

PRODUCT DATASHEET C15687_STRADA-2X2-FW

STRADA-2X2-FW

Beam with wide light distribution and good illuminance uniformity for residential street lighting and staggered pole setups

SPECIFICATION:

Dimensions Height Fastening ROHS compliant 50.0 x 50.0 mm 10.9 mm pin, screw yes 1



MATERIALS:

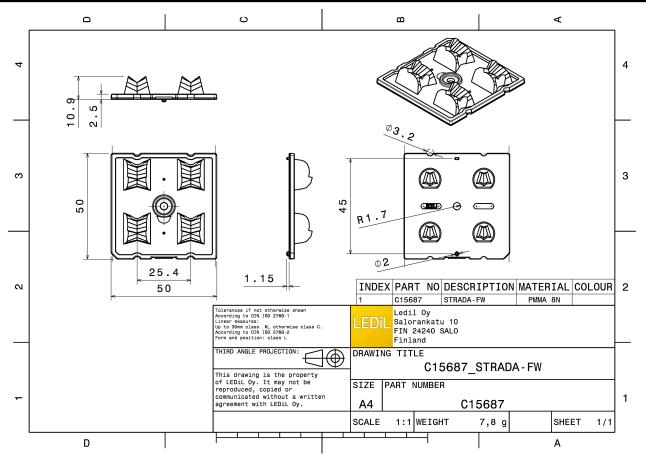
Component	Туре	Material	Colour	Finish
STRADA-2X2-FW	Multi-lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C15687_STRADA-2X2-FW	800	160	160	8.4
» Box size: 476 x 273 x 292 mm				



PRODUCT DATASHEET C15687_STRADA-2X2-FW



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



		ITTY YATI
LED	XD16	90* 90*
EED FWHM / FWTM		750 750
	Asymmetric 92 %	
Efficiency		600 600
Peak intensity	0.7 cd/lm	350
LEDs/each optic	1	X X 200
Light colour	White	6° 6°
Required compone	nts:	20
		300
		30° 30°
		90. 90.
LED	XD16	20 50
FWHM / FWTM	Asymmetric	
Efficiency	94 %	100
Peak intensity	0.5 cd/lm	350
LEDs/each optic	4	
Light colour	White	as* 200 as*
Required compone	nts:	220
		200
		350
		115 ¹ 0 ⁴ 15 ⁴
		84°
CREE ÷	XM-L3	89 89
	XM-L3 Asymmetric	
LED		94*
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 0.7 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 0.7 cd/lm 1 White ints: XP-G2	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 0.7 cd/lm 1 White ints: XP-G2 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREECS LED FWHM / FWTM Efficiency	Asymmetric 93 % 0.7 cd/lm 1 White ints: XP-G2 Asymmetric 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREECS LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 0.7 cd/lm 1 White ints: XP-G2 Asymmetric 92 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.7 cd/lm 1 White ints: XP-G2 Asymmetric 92 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.7 cd/lm 1 White ints: XP-G2 Asymmetric 92 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.7 cd/lm 1 White ints: XP-G2 Asymmetric 92 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREECS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.7 cd/lm 1 White ints: XP-G2 Asymmetric 92 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREECS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.7 cd/lm 1 White ints: XP-G2 Asymmetric 92 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREECS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.7 cd/lm 1 White ints: XP-G2 Asymmetric 92 % 1 cd/lm 1 White	



