - 00 - 65°
Required compone		600
		NN/TIX
		740
		100



		90 <sup>+</sup>
LED	EHP-2x8-3535	3
FWHM / FWTM	Asymmetric	75*
Efficiency	97 %	220
Peak intensity	0.9 cd/lm	.60%
LEDs/each optic	1	$ X \times     X \times  $
Light colour	White	40
Required compone		45* 500
Required compone	115.	
		30° 25° 0° 15°
		90*
LED	EHP-2x8-5050	5
FWHM / FWTM	Asymmetric	75* 100
Efficiency	97 %	200
Peak intensity	0.5 cd/lm	.60*
LEDs/each optic	1	
Light colour	White	45° 400
Required compone	nts:	$X \times I \times X$
		200
		000
		30 <sup>-</sup> 135 <sup>5</sup> 700 15 <sup>6</sup>
UMIL	EDS	20 <sup>4</sup> 25 <sup>3</sup> 709 15 <sup>4</sup>
	LUXEON 5050 Round LES	
LED		
LED FWHM / FWTM Efficiency	LUXEON 5050 Round LES Asymmetric	
LED FWHM / FWTM	LUXEON 5050 Round LES Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White Its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White nts: EDS LUXEON MZ Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MUMIL LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone With compone Equired compone Equired compone Compone Equired compone	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White nts: EDS LUXEON MZ Asymmetric 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Required component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White nts: EDS LUXEON MZ Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone With compone Equired compone Equired compone Compone Equired compone	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White nts: EDS LUXEON MZ Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Required component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White nts: EDS LUXEON MZ Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Required component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White nts: EDS LUXEON MZ Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Equired component Component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.6 cd/lm 1 White nts: EDS LUXEON MZ Asymmetric 94 % 0.7 cd/lm 1 White	



🙆 LUMIL	EDS	90* 0v*
LED	LUXEON Q	3
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	he he
Peak intensity	1 cd/lm	60 <sup>4</sup> 3% 65 <sup>4</sup>
LEDs/each optic	1	400
Light colour	White	-55 550 551
Required compone		
		700
		810
		30* 30* 30*
UMIL	EDS	90° 90°
LED	LUXEON R	
FWHM / FWTM	Asymmetric	730 700 700
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	400
Light colour	White	-6°
Required compone	nts:	640
		800
		30° 30° 30° 30° 30°
	EDS	50°
	EDS LUXEON Rebel ES	8.
		91 <sup>4</sup> 75 <sup>4</sup> 75 <sup>4</sup>
LED	LUXEON Rebel ES	94 79 70 70 70 70 70 70
LED FWHM / FWTM	LUXEON Rebel ES Asymmetric	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency	LUXEON Rebel ES Asymmetric 94 %	90° 73 60° 60°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm	97 75 66 67 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	90° 73° 63° 65° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	92 <sup>4</sup> 53 <sup>4</sup> 63 <sup>4</sup> 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	92° 13° 13° 10° 10° 10° 10° 10° 10° 10° 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	50° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White Ints:	80° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White Ints:	80° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White Ints:	80° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/m 1 White nts: EDS LUXEON T Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White Ints: EDS LUXEON T Asymmetric 94 % 1 cd/lm	00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White nts: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White nts: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White nts: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White nts: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	



🕙 LUMIL	EDS	90* 90*
LED	LUXEON TX	3
FWHM / FWTM	Asymmetric	78°
Efficiency	94 %	200
Peak intensity	1 cd/lm	160°
LEDs/each optic	1	
Light colour	White	400
Required compone	nts:	200
		300 300
	EDC	13° and 13°
		90* 90*
LED	LUXEON V	100
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60*
Peak intensity	0.7 cd/lm	× / 20
LEDs/each optic	1	400
Light colour	White	6°
Required compone	nts:	
		30° 15° 0° 15° 30°
	EDS	
LED	LUXEON V2	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Efficiency Peak intensity	94 %	50 <sup>4</sup> 300 67
Peak intensity		60°
Peak intensity LEDs/each optic	94 % 0.9 cd/lm	60
Peak intensity LEDs/each optic	94 % 0.9 cd/lm 1 White	60
Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White	60
Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White	64 - 50 - 60 - 60 - 60 - 60 - 60 - 60 - 60 - 6
Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required component	94 % 0.9 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required componer	94 % 0.9 cd/lm 1 White hts:	
Peak intensity LEDs/each optic Light colour Required componer	94 % 0.9 cd/lm 1 White hts: EDS LUXEON Z ES	
Peak intensity LEDs/each optic Light colour Required componer	94 % 0.9 cd/m 1 White hts: EDS LUXEON Z ES Asymmetric	
Peak intensity LEDs/each optic Light colour Required componer	94 % 0.9 cd/m 1 White nts: EDS LUXEON Z ES Asymmetric 94 %	
Peak intensity LEDs/each optic Light colour Required component Model of the second sec	94 % 0.9 cd/m 1 White hts: EDS LUXEON Z ES Asymmetric 94 % 1.4 cd/m	
Peak intensity LEDs/each optic Light colour Required component <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Co</b>	94 % 0.9 cd/m 1 White hts: EDS LUXEON Z ES Asymmetric 94 % 1.4 cd/m 1	
Peak intensity LEDs/each optic Light colour Required component Composition Required component Required component Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/m 1 White TS: EDS LUXEON Z ES Asymmetric 94 % 1.4 cd/m 1 White	
Peak intensity LEDs/each optic Light colour Required component Composition Education Education FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/m 1 White TS: EDS LUXEON Z ES Asymmetric 94 % 1.4 cd/m 1 White	
Peak intensity LEDs/each optic Light colour Required component <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Composed</b> <b>Co</b>	94 % 0.9 cd/m 1 White TS: EDS LUXEON Z ES Asymmetric 94 % 1.4 cd/m 1 White	
Peak intensity LEDs/each optic Light colour Required component Composition Required component Required component Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/m 1 White TS: EDS LUXEON Z ES Asymmetric 94 % 1.4 cd/m 1 White	200 200 700 201 201 201 201 201 201 201 201 201 2



