

STRADA-2X2-TF

Narrow forward throw beam optimized for European tunnels

TECHNICAL SPECIFICATIONS:

Dimensions	50.0 x 50.0 mm
Height	8.7 mm
Fastening	screw
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

ComponentTypeMaterialColourFinishSTRADA-2X2-TFMulti-lensPMMAclear

ORDERING INFORMATION:

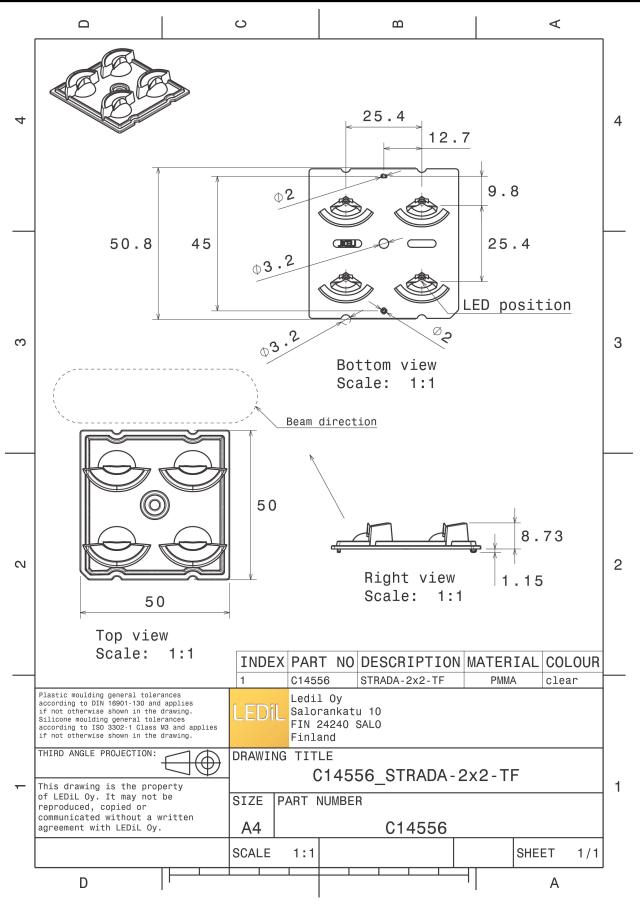
Component

C14556_STRADA-2X2-TF » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
800	160	160	6.5



PRODUCT DATASHEET C14556_STRADA-2X2-TF



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

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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x4 xxx LS G5 Asymmetric 94 % 2 cd/lm 1 White hts:	97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x6 xxx LS G5 Asymmetric 94 % 1.9 cd/lm 1 White hts:	90 90 90 90 90 90 90 90 90 90 90 90 90 9
CREE LED	XP-G2 Asymmetric 94 %	200 30 ¹ 20 ² 20
Efficiency Peak intensity LEDs/each optic Light colour Required componer	2.1 cd/lm 1 White	60° (64) 50° (5° 200
	XP-G3	20° 15° 0° 15° 20°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.7 cd/lm 1 White	2. 200 d. 9. 00 00 00 00 00 00 00 00 00 00 00 00 00
Required componer	nts:	200 200 200 200 200 200 200 200 200 200