			ITAY	YHT!
LEDS	XP-G3		90*	90*
FWHM / FWTM	Asymmetric		251	20 75.
Efficiency	94 %			200
Peak intensity	0.7 cd/lm		614	60*
LEDs/each optic	1		\sim	150
Light colour	White		$ \land \land$	200
Required componer			45.	230
			XT	300
			× +	30 1
			30* 452	0° 15° 30°
			90*	30*
LED	XP-G3			
FWHM / FWTM	Asymmetric		75*	75
Efficiency	76 %			100
Peak intensity	0.6 cd/lm		.66%	60*
LEDs/each optic	1		$\sim T$	150
Light colour	White		45*	200 45*
Required componer	its:			
C17677_STRAD	A-2X2-SHD-BLK		XL	20
			\checkmark \frown	300
			30°	7. 300
			152	300 15°
			90°	90*
	XP-G3		50°	99*
	XP-G3 Asymmetric		20 t	20
LED			99* 73t	90 90 90
LED FWHM / FWTM	Asymmetric		89 ¹	90 90 100 100 100 100 100 100
LED FWHM / FWTM Efficiency	Asymmetric 88 %		602 201	90° 200 200 200 00°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 88 % 0.7 cd/lm		6°	90 50 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 88 % 0.7 cd/lm 1 White tts:		6; 97	20 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 88 % 0.7 cd/lm 1 White		9. 9.	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 88 % 0.7 cd/lm 1 White tts:		92. 192. 194. 194.	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 88 % 0.7 cd/lm 1 White tts:		20- 62- 20- 20-	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	Asymmetric 88 % 0.7 cd/lm 1 White tts: A-2X2-SHD-WHT		50°	50 50 50 50 50 50 50 50 60' 60' 50 60' 60' 50 60' 50 60' 50 50 60' 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	Asymmetric 88 % 0.7 cd/lm 1 White tts: A-2X2-SHD-WHT EDS		80°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	Asymmetric 88 % 0.7 cd/lm 1 White tts: A-2X2-SHD-WHT EDS LUXEON V		20- 20- 20- 20- 20- 20- 20- 20- 20- 20-	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	Asymmetric 88 % 0.7 cd/lm 1 White tts: A-2X2-SHD-WHT EDS LUXEON V Asymmetric		21 20 20 20 20 20 20 20 20 20 20 20 20 20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	Asymmetric 88 % 0.7 cd/lm 1 White tts: A-2X2-SHD-WHT EDS LUXEON V Asymmetric 93 %		50° 50° 50° 50° 50° 50° 50°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	Asymmetric 88 % 0.7 cd/lm 1 White tts: A-2X2-SHD-WHT EDS LUXEON V Asymmetric 93 % 0.6 cd/lm		61 25 26 26 26 26 26 26 26 26 26 27 26 26 27 27 27 27 27 27 27 27 27 27 27 27 27	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	Asymmetric 88 % 0.7 cd/lm 1 White tts: A-2X2-SHD-WHT EDS LUXEON V Asymmetric 93 % 0.6 cd/lm 1		61 10 10 10 10 10 10 10 10 10 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	Asymmetric 88 % 0.7 cd/lm 1 White tts: A-2X2-SHD-WHT EDS LUXEON V Asymmetric 93 % 0.6 cd/lm 1 White		6°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	Asymmetric 88 % 0.7 cd/lm 1 White tts: A-2X2-SHD-WHT EDS LUXEON V Asymmetric 93 % 0.6 cd/lm 1 White		6; 6; 9) 6; 6; 6; 6; 6; 6; 6; 6; 6; 6; 6; 6; 6;	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	Asymmetric 88 % 0.7 cd/lm 1 White tts: A-2X2-SHD-WHT EDS LUXEON V Asymmetric 93 % 0.6 cd/lm 1 White		90°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	Asymmetric 88 % 0.7 cd/lm 1 White tts: A-2X2-SHD-WHT EDS LUXEON V Asymmetric 93 % 0.6 cd/lm 1 White			



Your soluti		
MST Your soluti	ons	90*
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	75* 75.
Efficiency	96 %	100
Peak intensity	0.9 cd/lm	600 600
LEDs/each optic	1	150
Light colour	White	200
Required componer		45* 45*
	15.	X/T/X
		X
		X
		30° 35° 82 15° 30°
ØNICHI		THA RHT
		90° 90°
	NVSW219D	751 751
FWHM / FWTM	Asymmetric	
Efficiency	94 % 0.8 cd/m	60° 60°
Peak intensity		10
LEDs/each optic	1	
Light colour	White	-6°
Required componer	NS.	