MST Your solut	ions	90 <sup>+</sup>
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	75* (100 75*
Efficiency	97 %	200
Peak intensity	0.9 cd/lm	60%
LEDs/each optic	1	
Light colour	White	400 45*
Required compone		
		600
		710
		(30° 135 <sup>5</sup> 0° 15° 30°
		30*
LED	NS9x383	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.6 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	400 45°
Required compone	nts:	50
		600
		30° 700 30°
MNICHIA		THY EFT
		8°
LED	NVSW219D	24 <sup>4</sup> 250
LED FWHM / FWTM	NVSW219D Asymmetric	81 <sup>4</sup> 10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency	NVSW219D Asymmetric 86 %	
LED FWHM / FWTM Efficiency Peak intensity	NVSW219D Asymmetric 86 % 0.6 cd/lm	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW219D Asymmetric 86 % 0.6 cd/lm 1	61 <sup>4</sup> 200 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White	61 <sup>4</sup> 200 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White	61 <sup>4</sup> 200 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White	61 <sup>4</sup> 200 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts:	61 <sup>4</sup> 200 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts: NVSW219D Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts: NVSW219D Asymmetric 94 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts: NVSW219D Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts: NVSW219D Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts: NVSW219D Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts: NVSW219D Asymmetric 94 % 0.8 cd/lm 1 White	



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<b>∕∕</b> NICHI∕		50* 90*
LED	NVSW219F	3
FWHM / FWTM	Asymmetric	73*
Efficiency	94 %	200
Peak intensity	0.9 cd/lm	50 <sup>4</sup> 300 50 <sup>4</sup>
LEDs/each optic	1	$X \times T X X$
Light colour	White	400 45%
Required compone	nts:	200
		700
		3 <sup>1</sup> 43 <sup>2</sup> 0 <sup>0</sup> 13 <sup>2</sup> 3 <sup>1</sup>
<b>∕∕</b> NICHI∕		90° 90°
LED	NVSW219F	3
FWHM / FWTM	Asymmetric	780 200 752
Efficiency	97 %	200
Peak intensity	0.9 cd/lm	, S1 <sup>4</sup> 340 50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	457 400
Required compone	nts:	
		640
		700
<i>(</i> )		19
ØNICHI∕		90* 90*
LED	NVSW319B	7 200
FWHM / FWTM	Asymmetric	700 770
Efficiency	94 %	
Peak intensity	0.8 cd/lm	. b <sup>0</sup>
LEDs/each optic	1	× / 400
Light colour	White	.67
Required compone	nts:	500
		600
		740
		30° 17° 30°
<b>ØNICHI</b>		90* 90*
LED	NVSW3x9A	200
FWHM / FWTM	Asymmetric	
Efficiency	94 %	Eur Est
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	451 451
Required compone	nts:	
		60
		X THO
		30* 35 <sup>3</sup> 80 15* 30*
		15 8% 15



<u> </u>		
ØNICHI∕	N Contraction of the second seco	50° 50°
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	75' 75'
Efficiency	94 %	the second secon
Peak intensity	0.9 cd/lm	60°
LEDs/each optic	1	400
Light colour	White	451 451
Required compone	ents:	500
		600
		710
		302 800 20*
~		235 00 125*
ØNICHI/	N Contraction of the second seco	90* 90*
LED	NWSx229A	4
FWHM / FWTM	Asymmetric	750 700 782
Efficiency	94 %	
Peak intensity	0.6 cd/lm	NO. 00.
LEDs/each optic	1	
Light colour	White	45+ 440 45 <sup>+</sup>
Required compone	ents:	
		60
		30° 112 300 110° 30°
OCDAN	A	
OSRAN		50,0
LED	PL-BRICK HP 3800 2x8 SSG	50° 50° 70° 70° 70° 70° 70° 70° 70° 70° 70° 7
LED FWHM / FWTM	PL-BRICK HP 3800 2x8 SSG Asymmetric	92 <sup>3</sup> 210 92 <sup>3</sup>
LED FWHM / FWTM Efficiency	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 %	90°
LED FWHM / FWTM Efficiency Peak intensity	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm	6,4 7,2 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0 7,0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/Im 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White	90° 90° 72° 100 90° 60° 20° 60° 20° 70° 40° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White	6,07 200 607
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	6,07 200 607
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents: PrevaLED Brick HP 2x8 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents: PrevaLED Brick HP 2x8 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>OSRAN</b> LED FWHM / FWTM Efficiency Peak intensity	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents: PrevaLED Brick HP 2x8 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>OSRAN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents: PrevaLED Brick HP 2x8 Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	



OSRAM Opto Semiconductors		90* 90*
LED	Duris S8	
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60* 200 6.*
LEDs/each optic	1	× /
Light colour	White	
Required componer		400
		000
		30° <u>15°</u> 0° <u>15°</u>
OSRAM		
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	90° 90°
EED FWHM / FWTM	Asymmetric	770 200 770
Efficiency	94 %	
Peak intensity	1 cd/lm	50* 60*
LEDs/each optic	1	*
Light colour	' White	45* 400 6**
Required componer		
		00
		700
		30°
(		
OSRAM		
Opto Semiconductors		90° 90°
Opto Semiconductors	OSLON Square PC	
opto Semiconductors LED FWHM / FWTM	Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 1 cd/lm 1 White nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 1 cd/lm 1 White nts:	70 70 70 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 1 cd/lm 1 White nts:	70 70 70 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 1 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G4	70 70 70 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component PHILLIP LED FWHM / FWTM	Asymmetric 94 % 1 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric	50 00 10 10 10 10 10 10 10 10 1
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component ED FWHM / FWTM Efficiency	Asymmetric 94 % 1 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 %	50 00 70 70 10 10 10 10 10 10 10 10 10 10 10 10 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component ED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm 1 White nts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.1 cd/lm	50 60 70 70 52 60 10 10 10 10 10 10 10 10 10 1
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts:	50 60 70 70 52 60 10 10 10 10 10 10 10 10 10 1
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts:	