UMIL	EDS	90* 90*
LED	LUXEON T	
FWHM / FWTM	Asymmetric	75° 400 77°
Efficiency	94 %	
Peak intensity	2 cd/lm	60 ¹ 1230
LEDs/each optic	1	
Light colour	White	451
Required compone		200
		200
		2000
		30* 15 ⁵ 3880 15* 30*
MST Your solu	ions	
LED		90* 90*
LED FWHM / FWTM	RecLED 122x50mm 1900lm 730 2x4 Opt G1	75.
	Asymmetric 97 %	800
Efficiency Book intensity	97 % 2 cd/lm	50* 50*
Peak intensity		
LEDs/each optic	1	1650
Light colour	White	45.
Required compone	nts:	
		\times
		30* <u>30</u> ° <u>30</u> ° <u>30</u> °
		gr*
LED	NVSW3x9A	294 60 297
LED FWHM / FWTM	NVSW3x9A Asymmetric	
LED FWHM / FWTM Efficiency	NVSW3x9A Asymmetric 94 %	92 ⁴ 95 ⁴ 84 ⁴ 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity	NVSW3x9A Asymmetric 94 % 1.6 cd/lm	84 96 pt
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White	26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White	8 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White	8 ¹ 99 1299 5 ¹ 9 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White	8 ¹ 99 1299 5 ¹ 9 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White	8 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 1.6 cd/Im 1 White nts:	6 ¹ 1279 6 ² 160 7 160 7 160 7 160 7 160 7 160 7 17 100 7 1 100 7 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts:	6 ¹ 1279 6 ² 160 7 160 7 160 7 160 7 160 7 160 7 17 100 7 1 100 7 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts:	64 69 1279 67 160 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts:	64 69 1279 67 160 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts: NVSxE21A Asymmetric 94 %	64 69 1279 67 160 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts: NVSxE21A Asymmetric 94 % 2.9 cd/lm	64 69 1279 67 160 000 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts: NVSxE21A Asymmetric 94 % 2.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts: NVSxE21A Asymmetric 94 % 2.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts: NVSxE21A Asymmetric 94 % 2.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts: NVSxE21A Asymmetric 94 % 2.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts: NVSxE21A Asymmetric 94 % 2.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Micency ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts: NVSxE21A Asymmetric 94 % 2.9 cd/lm 1 White	61



OSRAN	4	
LED	PrevaLED Brick HP 2x8	8*
FWHM / FWTM	Asymmetric	751 400 772
	94 %	
Efficiency		10 The second
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	100
Light colour	White	47 <u>2000</u> 47
Required compone	ents:	200
		200
		200
		30° 220 0° 35° 0°
OSRAM		
Opto Semiconductors		10°
LED	OSLON Square CSSRM2/CSSRM3	72 400
FWHM / FWTM	Asymmetric	80
Efficiency	94 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 2000 45°
Required compone	ents:	
		260
		200
		30° 220 0° 35° 0°
000414		
OSRAM		
Opto Semiconductors		9°
Opto Semiconductors	OSLON Square PC	90° 99°
opto Semiconductors LED FWHM / FWTM	Asymmetric	90* 99* 73* 000 79*
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 %	90* 99* 73* 000 99*
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 2.2 cd/lm	50' 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 2.2 cd/lm 1	50 ⁻ 50 ⁻
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.2 cd/lm 1 White	50 ⁻ 50 ⁻
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 2.2 cd/lm 1 White	50 ⁴ 509
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.2 cd/lm 1 White	50 ⁻ 50 ⁻
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.2 cd/lm 1 White	50 ⁻ 50 ⁻
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.2 cd/lm 1 White	50 ⁻ 50 ⁻
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 2.2 cd/lm 1 White	60 ¹ 60 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 2.2 cd/lm 1 White ents:	60 ⁴ 60 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 2.2 cd/lm 1 White ents:	60 ¹ 60 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE LED FWHM / FWTM	Asymmetric 94 % 2.2 cd/lm 1 White ents: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone ED LED FWHM / FWTM Efficiency	Asymmetric 94 % 2.2 cd/lm 1 White ents:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone ED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 2.2 cd/lm 1 White ents:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 2.2 cd/lm 1 White ents:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.2 cd/lm 1 White ents:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 2.2 cd/lm 1 White ents:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.2 cd/lm 1 White ents:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.2 cd/lm 1 White ents:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.2 cd/lm 1 White ents:	