		X ×
		30° 15° 400 15° 30°
ØNICHI		
LED	NVSW219F	
	10002131	
FWHM / FWTM	Asymmetric	75* 0 75.
FWHM / FWTM Efficiency	Asymmetric 94 %	780
Efficiency	94 %	20- 00 ¹
Efficiency Peak intensity	94 % 0.8 cd/lm	2 ⁰ 100 0 ⁴
Efficiency Peak intensity LEDs/each optic	94 % 0.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic	94 % 0.8 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White	90 90 90 90 90 90 90 90 90 90
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White	20° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/m 1 White hts:	
Efficiency Peak intensity LEDs/each optic Light colour Required componen	94 % 0.8 cd/lm 1 White hts:	
Efficiency Peak intensity LEDs/each optic Light colour Required component	94 % 0.8 cd/m 1 White hts: NVSW319B	
Efficiency Peak intensity LEDs/each optic Light colour Required component MICHIA LED FWHM / FWTM	94 % 0.8 cd/m 1 White hts: NVSW319B Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required component Microsoft LED FWHM / FWTM Efficiency	94 % 0.8 cd/m 1 White hts: NVSW319B Asymmetric 94 %	
Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component VICHIN LED FWHM / FWTM Efficiency Peak intensity	94 % 0.8 cd/m 1 White hts: NVSW319B Asymmetric 94 % 0.7 cd/m	
Efficiency Peak intensity LEDs/each optic Light colour Required component Microsoft Efficiency Peak intensity LEDs/each optic	94 % 0.8 cd/m 1 White hts: NVSW319B Asymmetric 94 % 0.7 cd/m 1	
Efficiency Peak intensity LEDs/each optic Light colour Required component WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/m 1 White NVSW319B Asymmetric 94 % 0.7 cd/m 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component Microsoft Efficiency Peak intensity LEDs/each optic	94 % 0.8 cd/m 1 White NVSW319B Asymmetric 94 % 0.7 cd/m 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component Minimum Component Required component Secondary Component Component Required component Required component Secondary Component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/m 1 White NVSW319B Asymmetric 94 % 0.7 cd/m 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required component WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/m 1 White NVSW319B Asymmetric 94 % 0.7 cd/m 1 White	



OSRAM Opto Semiconductors		90° 90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	754 774
Efficiency	93 %	100
Peak intensity	0.9 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	45° 200
Required compone	nts:	20
		200
		30° 15° 46° 15° 3°
OSRAM Opto Semiconductors		90° 90°
LED	OSLON Square PC	
FWHM / FWTM	Asymmetric	750 750
Efficiency	94 %	200
Peak intensity	0.8 cd/lm	150 60*
LEDs/each optic	1	$X \times I \to X \times$
Light colour	White	45° 200 45 [°]
Required compone	nts:	250
		30 1
		30° 15° 30° 30°
PHILIP	S	50° 50°
LED	Fortimo FastFlex LED 2x8 DA G4	
FWHM / FWTM	Asymmetric	710 710
Efficiency	92 %	
Peak intensity	1 cd/lm	60*
LEDs/each optic	1	10
Light colour	White	43° 200 43°
Required compone	nts:	
		250
		300 300
		150 150 150
PHILIP	S	90* 90*
LED	Fortimo FastFlex LED 2x8 DA G4+	
FWHM / FWTM	Asymmetric	750 770
Efficiency	96 %	
Peak intensity	0.8 cd/lm	60*
LEDs/each optic	1	
Light colour	White	45* 200 65*
Required compone		
· ·		X
		1 300



S ΛΜS	ING	
		50*
LED FWHM / FWTM	HiLOM RC12 Z (LH181B)	71 72
Efficiency	Asymmetric 95 %	
Peak intensity	95 % 0.7 cd/lm	ω· 60
	1	
LEDs/each optic Light colour	ı White	$ X / T \setminus X$
Required compone		e, e
Required compone	113.	20
		\times
		40
		200* 10 ⁴ 10 ⁴ 10 ⁴
SVWSI	JNG	8 ⁴
LED	HiLOM RH12 Z (LH351C)	
FWHM / FWTM	Asymmetric	281 75
Efficiency	95 %	
Peak intensity	0.9 cd/lm	60 150 60
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	20
		30
		30
		10 ¹ 10 ¹ 10 ¹ 10 ¹ 10 ¹
SAMSU	JNG	90* 90
		92 ³
	HILOM RH16 (LH351C) Asymmetric	94 ³ 92 32 ⁴ 75
LED FWHM / FWTM	HiLOM RH16 (LH351C)	95× 754 100 100
LED FWHM / FWTM Efficiency	HiLOM RH16 (LH351C) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RH16 (LH351C) Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White	
LED	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White nts:	25 ² 0 ⁴ 25 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White nts:	25 ² 0 ⁴ 25 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSI LED FWHM / FWTM Efficiency	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White nts: JNG HiLOM RM12 Z (LH502C) Asymmetric	25 ² 0 ⁴ 25 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White nts: JNG HiLOM RM12 Z (LH502C) Asymmetric 95 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White nts:	
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	HiLOM RH16 (LH351C) Asymmetric 94 % 0.8 cd/lm 1 White nts:	