PHILIF	S	
LED	Fortimo FastFlex LED 2x8 DA G4+	
FWHM / FWTM	Asymmetric	750 100 75
Efficiency	94 %	200
Peak intensity	0.8 cd/lm	60*
LEDs/each optic	1	
Light colour	White	45° 400 45
Required compone	nts:	
		600
		700
		3° 15' 0° 15' 30
PHILIP	25	90
LED	Fortimo FastFlex LED 2x8 DA G5	
FWHM / FWTM	Asymmetric	75
Efficiency	97 %	60 <sup>4</sup>
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45
Required compone	nts:	500
		30° 30
<u> </u> <b> </b>		
		90* 99
LED	HiLOM RC12 Z (LH181B)	
FWHM / FWTM	Asymmetric	
Efficiency	99 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	600
Light colour	White	45* 45
Required compose		$\times$ / $\times$
Required compone	its:	300
oquiroù oompone	nts:	
	nts:	
	nts:	30 <sup>4</sup> 12 <sup>5</sup> 0 <sup>4</sup> 13 <sup>4</sup> 30
		30° 1000 1000 1000
<u> </u> <u> </u> <u> </u> S <u> </u> M S I	ING	50° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1
<b>SAMSU</b> LED	HILOM RH12 Z (LH351C)	54° 155° 250 750° 157° 250 750° 157° 250 750° 157° 250 750° 157° 250 750° 157° 250° 250° 250° 250° 250° 250° 250° 250
SAMSU LED FWHM / FWTM	HILOM RH12 Z (LH351C) Asymmetric	200 200 200 200 200 200 200 200
SAMSU LED FWHM / FWTM Efficiency	HiLOM RH12 Z (LH351C) Asymmetric 97 %	
<b>SAMSU</b> LED FWHM / FWTM Efficiency Peak intensity	HiLOM RH12 Z (LH351C) Asymmetric 97 % 0.8 cd/m	
<b>SAMSU</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH12 Z (LH351C) Asymmetric 97 % 0.8 cd/lm 1	
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH12 Z (LH351C) Asymmetric 97 % 0.8 cd/m 1 White	65° 1039 1039 28° 103 29° 103 1039 1039 1039 1039 1039 1039 1039 1
<b>SAMSU</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH12 Z (LH351C) Asymmetric 97 % 0.8 cd/m 1 White	
<b>SAMSU</b> LED FWHM / FWTM Efficiency Peak intensity	HiLOM RH12 Z (LH351C) Asymmetric 97 % 0.8 cd/m 1 White	
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH12 Z (LH351C) Asymmetric 97 % 0.8 cd/m 1 White	



0.0.0.0.		
<b>S</b> ΛΜS	JNG	59° 50°
		710 710
LED	HiLOM RH16 (LH351C)	
FWHM / FWTM	Asymmetric	50° 200 60°.
Efficiency	%	
LEDs/each optic Light colour	1 White	
Required compone		- CC * 400 - CC * .
		50
		600
		30° 13° 30°
SAMSI	JNG	50° 50°
LED	HiLOM RM12 Z (LH502C)	4
FWHM / FWTM	Asymmetric	75° 100 75°
Efficiency	97 %	200
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 40 45*
Required compone	ints:	
		500
		600
		30° 30°
		VV
SAMSI	JNG	
		10° 10° 10°
SAMSU	JNG HiLOM RM16 Z (LH502C) Asymmetric	99° 39° 39°
LED	HiLOM RM16 Z (LH502C)	
LED FWHM / FWTM	HiLOM RM16 Z (LH502C) Asymmetric	
LED FWHM / FWTM Efficiency	HiLOM RM16 Z (LH502C) Asymmetric 99 %	20 00 00 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	- 40 56 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	50
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 99 % 0.6 cd/lm 1 White ents:	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	
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 99 % 0.6 cd/lm 1 White ents:	
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 99 % 0.6 cd/lm 1 White ents:	
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 99 % 0.6 cd/lm 1 White ents:	



SΛMSι	JNG	90* 90*
LED	LH351B	~
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	300
Light colour	White	45*
Required compone		400
		500
		6/0
		30° 13 <sup>2</sup> 0° 15° 30°
SΛMSι	JNG	50°
LED	LH351C	3
FWHM / FWTM	Asymmetric	73* 100 73*
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60°
LEDs/each optic	1	
Light colour	White	45° 45*
Required compone	nts:	400
		500
		800
		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup>
SAMSU	JNG	50* 50*
	JNG LH351D	8°
		gr <sup>3</sup> 20 20 20
LED	LH351D	50° 50° 20° 700 70°
LED FWHM / FWTM	LH351D Asymmetric	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency	LH351D Asymmetric 94 %	20 20 20 20 20 20 20 00 00
LED FWHM / FWTM Efficiency Peak intensity	LH351D Asymmetric 94 % 0.6 cd/lm	5° - 5° 20 - 10° 6° - 30° - 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 94 % 0.6 cd/lm 1 White	5° 99 100 6° 00 6° 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White	5° - 90 20 - 100 6° - 0° 6° - 0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	5° 0° 5° 6° 0° 0° 6° 0° 0° 6° 0° 0° 8° 0° 0° 8° 0° 0° 8° 0° 0° 8° 0° 0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351D Asymmetric 94 % 0.6 cd/lm 1 White Its:	21- 20- 20- 20- 20- 20- 20- 20- 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	LH351D Asymmetric 94 % 0.6 cd/lm 1 White Its SING LH508A Asymmetric 94 %	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	LH351D Asymmetric 94 % 0.6 cd/lm 1 White Its:	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 94 % 0.6 cd/lm 1 White Its SING LH508A Asymmetric 94 %	500 500 500 500 500 500 500 500 500 500
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	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	60 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	60 50 50 50 50 50 50 50 50 50 5
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	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	60 50 50 50 50 50 50 50 50 50 5



Elektronik GmbH		90* 90*
LED	LED-Pa-L15c2W11c2-xxx-C050-01	3
FWHM / FWTM	Asymmetric	75*
Efficiency	98 %	
Peak intensity	1 cd/lm	504 507
LEDs/each optic	1	
Light colour	White	40
Required compone		45*
Required compone	115.	600
		$\mathbf{X}$
		30* 800 30* 30*
SEOUL		THY YHT
SEOUL SEMICONDUCTOR		90* 90*
LED	Acrich MJT 4040	100
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	400
Light colour	White	45* 540 45*
Required compone	nts:	
		600
		700
		an <sup>a</sup> 800 an
		15° 0° 15°
		90* 90*
SEOUL SEMICONDUCTOR	Z5M	90°
seoul semiconductor	Z5M Asymmetric	90°
seoul semiconductor LED FWHM / FWTM	Asymmetric	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 94 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	20 00 70 70
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul stanconductor	Asymmetric 94 % 1 cd/lm 1 White nts:	20 00 70 70
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul stanconductor LED	Asymmetric 94 % 1 cd/lm 1 White nts: Z5M1/Z5M2	20 00 70 00 00 00
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconductor LED FWHM / FWTM	Asymmetric 94 % 1 cd/lm 1 White nts: Z5M1/Z5M2 Asymmetric	50 50 70 70 70 70 70 70 70 70 70 7
seoul staticonductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seoul staticonductor LED FWHM / FWTM Efficiency	Asymmetric 94 % 1 cd/lm 1 White nts: Z5M1/Z5M2 Asymmetric 94 %	50 60 70 30 20 20 50 50 50 50 50 50 50 50 50 50 50 50 50
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm 1 White nts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm	50 60 70 70 70 70 70 70 70 70 70 70 70 70 70
stour semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stour semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White nts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm 1	50 60 70 70 70 70 70 70 70 70 70 70 70 70 70
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm 1 White	50 60 70 70 70 70 70 70 70 70 70 70 70 70 70
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm 1 White	50 60 70 70 70 70 70 70 70 70 70 70 70 70 70
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm 1 White	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm 1 White	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul stanconductor LED	Asymmetric 94 % 1 cd/lm 1 White nts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm 1 White	200 000 000 000 000 000 000 000