PHILIF	S	90°
LED	Fortimo FastFlex LED 2x8 DA G4+	a de la de l
FWHM / FWTM	Asymmetric	
Efficiency	97 %	50* 800 50'
Peak intensity	1.7 cd/lm	1290
LEDs/each optic	1	$X \times / T \setminus X \times$
Light colour	White	45* 1600 45'
Required compone	115.	200
		2400
		30* <u>15</u> ⁵ 2800 15* 30*
PHILIF	S	90* 90
LED	Fortimo FastFlex LED 2x8 DA G5	
FWHM / FWTM	Asymmetric	75%
Efficiency	97 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	1690
Light colour	White	6° 6'
Required compone	nts:	2450
		3200
		30" 15 ⁵ 0 ⁰ 15" 30"
SAMSI	ING	
		90°
LED	HiLOM RC12 Z (LH181B)	50° 50'
LED FWHM / FWTM	HiLOM RC12 Z (LH181B) Asymmetric	92*
LED FWHM / FWTM Efficiency	HiLOM RC12 Z (LH181B)	29°
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RC12 Z (LH181B) Asymmetric 99 %	90° 73° 600 600 600 600 600 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White	
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White	90° 100 100 60° 200 60° 200 60° 60° 60° 60° 60° 60° 60° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White Ints:	60. 200 220
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White Ints:	60. 200 220
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HILOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White Ints:	60. 200 220
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White Ints:	5°. 300 300 300 300 300 300 300 300 300 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White Ints:	60. 200 220
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSI LED FWHM / FWTM Efficiency Peak intensity	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ints:	5°. 300 30° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ints:	
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 RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ints:	



SAMSL	JNG	50° 50°
LED	HiLOM RH16 (LH351C)	
FWHM / FWTM	Asymmetric	730 400 75
Efficiency	94 %	
Peak intensity	1.8 cd/lm	60*
LEDs/each optic	1	
Light colour	White	45* 1600 45
Required component	nts:	
		2400
		2200
0 0 0 0 0 0		112 ¹ 04 114.
SAMSU	JNG	90* 90*
LED	LH351B	
FWHM / FWTM	Asymmetric	75% 400 763
Efficiency	94 %	504 800 504
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	1220
Light colour	White	45* 1600 65*
Required compone	nts:	
		2430
		30* <u>15⁵</u> 78 ⁶ 0 <u>15</u> * 30*
S C 11 8 C		
Elektronik GmbH		80° 00'
LED	LED-Pa-L15c2W11c2-xxx-C050-01	20 ⁻
LED FWHM / FWTM	Asymmetric	90 ¹ 73 ¹ 80 ⁵
LED FWHM / FWTM Efficiency	Asymmetric 97 %	751 00
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 2.2 cd/lm	22
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 2.2 cd/lm 1	23
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White	23 00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 2.2 cd/lm 1 White	23
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White	23
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White	23
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White	23
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 97 % 2.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 97 % 2.2 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 97 % 2.2 cd/lm 1 White nts: Z5M3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer seous semiconductor LED FWHM / FWTM	Asymmetric 97 % 2.2 cd/lm 1 White nts: Z5M3 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componed seous semiconductor LED FWHM / FWTM Efficiency	Asymmetric 97 % 2.2 cd/lm 1 White nts: Z5M3 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer seous semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 2.2 cd/lm 1 White Ints: Z5M3 Asymmetric 94 % 1.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component store semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 2.2 cd/lm 1 White Ints: Z5M3 Asymmetric 94 % 1.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component seous semiconoucron LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component seous semiconourcon LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 2.2 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 1.7 cd/lm 1 White	