SAMSL	ING	90° 90
LED	HiLOM RM16 Z (LH502C)	
FWHM / FWTM	Asymmetric	73* 50 78
Efficiency	95 %	
Peak intensity	0.6 cd/lm	. 60 ¹⁰ 120 60
LEDs/each optic	1	XX
Light colour	White	
Required compone	its:	
		30
		30
		30° 400 30° 30° 30°
รлмรเ		THA KHT
		90* 90
LED FWHM / FWTM	HiLOM RM8 Z (LH502C)	210 250
Efficiency	Asymmetric 95 %	100
Peak intensity	0.6 cd/lm	60 ⁴ 150 60
LEDs/each optic	1	
Light colour	White	
Required compone		
		X - 300 - X
		30* 15° 30
SAMSL	ING	
LED	LH351B	
FWHM / FWTM	Asymmetric	70
Efficiency	73 %	100
Peak intensity	0.6 cd/lm	604 000
r our inconoity	0.0 Cu/III	
LEDs/each optic	1	19
LEDs/each optic		- 59 - 50 - 50 - 60
	1 White	- 59
LEDs/each optic Light colour Required component	1 White hts:	5°
LEDs/each optic Light colour Required component	1 White	
LEDs/each optic Light colour Required component	1 White hts:	
LEDs/each optic Light colour Required componen Protective	1 White hts:	29
LEDs/each optic Light colour Required componen Protective seoul semiconductor	1 White hts: plate, glass	29
LEDs/each optic Light colour Required componen Protective seoul semiconductor LED	1 White hts: plate, glass Z5M3	29
LEDs/each optic Light colour Required componen Protective seous semiconductor LED FWHM / FWTM	1 White hts: plate, glass Z5M3 Asymmetric	29
LEDs/each optic Light colour Required componen Protective SEOUS SEMICONDUCTOR LED FWHM / FWTM Efficiency	1 White hts: plate, glass Z5M3 Asymmetric 94 %	29
LEDs/each optic Light colour Required componen Protective SEOUS SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	1 White tts: plate, glass Z5M3 Asymmetric 94 % 0.7 cd/lm	20
LEDs/each optic Light colour Required componen Protective SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White tts: plate, glass Z5M3 Asymmetric 94 % 0.7 cd/lm 1	
LEDs/each optic Light colour Required component Protective	1 White hts: plate, glass Z5M3 Asymmetric 94 % 0.7 cd/lm 1 White	
LEDs/each optic Light colour Required componen Protective SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White hts: plate, glass Z5M3 Asymmetric 94 % 0.7 cd/lm 1 White	
LEDs/each optic Light colour Required component Protective	1 White hts: plate, glass Z5M3 Asymmetric 94 % 0.7 cd/lm 1 White	
LEDs/each optic Light colour Required component Protective scoul semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White hts: plate, glass Z5M3 Asymmetric 94 % 0.7 cd/lm 1 White	29



seoul seuconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z8Y22 Asymmetric 93 % 0.5 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 0.8 cd/lm 1 White	
TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x8 4000Im HP EXC2 OTD Asymmetric 94 % 0.8 cd/Im 1 White	