SEOUL		
SEOUL SEMICONDUCTOR	Z5M3	90* 90*
EED FWHM / FWTM	Asymmetric	770 100 770
Efficiency	94 %	
Peak intensity	94 % 0.8 cd/lm	80° 60°
	1	
LEDs/each optic	1 White	400
Light colour Required compone		- 65° - 500 - 65°
Required compone	113.	
		700
		30° 15° 30°
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z5M4	200 724
FWHM / FWTM	Asymmetric	
Efficiency	97 %	50* 200 50*
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required compone	nts:	500
		600
		30° 700 30° 30°
SEQUE		
SEOUL SEMICONDUCTOR		90* 90*
	Z5P	9°
SEOUL SEMICONDUCTOR	Z5P Asymmetric	9/* 75* 0000000000000000000000000000000000
SEOUL SEMICONDUCTOR		90°
seoul semiconductor LED FWHM / FWTM	Asymmetric	90 <sup>4</sup> 73 60 <sup>4</sup> 60
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 %	92* 73* 04* 00*
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White	
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
stour stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White	
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White	
stour stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White nts:	
sEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White Ints:	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seoul semiconductor LED FWHM / FWTM	Asymmetric 94 % 1 cd/lm 1 White nts: Z8Y22 Asymmetric	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency	Asymmetric 94 % 1 cd/lm 1 White nts: Z8Y22 Asymmetric 94 %	
seous semiconbuctore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconbuctore LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 1 cd/lm	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 1 cd/lm 1 White	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 1 cd/lm 1 White	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 1 cd/lm 1 White	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 1 cd/lm 1 White	



SEOUL		
SEOUL SEMICONDUCTOR	70//000	81
LED	Z8Y22P	29
FWHM / FWTM	Asymmetric	
Efficiency	94 %	507
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	6* 30
Required compone	ents:	
		76
		30° 10° 0° 10°
TOSHIBA		
Leading Innovation >>>		814
LED	TL1L3	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	6.
Required compone	ents:	
		***
		30* 60
TOCUUDA		
TOSHIBA Leading Innovation >>>		90
LED	TL1L4	
FWHM / FWTM	Asymmetric	.78 500
Efficiency	91 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	401
Required compone	ents:	
		60
		200
		22 <sup>3</sup> 860 15 <sup>4</sup>
TRIDON		
LED	RLE 2x4 2000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		



TDIDON		
TRIDON		90° 90°
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60°
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	400
Light colour	White	a <sup>1</sup> a <sup>1</sup>
Required compone	its:	660
		$\times$ / $\times$
		200
		30* 13 <sup>5</sup> 0° 15* 30*
TRIDON		
		90* 90*
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	75*
FWHM / FWTM	Asymmetric	200
Efficiency	94 %	60%
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	$\times$ / $\square$ $\times$
Light colour	White	(6°, 63,
Required compone	115.	600
		$\times$ / $\setminus$ $\times$
		800
		30° 15° 30°
TRIDON		
		90* 90*
	RLE G1 49x133mm 2000lm xxx EXC OTD	75*
FWHM / FWTM	Asymmetric 94 %	400
Efficiency Peak intensity	34 % 1.1 cd/lm	60*
LEDs/each optic	1	800
Light colour	White	
Required compone		(9) (9)
Required compone	ιυ.	1200
		$\times$
		1600
1		(30° 13° 30° 15°
TRIDON		
	RLE G1 49x223mm 4000lm xxx EXC OTD	90° 90°
LED		
		781 - 781
FWHM / FWTM	Asymmetric	200 72.
FWHM / FWTM Efficiency	Asymmetric 94 %	20 72. 61 <sup>5</sup> 60 <sup>4</sup>
FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/m	20 72 W <sup>4</sup> 60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1	200 - 200 60 <sup>4</sup> - 60 60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/m 1 White	200 - 200 014 - 60 65 - 67
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/m 1 White	20 51 <sup>5</sup> 60 60 60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/m 1 White	20 6)* 6)* 6)* 6)* 6)* 6)* 60* 60* 60* 60* 60* 60* 60* 60*
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/m 1 White	20 60 60 60 60 60 60 60 60 60 60 60 60 60

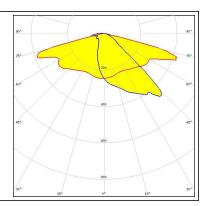


# **TRIDONIC**

LED

FWHM / FWTM As Efficiency 94 Peak intensity 1. LEDs/each optic 1 Light colour W Required components:

RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White





r		
LED	J Series 5050 Round LES	
FWHM / FWTM	Asymmetric	75°
Efficiency	80 %	
Peak intensity	0.4 cd/lm	50° 60°
LEDs/each optic	1	$X \longrightarrow X$
Light colour	White	6°
Required components:		400
Protective plate	dass	
		× ~ ~ ×
		30* 15 <sup>2</sup> 66 15* 30*
		907
LED	J Series 5050 Round LES	7
FWHM / FWTM	Asymmetric	73* 200 77*
Efficiency	94 %	too
Peak intensity	0.6 cd/lm	50 <sup>4</sup> 60*
LEDs/each optic	1	
Light colour	White	400
Required components:		
		X/T/X
		700
		30 <sup>4</sup> 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>6</sup> 30 <sup>4</sup>
		90* 90*
LED	XB-H	75°
FWHM / FWTM	Asymmetric	
Efficiency		60* C
	91 %	
LEDs/each optic	1	
LEDs/each optic Light colour		5° 40 5°
	1	6, 10, 6,
Light colour	1	67 <u>60</u> 67
Light colour	1	
Light colour	1	50
Light colour Required components:	1	20
Light colour	1	50
Light colour Required components:	1 White	50
Light colour Required components:	1 White XHP35 HD	50
Light colour Required components:	1 White XHP35 HD Asymmetric	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
Light colour Required components:	1 White XHP35 HD Asymmetric 90 %	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
Light colour Required components:	1 White XHP35 HD Asymmetric 90 % 0.6 cd/lm	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
Light colour Required components:	1 White XHP35 HD Asymmetric 90 % 0.6 cd/lm 1	80 90 90 90 90 90 90 90 90 90 9
Light colour Required components: CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White XHP35 HD Asymmetric 90 % 0.6 cd/lm	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
Light colour Required components:	1 White XHP35 HD Asymmetric 90 % 0.6 cd/lm 1	80 90 90 90 90 90 90 90 90 90 9
Light colour Required components: CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White XHP35 HD Asymmetric 90 % 0.6 cd/lm 1	80 90 90 90 90 90 90 90 90 90 9
Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White XHP35 HD Asymmetric 90 % 0.6 cd/lm 1	80 90 90 90 90 90 90 90 90 90 9



LED	XHP35 HI	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
LEDs/each optic	1	
Light colour	White	
Required components:		
LED	XP-G2	50*
EUD FWHM / FWTM	Asymmetric	75° 100
Efficiency	86 %	
Peak intensity	0.7 cd/lm	or And and And
LEDs/each optic	1	× × ×
Light colour	White	
Required components:		
i toquiroù componenter		
Protective plate	glass	
		 30* <u>15</u> <sup>4</sup> 0* <u>15</u> *
LED	XP-G2 HE	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
		90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	78
Efficiency	78 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		40
Drotostivo slata	alooo	
Protective plate	glass	200



		90,0 90,0
LED	XP-G3	
FWHM / FWTM	Asymmetric	75°
Efficiency	75 %	
Peak intensity	0.6 cd/lm	50 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	
Required components:	Wine	45*
C17580_STRADA-2X		400
C17500_51RADA-2A	2-30D-WHI	$\times$
Protective plate	glass	
		130* 135 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup> 30*
		90* 90*
LED	XP-L2	9
FWHM / FWTM	Asymmetric	756 100 75'
Efficiency	80 %	
Peak intensity	0.4 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	451 300 451
Required components:		
		400
Protective plate	glass	
		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup>
		90* 90*
		90° - 96
	XQ-E HD	20
LED		84° 99 78° 700 700 700 700 700 700 700 700 700 70
LED FWHM / FWTM	Asymmetric	84° 99 78° 700 700 64° 700 700 700 700
LED FWHM / FWTM Efficiency		84* 99 .75 .05 .05 .05 .05 .05 .05 .05 .05 .05 .0
LED FWHM / FWTM Efficiency LEDs/each optic	Asymmetric 90 % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric 90 %	8 <sup>1</sup> 000 000
LED FWHM / FWTM Efficiency LEDs/each optic	Asymmetric 90 % 1	er 01 200 02 01 02 02 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric 90 % 1	20° 200
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric 90 % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric 90 % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric 90 % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	Asymmetric 90 % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	Asymmetric 90 % 1 White XT-E	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	Asymmetric 90 % 1 White XT-E Asymmetric	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: CREE CELED LED FWHM / FWTM Efficiency	Asymmetric 90 % 1 White XT-E Asymmetric 80 %	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: Required components:	Asymmetric 90 % 1 White XT-E Asymmetric 80 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: CREE CLED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 1 White XT-E Asymmetric 80 % 0.6 cd/lm 1	60*
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: CREE COMPONENTS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 1 White XT-E Asymmetric 80 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: Required components:	Asymmetric 90 % 1 White XT-E Asymmetric 80 % 0.6 cd/lm 1	60*
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 1 White XT-E Asymmetric 80 % 0.6 cd/lm 1 White	60*
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: CREE CLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 1 White XT-E Asymmetric 80 % 0.6 cd/lm 1 White	60" 0" 0" 0"



	ns	
LED	LUXEON 3030 2D (Round LES)	90° 90°
EED FWHM / FWTM	Asymmetric	750 200 720
Efficiency	82 %	
Peak intensity	0.7 cd/lm	604 60
LEDs/each optic	1	310
Light colour	White	45* 400 45
Required components:		
Protective plat	te, glass	00
		30* 15 <sup>5</sup> 700 15* 30'
	DS	90* 90
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	Asymmetric	75° 75'
Efficiency	94 %	
Peak intensity	0.9 cd/lm	80°
LEDs/each optic	1	400
Light colour	White	45* 45
Required components:		000
		X   X
		80
		30* 30*
	20	TAX FAI
		90* <u>9</u> 0
LED	LUXEON 3030 2D (Round LES)	8°
LED FWHM / FWTM	LUXEON 3030 2D (Round LES) Asymmetric	90° 70° (200) 70°
LED FWHM / FWTM Efficiency	LUXEON 3030 2D (Round LES) Asymmetric 72 %	2
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White	20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White te, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White Re, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White Re, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White Re, glass DS LUXEON 3030 2D (Square LES) Asymmetric 83 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat Protective plat <b>WIM / FWTM</b> Efficiency Peak intensity	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White te, glass DS LUXEON 3030 2D (Square LES) Asymmetric 83 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat <b>WIM / Protective plat</b> ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White te, glass DS LUXEON 3030 2D (Square LES) Asymmetric 83 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat <b>WIM</b> / Fortective plat EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White te, glass DS LUXEON 3030 2D (Square LES) Asymmetric 83 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat <b>WIM / Protective plat</b> ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White te, glass DS LUXEON 3030 2D (Square LES) Asymmetric 83 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat <b>Why Protective plat</b> <b>WHW / FWTM</b> Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plat <b>Weak intensity</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 72 % 0.5 cd/lm 1 White	