SEOUL			FHT
SEOUL SEMICONDUCTOR	Z8Y22	- 50*	90*
EED FWHM / FWTM	Asymmetric	751	400 730
Efficiency	94 %		
Peak intensity	1.9 cd/lm	564	300 604
LEDs/each optic	1		1290
Light colour	White	8°	
Required compone		-67	1600 45*
	511to.		2000
		XT	2430
		30* 133	0° 15° 30°
SEOUL			EFT
SEOUL SEMICONDUCTOR		<u>90*</u>	90*
LED	Z8Y22P	75	400 75°
FWHM / FWTM	Asymmetric		
Efficiency	94 %	50 ⁴	800 60*
Peak intensity	1.7 cd/lm		1200
LEDs/each optic	1		$\top \land \checkmark \checkmark$
Light colour	White	5	1600 45+
Required compone	ents:		
			2000
			2400
		30* 495	0° 15° 30°
TOSHIBA			
Leading Innovation >>>		90*	90*
LED	TL1L4	254	782
FWHM / FWTM	Asymmetric		800
Efficiency	91 %	50 ⁵	604
Peak intensity	2 cd/lm		
LEDs/each optic	1		1630
Light colour	White		
Required compone	ents:		
			2400
		\times /	
		30* 23	.0° 30*
TRIDO			
LED	RLE 2x4 2000lm HP EXC2 OTD		
FWHM / FWTM	Asymmetric		
Efficiency	94 %		
Peak intensity	2.2 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone	ents:		



TERDONIC LED RLE 28 400011 HP EX22 OTD PMM / FV/TM Asymmetric Efficiency 94 % Required components: Image: Components in the component in the components in the components in the component in the compo	r		
LED RLE 24 4000m HP EXC2 OTD FVH4/ FVTM A symmetric Efficiency 94 % Pook iterative 2 2 othm LED each of poil Required components:	TRIDON	IIC	
FWHM /FVTM Asymmetric Efficiency 94 % Peak Intensity 2.2 adm LEDweech optic 1 Light colour White Required components:			90* 90*
Efficiency 94% Peak intensity 2.2 addm Light dolar White Required components:			756 77.
Pack intensity 2.2 cd/m LEDulatech cptic 1 LEDulatech cptic 1 LEDulatech cptic 1 LEDulatech cptic 1 LED RLE G1 4xt 21mm 2000m xx EXC OTD FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 2.1 cd/m LEDulatech cptic 1 LEDulatech cptic 1		-	800
LEDveach optic 1 Light colour White Required components:	-		65* 651
Light colour While Required components: TRIDONIC LED RLE G1 49x121mm 2000m xx EXC OTD FWH4/FVTM Asymmetric Emicency 94% Peak Intensity 2.1 odfm LED Read optic 1 LeD RLE G1 49x133mm 2000m xx EXC OTD FWH4/FVTM Asymmetric Emicency 94% Peak Intensity 2.1 odfm LED Read optic 1 Light colour While Required components: TRIDONIC LED RLE G1 49x123mm 2000m xx EXC OTD FWH4/FVTM Asymmetric Emicency 94% Peak Intensity 2.1 odfm LED Read optic 1 Light colour While Required components: TRIDONICE LED RE G1 49x222mm 4000m xx EXC OTD FWH4/FVTM Asymmetric Emicency 94% Peak Intensity 2.1 odfm LED Read optic 1 Light colour While Required components: TRIDONICE LED RLE G1 49x222mm 4000m xx EXC OTD FWH4/FVTM Asymmetric Emicency 94% Peak Intensity 2.1 odfm LED Read optic 1 Light colour While Required components:	-		
Required components:			
TRIDONIC LD RLE G1 49x121mm 2000m xxx EXC OTD FWHM / FVTM Asymmetric Efficiency 94 % Peak Intensity 2.1 cdlm LEDSeach optic 1 Light colour White Required components:			40°
LED RLE G1 49x121mm 2000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED RLE G1 49x133mm 2000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x133mm 2000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x123mm 2000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 colim LED X RLE G1 49x223mm 4000im xx EXC OTD FWHM / FWTM Asymmetric FWHM / FWTM Asymmetric FW			2630
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Required components:			
TRIDONIC LED RLE G1 49x133mm 2000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 2.1 col/m LEDs/each optic 1 Light colour White Required components: Image: Component in the symmetric Efficiency 94% Peak intensity 2.1 col/m LED Required components:	-		600
TRIDONIC LP RLE G1 49x133mm 2000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 culm LEDs/each optic 1 Light colour White Required components: Image: Component in the image: Component			····
TRIDONIC LED RLE G1 49x133mm 2000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/m LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Required components: Image: Component State Stat			
TRIDONIC LED RLE G1 49x133mm 2000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/m LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Required components: Image: Component State Stat			
LED RLE G1 49x133mm 2000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: TRIDONIC LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: Hite Required components:			-115.4" -112.4" -49.4" -46.4" -22.4" -6.4" -27.4" -47.4" -47.4" -112.4" -112.4" -112.4"
LED RLE G1 49x133mm 2000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: TRIDONIC LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: Hite Required components:	TRIDON	IIC	
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Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: TRIDONIC LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components:		-	
LEDs/each optic 1 Light colour White Required components: TRIDONIC LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components:	-	2.1 cd/lm	
Light colour White Required components: TRIDONIC LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/m LEDs/each optic 1 Light colour White Required components:			1299
Required components:		White	1000
TRIDONIC LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Component state sta	-	nts:	••• ••• ••• ••• ••• ••• ••• ••• ••• ••
LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Component state stat			
LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: 1			
LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: 1			
LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components			-18.4* -18.4* -46.4* -46.4* -46.4* -46.4* -46.4* -18.4* -46.4* -46.4* -46.4* -18.4* -18.4*
LED RLE G1 49x223mm 4000lm xxx EXC OTD FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components	TRIDON	IIC	2200
FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************			····
Efficiency 94 % Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components:			1000 +
Peak intensity 2.1 cd/lm LEDs/each optic 1 Light colour White Required components:		-	
LEDs/each optic 1 Light colour White Required components:			1000 -
Light colour White Required components:			1399 -
Required components:			1000 -
			•••
			600