CREE ≑		
LEDS	XP-G2	90* 90
LED FWHM / FWTM		750 50 7
	Asymmetric 67 %	
Efficiency	67 % 0.6 cd/lm	60 ⁴ 200 66
Peak intensity		
LEDs/each optic	1	
Light colour	White	45° 200 45
Required components:		
Protective plate	e, glass	20
		300
		30* 15 ⁵ 0 ⁸ 15* 30'
		90° 90
LED	XP-G2 HE	~ ~ ~
FWHM / FWTM	Asymmetric	50
Efficiency	91 %	100
Peak intensity	0.9 cd/lm	60° 60
LEDs/each optic	1	350
Light colour	White	45* 20 45
Required components:		
		280
		30
		90° 350 30° 30° 30°
		90° 90°
CREE ÷	XP-G3	50° 2 50
	XP-G3 Asymmetric	99 ⁺ 73 ⁺ 73 ⁺ 75
LED		90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM	Asymmetric	90° 90 73° 7 80° 7 90° 7 900 70° 7 90° 7 90° 7 90° 70° 70° 70° 70° 70° 70° 70° 70° 70° 7
LED FWHM / FWTM Efficiency	Asymmetric 64 %	50° 7 7 7 7 7 7 7 7 7 7 7 7 7
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 64 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 64 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 64 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 64 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 64 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 64 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 64 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 64 % 0.5 cd/lm 1 White e, glass XP-G3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 64 % 0.5 cd/lm 1 White e, glass XP-G3 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREECS LED FWHM / FWTM Efficiency	Asymmetric 64 % 0.5 cd/lm 1 White e, glass XP-G3 Asymmetric 66 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate EED FWHM / FWTM Efficiency Peak intensity	Asymmetric 64 % 0.5 cd/lm 1 White e, glass XP-G3 Asymmetric 66 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 64 % 0.5 cd/lm 1 White e, glass XP-G3 Asymmetric 66 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 64 % 0.5 cd/lm 1 White e, glass XP-G3 Asymmetric 66 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 64 % 0.5 cd/lm 1 White a, glass XP-G3 Asymmetric 66 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 64 % 0.5 cd/lm 1 White a, glass XP-G3 Asymmetric 66 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 64 % 0.5 cd/lm 1 White a, glass XP-G3 Asymmetric 66 % 0.5 cd/lm 1 White (2-SHD-WHT	



LED	XT-E	90* 90*
		750 750
FWHM / FWTM	Asymmetric	100
Efficiency	91 %	504 564
Peak intensity	0.9 cd/lm	20
LEDs/each optic		
Light colour	White	45° 45°
Required components:		
		400
		\times / T / \times
		30* 30*
	15	90* 90*
LED	LUXEON HL2X	
FWHM / FWTM	Asymmetric	
Efficiency	66 %	504 100 Eest
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 200 45*
Required components:		
		X/T/X
Protective plate	e, glass	× 100
		30* 350 30*
		123 0 ⁶ 13 ⁶
	S	10°
	S LUXEON TX	90 ²
		23 ¹ 0 ¹ 13 ¹
LED	LUXEON TX	29° 29° 29° 29° 29° 29° 29° 29° 29° 29°
LED FWHM / FWTM	LUXEON TX Asymmetric	20° 13° 20° 13° 20° 13° 20° 13° 20° 13° 20° 13° 20° 13° 20° 13°
LED FWHM / FWTM Efficiency	LUXEON TX Asymmetric 92 %	25° 0° 13° 0° 13° 0° 13° 0° 13° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0
LED FWHM / FWTM Efficiency Peak intensity	LUXEON TX Asymmetric 92 % 1.1 cd/m	25 ³ 0 ³ 13 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX Asymmetric 92 % 1.1 cd/m 1	20° 0° 13° 0° 13° 0° 13° 0° 13° 0° 13° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 92 % 1.1 cd/m 1	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 92 % 1.1 cd/m 1	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 92 % 1.1 cd/m 1	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 92 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 92 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 92 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 92 % 1.1 cd/lm 1 White	12 ³ 0 ⁴ 13 ³ 0 ⁴ 0 ⁴ 13 ⁴ 0 ⁴ 0 ⁴ 0 ⁴ 0 ⁴ 0 ⁴ 0 ⁴ 0 ⁴ 0 ⁴ 0 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 92 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 92 % 1.1 cd/lm 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 92 % 1.1 cd/lm 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 92 % 1.1 cd/lm 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 93 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 92 % 1.1 cd/lm 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 93 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 92 % 1.1 cd/lm 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 93 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 92 % 1.1 cd/lm 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 93 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 92 % 1.1 cd/lm 1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 93 % 0.8 cd/lm 1	