UMILE	DS	90* 99
LED	LUXEON 3030 2D (Square LES)	
FWHM / FWTM	Asymmetric	720
Efficiency	95 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		010
		X   X
		800
		30° 15° 0° 15°
	DS	80°
LED	LUXEON 5050 Round LES	9
FWHM / FWTM	Asymmetric	729 200 72
Efficiency	84 %	
Peak intensity	0.5 cd/lm	60*
LEDs/each optic	1	
Light colour	White	
Required components:		400
Protective pla	e, glass	
		30* 600 3
		13 <sup>2</sup> 0 <sup>6</sup> 15 <sup>5</sup>
		90* 90
LED	LUXEON 5050 Square LES	700
FWHM / FWTM	Asymmetric	
Efficiency	95 %	504 6
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	ér kara kara kara kara kara kara kara ka
Required components:		
		600
		600
		00 70 30* 13 <sup>3</sup> 0* 13*
	DS	00 70 33 <sup>2</sup> 15 <sup>3</sup> 0 <sup>4</sup> 35 <sup>4</sup>
		92 92 92 92 92 93 93 93 95 95 95 95 95 95 95 95 95 95 95 95 95
LED	DS LUXEON 5050 Square LES Asymmetric	00 70 70 70 70 70 70 70 70 70 70 70 70 7
LED FWHM / FWTM	LUXEON 5050 Square LES	**************************************
LED FWHM / FWTM Efficiency	LUXEON 5050 Square LES Asymmetric	**************************************
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Square LES Asymmetric 84 %	**************************************
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Square LES Asymmetric 84 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Square LES Asymmetric 84 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 84 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 84 % 0.5 cd/lm 1 White	



r		
MUMILED	S	90* 90*
LED FWHM / FWTM	LUXEON H50-2 Asymmetric	29
Efficiency	%	
LEDs/each optic	1	
Light colour	White	6°
Required components:		60
		$\times$ / $\setminus$ $\times$
		300
		(30° 15° 30°
	)S	90+ 90+
LED	LUXEON HL2X-P	7
FWHM / FWTM	Asymmetric	73%
Efficiency	96 %	20
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	$X \times I \times X$
Light colour	White	400 45'
Required components:		500
		50
		30* 15 <sup>3</sup> 0 <sup>6</sup> 15* 30*
	S	
LED	LUXEON HL2X-P	90°
FWHM / FWTM	Asymmetric	75°
Efficiency	81 %	
Peak intensity	0.4 cd/lm	60*
LEDs/each optic	1	
Light colour	White	45* 300 45*
Required components:		$\times$ / $\times$
		400
Protective plate	, glass	
		30° 2500 30° 30°
ØΝΙCΗΙΛ		20° 13° 0° 13° 20°
	NV/4WR35AM	5° - 25° - 5° - 5° - 5°
LED	NV4WB35AM Asymmetric	23° 200 200 90° 25° 90° 35° 90°
LED FWHM / FWTM	Asymmetric	20° 10° 10° 20° 20° 10° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
LED FWHM / FWTM Efficiency	Asymmetric 94 %	20° 12° 0° 13° 2° 20° 0° 13° 2° 20° 0° 13° 13°
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1	



<b>ΜΝΙCΗΙΛ</b>		
LED	NVSW219F	9 <sup>0</sup>
FWHM / FWTM	Asymmetric	29
Efficiency	81 %	
Peak intensity	0.5 cd/lm	55*
LEDs/each optic	1	
Light colour	White	
Required components:		
Protective plate	e, glass	
~		
<b>ΜΝΙCΗΙΛ</b>		99*
LED	NVSW519A	
FWHM / FWTM	Asymmetric	the Contract of the Contract o
Efficiency	82 %	
Peak intensity	0.4 cd/lm	10 <sup>7</sup>
LEDs/each optic	1	
Light colour	White	47*
Required components:		
Protective plate	e glass	
	s, glaco	
		20* 20*
Manage		
ΝΙCΗΙΛ		
	NVSW519A	20*
LED	NVSW519A Asymmetric	90* 70*
LED FWHM / FWTM	Asymmetric	20
LED FWHM / FWTM Efficiency		94 73 54
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 %	97 78 65
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.6 cd/lm	20 70 51 51
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.6 cd/lm 1	90 77 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.6 cd/lm 1	50 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.6 cd/lm 1	50 
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.6 cd/lm 1	20 20 51 51 51 51 51 51 51 51 51 51 51 51
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1 White NVSxE21A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1 White NVSxE21A Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components:	Asymmetric 93 % 0.6 cd/lm 1 White NVSxE21A Asymmetric 83 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1 White NVSxE21A Asymmetric 83 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1 White NVSxE21A Asymmetric 83 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1 White NVSxE21A Asymmetric 83 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1 White NVSxE21A Asymmetric 83 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>WICHIA</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1 White NVSxE21A Asymmetric 83 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1 White NVSxE21A Asymmetric 83 % 0.7 cd/lm 1 White	
ED WHM / FWTM Efficiency Peak intensity EDs/each optic .ight colour Required components: WHM / FWTM Efficiency Peak intensity .EDs/each optic .ight colour Required components:	Asymmetric 93 % 0.6 cd/lm 1 White NVSxE21A Asymmetric 83 % 0.7 cd/lm 1 White	



<b>ΜΝΙCΗΙΛ</b>				
LED	NVSxE21A			90° 9
FWHM / FWTM	Asymmetric			751 100
Efficiency	80 %			
Peak intensity	0.7 cd/lm			.50%
LEDs/each optic	1			30
Light colour	White			400
Required components:	WING			
rtequired components.				500
Protective plate	e, glass			000
				30° 11° 3
<b>Μ</b> ΝΙCΗΙΛ				90*
LED	NVSxx19B/NVSxx19C			3
FWHM / FWTM	Asymmetric			75%
Efficiency	82 %			A mark
Peak intensity	0.5 cd/lm			
LEDs/each optic	1			
Light colour	White			45*
Required components:				400
Protective plate	e. glass			200
	., g			
				30° 500 15° 3
<b>ΜΝΙCΗΙΛ</b>			10e2	90*
LED	NVSxx19B/NVSxx19C	υ		100
FWHM / FWTM	Asymmetric	valu		78
Efficiency	92 %	ate		
Peak intensity	0.7 cd/lm	Y coordinate value	0	200 b
LEDs/each optic	1	COOL		600
Light colour	Amber	~		45* 500 4
Required components:				500
			-10e2 0	10e2
			X coordinate value	
				30° 15 <sup>5</sup> 0° 15° 3
OSRAM Opto Semiconductors				90°
LED	Duris S8			9
FWHM / FWTM	Asymmetric			75%
Efficiency	83 %			
Peak intensity	0.5 cd/lm			
LEDs/each optic	1			X / w
Light colour	White			45*
Required components:				40
Protective plate	e, glass			
				500
				15 00 15 3