			200
			-135.4" -132.5" -196.4" -47.5" -49.4" -22.5" -6.9" -22.5" -45.4" -47.5" -97.4" -132.5"

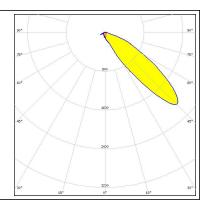


TRIDONIC

LED

FWHM / FWTM As Efficiency 94 Peak intensity 2. LEDs/each optic 1 Light colour W Required components:

RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White





		90* 90*
LED	XP-G2 HE	90* 90*
EUD FWHM / FWTM	Asymmetric	75° 400 75°
Efficiency	91 %	
Peak intensity	91.% 1.4 cd/lm	60° 800 60°
LEDs/each optic	1 White	1220
Light colour Required components:	white	45° 45°
Required components.		\times / \times
		200
		30* 15 ⁵ 0* 15* 30*
LED	XP-G3	
FWHM / FWTM	Asymmetric	73% 400 75°
Efficiency	79 %	
Peak intensity	1.3 cd/lm	50 ⁴ 800 604
LEDs/each optic	1	
Light colour	White	45* 1220 45*
Required components:		\times
		1000
Protective plate	e, glass	
		2000
		30° 30°
		90°
	XP-G3	90 ⁻ 90 ⁻
		10 ⁻ 10
LED	XP-G3 Asymmetric 84 %	
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 84 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 1.5 cd/lm	23
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 1.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 1.5 cd/lm 1 White	5 ³ 00 6 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 1.5 cd/lm 1 White	5 ³ 60 60 6 ⁵ 80 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 1.5 cd/lm 1 White	5 ³ 00 6 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 84 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 84 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 84 % 1.5 cd/lm 1 White P, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 84 % 1.5 cd/m 1 White P, glass XT-E Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate	Asymmetric 84 % 1.5 cd/m 1 White P, glass XT-E Asymmetric 78 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate	Asymmetric 84 % 1.5 cd/lm 1 White Asymmetric 78 % 1.5 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 84 % 1.5 cd/lm 1 White Asymmetric 78 % 1.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREE CLED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 1.5 cd/lm 1 White Asymmetric 78 % 1.5 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 84 % 1.5 cd/lm 1 White Asymmetric 78 % 1.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREE CLED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 1.5 cd/lm 1 White XT-E Asymmetric 78 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate CREE CLED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 1.5 cd/lm 1 White XT-E Asymmetric 78 % 1.5 cd/lm 1 White	