A	-	
UMILEC	IS and the second s	90° 90°
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	2
FWHM / FWTM	Asymmetric	750
Efficiency	68 %	
Peak intensity	0.5 cd/lm	60*
LEDs/each optic	1	150
Light colour	White	45* 200 4
Required components:		
		20
Protective plate	, glass	30
		30° 350 15° 3
MNICHI		90* 90
LED	NFSx757G	
FWHM / FWTM	Asymmetric	
Efficiency	68 %	
Peak intensity	0.5 cd/lm	150
LEDs/each optic	1	200
Light colour	White	45*
Required components:		250
		30
Protective plate	, glass	30
		30 ⁴ 15 ⁵ 0 ⁶⁰ 15 ⁵ 30
Μ ΝΙCΗΙΛ		
LED	NV4WB35AM	90° 90'
FWHM / FWTM	Asymmetric	730 70 77
Efficiency	92 %	100
Peak intensity	0.7 cd/lm	60* 150
LEDs/each optic	1	
Light colour	White	
Required components:	wille	45* 250 4
required components.		30
		30° 400 31 13° 0° 15° 31
Mangara		THY YHI
MNICHIA		90*
	NVSW519A	201
LED	NVSW519A Asymmetric	84 ⁴ 8
LED FWHM / FWTM	Asymmetric	81 9
LED FWHM / FWTM Efficiency	Asymmetric 90 %	84 - 10 - 6
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.8 cd/lm	84 ¹ 87 61 ² 59 61 61 61 61 61 61 61 61 61 61
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.8 cd/lm 1	84 - 10 - 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.8 cd/lm	5V - 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.8 cd/lm 1	5V - 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.8 cd/lm 1	5V - 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.8 cd/lm 1	5V - 10



ΜΝΙCΗΙΛ			Y.
LED	NVSW519A		2
FWHM / FWTM	Asymmetric	238	K/M
Efficiency	72 %		
Peak intensity	0.6 cd/lm	56*	\mathbb{Z}^{1}
LEDs/each optic	1		
Light colour	White	\sim 1	
Required components:	white	••• X	
Required components.		\sim	
Protective plate	e, glass		
		30*	
ΜΝΙCΗΙΛ		54	4
LED	NVSxE21A	<i>PC</i>	1
FWHM / FWTM	Asymmetric	751	
Efficiency	69 %		1
Peak intensity	0.5 cd/lm		71
LEDs/each optic	1		
Light colour	White		
Required components:	VIIIIO		
Protective plate	e, glass		
		30°	0
Μ ΝΙCΗΙΛ		9*	Y
LED	NWSx229A		G
FWHM / FWTM	Asymmetric	739	
Efficiency	89 %		-
Peak intensity	0.7 cd/lm	. 605	
LEDs/each optic	1		
Light colour	White	4 1	
Required components:			
-			
		\mathbf{X}	
		3. 3	
OSRAM Opto Semiconductors		30°	Y_
LED	Duris S8		$\overline{\langle}$
FWHM / FWTM	Asymmetric	75	
Efficiency	71 %		\sim
Peak intensity	0.4 cd/lm		\checkmark
LEDs/each optic	1		
Light colour	White	a.	
Required components:			
Protective plate	e, glass		
			300
		3)**	0



OSRAM		TAYYAT
Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (2W version)	30
FWHM / FWTM	Asymmetric	
Efficiency	93 %	604 604
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	200
Light colour	White	45* 250 45*
Required components:		300
		30
		30° 400 30°
		³⁰ 15 ² 0 ⁶ 15 ⁴ 30
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 Flat	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	\times / $+$ \times / \times
Light colour	White	45*
Required components:		300
		\times / \times
		400
		\times / \mid \setminus \times
		30° 45° 0° 10° 30°
OSRAM Opto Semiconductors		
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	730 50 750
Efficiency	65 %	
Peak intensity	0.6 cd/lm	604 604
LEDs/each optic	1	250
Light colour	White	
Required components:		19 <u>200</u> 19
required components.		
Protective plate	, glass	
		30
		30* 15* 360 15* 30*
OSRAM Onto Semiconductors		20 ¹⁰ 20 ¹ 20 ¹ 30 ²
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	24 ⁴ 25 ³ 260 25 ⁴ 29 ⁴
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	120 100 100 100 100 100 100 100 100 100
opto Semiconductors LED FWHM / FWTM	Asymmetric	20 ¹⁰ 20 ¹
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 70 %	20 ¹ 20 ² 20 ² 10 ²
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 70 % 0.5 cd/lm	20 ¹ 20 ² 20 ² 10 ²
^{opto semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 70 % 0.5 cd/lm 1	20 ³ 20 ³ 10 ³ 20 ⁴ 10 ⁴ 20 ⁴ 10 ⁴ 10 ⁴ 20 ⁴ 10 ⁴ 10 ⁴ 20 ⁴ 10 ⁴ 10 ⁴ 10 ⁴ 20 ⁴ 10 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 70 % 0.5 cd/lm	20 ³ 20 ³ 10 ³ 20 ⁴ 10 ⁴ 20 ⁴ 10 ⁴ 10 ⁴ 20 ⁴ 10 ⁴ 10 ⁴ 20 ⁴ 10 ⁴ 10 ⁴ 10 ⁴ 20 ⁴ 10 ⁴
^{opto semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 70 % 0.5 cd/lm 1	20 ³ 80 10 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 70 % 0.5 cd/lm 1 White	20 ³ 20 10 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 70 % 0.5 cd/lm 1 White	20 ³ 20 10 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 70 % 0.5 cd/lm 1 White	10 ² 200 10 ²