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OSRAM Opto Semiconductors		90* 90*
LED	Duris S8	
FWHM / FWTM	Asymmetric	73%
Efficiency	78 %	
	0.5 cd/lm	60° 200 60°
Peak intensity		
LEDs/each optic	1	
Light colour	White	45°
Required components:		400
C17677_STRADA-2	IZ-SHD-BLK	200
		$\times$ $\land$ $\times$
		30° <u>600</u> 30°
OSRAM		
Opto Semiconductors		90° 90°
LED	Duris S8	
FWHM / FWTM	Asymmetric	
Efficiency	82 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		
		400
Protective plat	e, glass	
		31 <sup>4</sup>
OSRAM		23 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup>
Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (2W version)	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	0.7 cd/lm	50° 60°
LEDs/each optic	1	400
Light colour	White	45*
Required components:		500
		30°*
OSRAM		22 <sup>5</sup> 0 <sup>6</sup> 23 <sup>5</sup>
Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (3W version)	100
LED FWHM / FWTM	OSCONIQ P 3737 (3W version) Asymmetric	75%
	Asymmetric 94 %	75
FWHM / FWTM	Asymmetric	200 72° 60° 72°
FWHM / FWTM Efficiency	Asymmetric 94 %	200
FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.7 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.7 cd/lm 1	20 20 20 20 20 20 20 20 20 20 20 20 20 2
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1	275
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1	275
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1	



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OSRAM Opto Semiconductors		
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75°
Efficiency	83 %	
Peak intensity	0.6 cd/lm	604 604
LEDs/each optic	1	
Light colour	White	
	Wine	45* 400 45*
Required components: C17580_STRADA-2		
C17500_51RADA-2	A2-30D-W11	500
		600
		30* 15 <sup>5</sup> 0* 15 <sup>5</sup> 30*
OSRAM Opto Semiconductors		
LED	OSLON Square CSSRM2/CSSRM3	Ĩ
FWHM / FWTM	Asymmetric	750 500 75°
Efficiency	68 %	
Peak intensity	0.4 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	X / 30
Required components:	Wille	49,
C17677_STRADA-2		400
		$\times$
Protective plat	e, glass	500
		30* 30*
1		15 00 15*
OSRAM		23 <sup>2</sup> 0 <sup>6</sup> 15 <sup>5</sup>
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	89. 25. 64 25.
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	52 <sup>°</sup> 6 <sup>°</sup> 33 <sup>°</sup> 99 <sup>°</sup> 73 <sup>°</sup>
opto Semiconductors LED FWHM / FWTM	Asymmetric	92° 0° 33° 92° 9° 73° 9°
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 73 %	22° 6° 23°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 73 % 0.5 cd/lm	22° 6° 23°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 73 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 73 % 0.5 cd/lm	20 <sup>°</sup> 0 <sup>°</sup> 13 <sup>°</sup> 90 <sup>°</sup> 100 100 100 100 100 100 100 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 73 % 0.5 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 73 % 0.5 cd/lm 1 White	22 <sup>3</sup> 0 <sup>4</sup> 12 <sup>3</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT	20° 0° 13° 10° 10° 10° 10° 10° 10° 10° 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT	22° 6° 12° 20° 6° 12° 20° 6° 12°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2 Protective plat	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT	20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components: C17580_STRADA-2 Protective plat	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT e, glass	20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2 Protective plat OSRAM Opto Semiconductors LED	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT e, glass OSLON Square CSSRM2/CSSRM3	50 50 50 50 50 50 50 50 50 50 50 50 50 5
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2 Protective plat OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT e. glass OSLON Square CSSRM2/CSSRM3 Asymmetric	200 200 200 200 200 200 200 200 200 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2 Protective plat OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 82 %	200 200 200 200 200 200 200 200 200 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2 Protective plat OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 82 % 0.5 cd/lm	200 200 200 200 200 200 200 200 200 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2 Protective plat OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 82 % 0.5 cd/lm 1	200 200 200 200 200 200 200 200 200 200
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2  Protective plat OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 82 % 0.5 cd/lm	200 200 200 200 200 200 200 200 200 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components: C17580_STRADA-2 Protective plat Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 82 % 0.5 cd/lm 1	200 200 200 200 200 200 200 200 200 200
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2 Protective plat Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 82 % 0.5 cd/lm 1 White	200 200 200 200 200 200 200 200 200 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2  Protective plat OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 82 % 0.5 cd/lm 1 White	200 200 200 200 200 200 200 200 200 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2 Protective plat OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 73 % 0.5 cd/lm 1 White X2-SHD-WHT e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 82 % 0.5 cd/lm 1 White	50°



OSRAM Opto Semiconductors		90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75°
Efficiency	78 %	
Peak intensity	0.6 cd/lm	604 601
LEDs/each optic	1	
	' White	300
Light colour	White	45* 400
Required components:		$\times$ $\top$ $\times$
C17677_STRADA-22	2-OHD-DEK	500
		30° 600 30° 30°
PHILIPS		THY EFT
		90* 90*
LED	Fortimo FastFlex LED 2x2 DA G5	775
FWHM / FWTM	Asymmetric	
Efficiency	71 %	60* 60*
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		
C17580_STRADA-22	(2-SHD-WHT	X   X
Protective plat		
FIDIECTIVE plat	z, ylass	30+ 30'
	1	
PHILIPS		90* 90*
LED	Fortimo FastFlex LED 2x2 DA G5	
FWHM / FWTM	Asymmetric	
Efficiency	83 %	
Peak intensity	0.7 cd/lm	$\mathbb{N} \times \mathbb{N} \times \mathbb{N}$
LEDs/each optic	1	X ×
Light colour	White	6 <sup>1</sup> 6 <sup>1</sup>
Required components:		400
C17580_STRADA-22	(2-SHD-WHT	500
		$\times$
		30* 000 30*
DUUUDO	1	13, 6, 12,
PHILIPS		90* 90*
LED	Fortimo FastFlex LED 2x8 DA G4+	
FWHM / FWTM	Asymmetric	100
Efficiency	66 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 300 5°
Required components:		
	(2-SHD-BLK	40
Required components: C17677_STRADA-2		
Required components:		40 20 20