		90* 90*
LED	XT-E	
FWHM / FWTM	Asymmetric	730 400 76°
Efficiency	92 %	200
Peak intensity	1.7 cd/lm	.50 ⁴ 604
LEDs/each optic	1	1200
Light colour	White	45* 1000 55*
Required components:	White	
required components.		2000
		2430
		30° 2200 30° 15° 0° 15° 30°
)S	90 ⁴ 90 ⁴
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	Asymmetric	73° 400 73°
Efficiency	94 %	
Peak intensity	1.8 cd/lm	604 604
LEDs/each optic	1	1200
Light colour	White	45° 1600 43°
Required components:		2000
		2400
		2200
		30* <u>19² 0⁰ 10*</u> 30*
)S	90* 90* 90*
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	Asymmetric	750 400 752
Efficiency	80 %	
Peak intensity	1.6 cd/lm	.60* 800 60*
LEDs/each optic	1	1220
Light colour	White	
Required components:		1000
required components.		
Protective plate	e, glass	X/T/X
		2430
		30* 30*
1		
	S	20° 0° 15
		84. 15. 6. 18.
LED	LUXEON HL2X	21 ⁴ 000 75 ⁴
LED FWHM / FWTM	LUXEON HL2X Asymmetric	24° 400 29° 400 90° 75° 75°
LED FWHM / FWTM Efficiency	LUXEON HL2X Asymmetric 93 %	73* 400 75*
LED FWHM / FWTM Efficiency Peak intensity	LUXEON HL2X Asymmetric	73* 400 75*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON HL2X Asymmetric 93 % 1.5 cd/m	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	LUXEON HL2X Asymmetric 93 % 1.5 cd/m 1	73* 493 75° 64* 699 68*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON HL2X Asymmetric 93 % 1.5 cd/m 1	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	LUXEON HL2X Asymmetric 93 % 1.5 cd/m 1	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	LUXEON HL2X Asymmetric 93 % 1.5 cd/m 1	20 00 00 00 00 00 00 00 00 00 00 00 00 0



UMILEC	DS	90° 92
LED	LUXEON HL2X-P	
FWHM / FWTM	Asymmetric	73.0 400
Efficiency	93 %	
Peak intensity	1.3 cd/lm	50° 800
LEDs/each optic	1	$\vee \times \times \vee$
Light colour	White	45*
Required components:		1000
		X/T/X
		2000
		30* 15 ⁵ 2820 15* 3
ΜΝΙCΗΙΛ		90° 9
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	750 400 7
Efficiency	92 %	
Peak intensity	1.6 cd/lm	bor 6
LEDs/each optic	1	1290
Light colour	White	45* 1000 4
Required components:		X X
		200
		2430
		30*
~		18 ³
ΜΝΙCΗΙΛ		
		90* 90
LED	NWSx229A	×-
	NWSx229A Asymmetric	92 ³ 8
LED		97 9 193
LED FWHM / FWTM	Asymmetric	973
LED FWHM / FWTM Efficiency	Asymmetric 92 %	925 - 9 235 - 409 - 9 60 ⁴ - 909 - 6
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 1.2 cd/lm	50° - 120 - 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.2 cd/lm 1	52 ⁻ 52 ⁻ 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.2 cd/lm 1	57 50 57 60 65 65 120 67 120 6 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.2 cd/lm 1	57 57 60 67 120 6 100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.2 cd/lm 1	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat	30 ⁺ 30 ⁰ 30 ⁺
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 %	100 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 % 1.6 cd/lm 1	20 ⁻
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 % 1.6 cd/lm 1	5° 100 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.2 cd/lm 1 White OSCONIQ P 3737 Flat Asymmetric 94 % 1.6 cd/lm 1	5° 100 00 00 00 00 00 00 00 00 00 00 00 00