PHILIPS		
LED	Fortimo FastFlex LED 2x8 DAX G4	90° 90°
FWHM / FWTM		730 700
Efficiency	Asymmetric 90 %	
Peak intensity	0.9 cd/lm	.50° 100 50°
LEDs/each optic	1	X 140 X
Light colour	White	$\times \times / \land \times \times$
Required components:	white	200 45"
required componente.		
		30° 25° 30°
SAMSUN	IG	
LED	HiLOM RH12 Z (LH351C)	~ ~ ~ ~
FWHM / FWTM	Asymmetric	
Efficiency	71 %	
Peak intensity	0.6 cd/lm	60*
LEDs/each optic	1	
Light colour	White	45* 200 45*
Required components:		
		20
Protective plat	e, glass	300
		30* 350 34
	10	15 ⁵ 0 ⁶ 15 ⁶
SAMSUN	16	90* 90*
LED	LH351C	
FWHM / FWTM	Asymmetric	
Efficiency	68 %	100 Ent
Peak intensity	0.5 cd/lm	10
LEDs/each optic	1	$\times \times / \top \times \times$
Light colour	White	45° 200 45°
Required components:		20
Protective plat		
Fiblective plat	, yiass	30
		30° 15° 0° 15° 30°
SEQUE		⁵⁰⁰ <u>+11</u> <u>500</u> <u>41</u> <u>-10</u>
SEOUL SEMICONDUCTOR		130° <u>55¹</u> 0° <u>15</u> ° 0° 90° <u>90°</u>
SEOUL SEMICONDUCTOR	Acrich MJT 4040	
seoul semiconductor LED FWHM / FWTM	Asymmetric	20 ¹ 20 ¹ 0 ² 10 ² 0 ²
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 92 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.9 cd/lm	50° 0° 10° 0° 50° 0° 10° 0° 10° 0°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.9 cd/lm 1	
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.9 cd/lm	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.9 cd/lm 1	20 20 20 20 20 20 20 20 20 20
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.9 cd/lm 1	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.9 cd/lm 1	



SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
	MJT 5050	730 790
FWHM / FWTM	Asymmetric	
Efficiency	88 %	60° 60°.
Peak intensity	0.6 cd/lm	150
LEDs/each optic		
Light colour	White	-65°
Required components:		20
		200
		30° 30° 30° 30°
SEOUL		
SEOUL SEMICONDUCTOR		90° 90°
LED	SEOUL DC 5050 6V	
FWHM / FWTM	Asymmetric	78
Efficiency	91 %	
Peak intensity	0.6 cd/lm	150
LEDs/each optic	1	$\times \times / \wedge \times \times$
Light colour	White	45° 200 65°
Required components:		20
		300
		30* 30
SEOUL		15 ³ 0 ⁶ 15 ⁴
SEOUL SEMICONDUCTOR		90* 90*
LED	Z5M3	
FWHM / FWTM	Asymmetric	TR. TO TR.
Efficiency	70 %	100
Peak intensity	0.5 cd/lm	60*
LEDs/each optic	1	120
Light colour	White	45° 200 45°
Required components:		
		250
Protective plate	e, glass	
		30* 30*
(152 00 132
SEOUL		90* 90*
LED	Z5M4	
FWHM / FWTM	Asymmetric	25. 26.
Efficiency	69 %	- 100
Peak intensity	0.5 cd/lm	50 ⁴ 250 60*
LEDs/each optic	1	
Light colour	White	65° 65°
Required components:		X Tot X
		× + 30 × ×
Protective plate	e, glass	X X
		100



SEOUL	
SEOUL SEMICONDUCTOR	
LED	Z8Y19
FWHM / FWTM	Asymmetric
Efficiency	88 %
Peak intensity	0.5 cd/lm
LEDs/each optic	4
Light colour	White
Required components	5:



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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