PHILIPS		90* a.k
LED	Fortimo FastFlex LED 2x8 DA G4+	
FWHM / FWTM	Asymmetric	75
Efficiency	75 %	
Peak intensity	0.6 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45* 3% 45*
Required components:		$\times$
C17677_STRADA-2X	2-SHD-BLK	400
		500
		30° 13 <sup>5</sup> 0 <sup>4</sup> 15° 30°
PHILIPS		90° - 90°
LED	Fortimo FastFlex LED 2x8 DA G5	9
FWHM / FWTM	Asymmetric	100 75°
Efficiency	82 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	200
Light colour	White	er er
Required components:		400
Protective plate		
	, giass	500
		30* 12 <sup>5</sup> 6 <sup>6</sup> 15* 30*
PHILIPS		
LED	Fortimo FastFlex LED 2x8 DA G5	»·
FWHM / FWTM	Asymmetric	73° 70°
Efficiency	, loginino di lo	
	83 %	
	83 % 0.6 cd/m	504 504
Peak intensity	0.6 cd/lm	60 <sup>4</sup> 200 604
Peak intensity LEDs/each optic		
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1	5°
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White	50 <sup>4</sup> (30) 60 <sup>4</sup>
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1 White	65 60 65 65 65 65 65 65 65 65 65 65 65 65 65
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components:	0.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.6 cd/lm 1 White a, glass Fortimo FastFlex LED 2x8 DAX G4	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric	
Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS	0.6 cd/lm 1 White s, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 93 %	
Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency LEDs/each optic	0.6 cd/lm 1 White s, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 93 % 1	
Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency LEDs/each optic Light colour	0.6 cd/lm 1 White s, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 93 %	
Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency LEDs/each optic	0.6 cd/lm 1 White s, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 93 % 1	23 <sup>6</sup> 00 22 60 <sup>6</sup> 00 68 <sup>4</sup>
Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency LEDs/each optic Light colour	0.6 cd/lm 1 White s, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 93 % 1	23 <sup>6</sup> 00 22 60 <sup>6</sup> 00 68 <sup>4</sup>
Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency LEDs/each optic Light colour	0.6 cd/lm 1 White s, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 93 % 1	23 <sup>6</sup> 00 22 60 <sup>6</sup> 00 68 <sup>4</sup>



SAMSUI	NG	39*
LED	HiLOM RH12 Z (LH351C)	5
FWHM / FWTM	Asymmetric	730 100
Efficiency	82 %	
Peak intensity	0.5 cd/lm	60× 200
LEDs/each optic	1	
Light colour	White	45' 30
Required components:		40
Protective pla	te, glass	30
SAMSUI		
		30°
	LH181B	75 2.00
FWHM / FWTM Efficiency	Asymmetric 94 %	
Peak intensity	94 % 0.5 cd/lm	504
LEDs/each optic	4	
Light colour	→ White	
Required components:		
		50
		00
		20 <u>13</u> 0 <u>13</u> 0
SAMSUI	NG	50'
LED	LH351B	
FWHM / FWTM	Asymmetric	250
Efficiency	79 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 300
Required components:		
Protective pla	te, glass	
		100° - 133 <sup>5</sup> 0° 133°
SAMSUI	NG	92
LED	LH508A	9
FWHM / FWTM	Asymmetric	759
Efficiency	84 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	67
Required components:		
	te class	340
Protoctive pla		
Protective pla		



SEOUL		
SEOUL SEMICONDUCTOR		90° 90°
LED	MJT 5050	736 200 770
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60%
Peak intensity	0.5 cd/lm	$\times$
LEDs/each optic	1	$\times \times / \times \times$
Light colour	White	45* 400 45*
Required components:		200
		00
		30° 760 30°
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	SEOUL DC 5050 6V	2
FWHM / FWTM	Asymmetric	73* 500 75*
Efficiency	95 %	
Peak intensity	0.6 cd/lm	60*
LEDs/each optic	1	
Light colour	White	45° 400 45°
Required components:		200
		600
		700
		10° 15° 0° 15° 30°
h		
SEOUL SEMICONDUCTOR	75M4	81
seoul semiconductor	Z5M4 Asymmetric	
seoul semiconductor LED FWHM / FWTM	Asymmetric	90° 92° 100 72°
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 82 %	20 20 20 20 20 20 20 20 20 20
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 82 % 0.5 cd/lm	200
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 82 % 0.5 cd/lm 1	
SEDUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 82 % 0.5 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 82 % 0.5 cd/lm 1	
SEDUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 82 % 0.5 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 82 % 0.5 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 82 % 0.5 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 82 % 0.5 cd/lm 1 White	5°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SEOUL SEMICONDUCTOR	Asymmetric 82 % 0.5 cd/lm 1 White a, glass	6° 40 80
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED	Asymmetric 82 % 0.5 cd/lm 1 White 2, glass Z8Y22	6° 40 80
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM	Asymmetric 82 % 0.5 cd/lm 1 White 2, glass Z8Y22 Asymmetric	6° 40 80
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate stoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 82 % 0.5 cd/lm 1 White 2, glass Z8Y22 Asymmetric 76 %	6° 40 80
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 82 % 0.5 cd/lm 1 White 2, glass Z8Y22 Asymmetric 76 % 0.8 cd/lm	6° 40 80
stoul semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate stoul semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 82 % 0.5 cd/lm 1 White a, glass Z8Y22 Asymmetric 76 % 0.8 cd/lm 1	6° 40 80
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 82 % 0.5 cd/lm 1 White 2, glass Z8Y22 Asymmetric 76 % 0.8 cd/lm	6° 40 80
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 82 % 0.5 cd/lm 1 White 28Y22 Asymmetric 76 % 0.8 cd/lm 1 White	6° 40 80
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 82 % 0.5 cd/lm 1 White 28Y22 Asymmetric 76 % 0.8 cd/lm 1 White	5°
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 82 % 0.5 cd/lm 1 White 28Y22 Asymmetric 76 % 0.8 cd/lm 1 White	5°
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 82 % 0.5 cd/lm 1 White 28Y22 Asymmetric 76 % 0.8 cd/lm 1 White	5°



# PRODUCT DATASHEET C13299\_STRADA-2X2-ME

#### **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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