OSRAM Opto Semiconductors		90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75° 400 77°
Efficiency	84 %	
Peak intensity	1.5 cd/lm	-400 × 100
	1	1200
LEDs/each optic Light colour	White	
Required components:	Wille	- 45°
Required components.		
Protective plate	e, glass	2000
		2830
		30* <u>15</u> ³ 0° 15* 30*
PHILIPS		90° 90°
LED	Fortimo FastFlex LED 2x8 DAX G4	
FWHM / FWTM	Asymmetric	736 400 736
Efficiency	93 %	
Peak intensity	1.4 cd/lm	50° 800 60°.
LEDs/each optic	1	
Light colour	White	45* 65*
Required components:		1090
		\times
		2000
		30* 2400 30* 30*
SAMSUN	IG	
LED		90°
FWHM / FWTM	LH351B	73%
Efficiency	Asymmetric 81 %	
	1.3 cd/lm	50° 50°
Peak intensity LEDs/each optic	1	
Light colour	White	1290
Required components:	white	· · · · · · · · · · · · · · · · · · ·
Required components.		1690
Protective plate	e, glass	
		30* 15 ⁵ 28 ³ 50 15* 30*
SAMSUN	IG	90* A A A A A A A A A A A A A A A A A A A
LED	LH351C	
FWHM / FWTM	Asymmetric	73% 400 77*
Efficiency	94 %	
Peak intensity	94 % 1.5 cd/lm	. 50 ⁴ 900 50 ⁴ .
LEDs/each optic	1.5 cd/m 1	1270
Light colour	White	$\times \times / \top \setminus \times \times$
Required components:	AALUCE	45* 1500 45*
required components:		
		2430
		30° 45 ⁵ 0° 15° 30°



SAMSUN	IG	90* 90
LED	LH351C	
FWHM / FWTM	Asymmetric	75 400 75
Efficiency	83 %	
Peak intensity	1.3 cd/lm	60° 60
LEDs/each optic	1	1200
Light colour	White	at a
Required components:		1570
Protective plate	, glass	2000
		30* <u>15</u> * <u>30</u> 0 <u>15</u> * <u>30</u>
SAMSUN	IG	90 ⁺ 96 ⁺
LED	LH351D	
FWHM / FWTM	Asymmetric	75* 75
Efficiency	88 %	
Peak intensity	1.2 cd/lm	60* 000 60
LEDs/each optic	1	
Light colour	White	45° 1220 45'
Required components:		
		1650
		\times / \land \times
		30° 15° 2000 15° 30°
SAMSUN	IG	
LED		90 ⁺ 90 ⁺
	LM301B	739 400 75
FWHM / FWTM	Asymmetric	
FWHM / FWTM Efficiency	Asymmetric 95 %	0° 0°
FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 1.8 cd/m	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 1.8 cd/lm 1	0
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 1.8 cd/m	0 ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° ° °
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 1.8 cd/lm 1	0 ¹ 00 00 00 00 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 1.8 cd/lm 1	0 ¹ 00 00 00 00 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 1.8 cd/lm 1	40 ⁻ 100 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 1.8 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 1.8 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 1.8 cd/lm 1 White Z5M1/Z5M2	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED FWHM / FWTM	Asymmetric 95 % 1.8 cd/lm 1 White Z5M1/Z5M2 Asymmetric	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seour semiconductor LED FWHM / FWTM Efficiency	Asymmetric 95 % 1.8 cd/lm 1 White Z5M1/Z5M2 Asymmetric 94 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: secure semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 1.8 cd/lm 1 White Z5M1/Z5M2 Asymmetric 94 % 1.8 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seous semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 1.8 cd/lm 1 White Z5M1/Z5M2 Asymmetric 94 % 1.8 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 1.8 cd/lm 1 White Z5M1/Z5M2 Asymmetric 94 % 1.8 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seous semiconoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 1.8 cd/lm 1 White Z5M1/Z5M2 Asymmetric 94 % 1.8 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: secure semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 1.8 cd/lm 1 White Z5M1/Z5M2 Asymmetric 94 % 1.8 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 1.8 cd/lm 1 White Z5M1/Z5M2 Asymmetric 94 % 1.8 cd/lm 1	



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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