

PRODUCT DATASHEET C15021_STRADA-2X2-SCL

STRADA-2X2-SCL

Type II/III (long) beam for very wide pole to pole distances. Ideal for pedestrian paths and residential roads. EN13201 P-classes.

TECHNICAL SPECIFICATIONS:

Dimensions Height Fastening ROHS compliant 50.0 x 50.0 mm 7.8 mm pin, screw yes ①



MATERIAL SPECIFICATIONS:

Component STRADA-2X2-SCL

Туре	
Multi-lens	

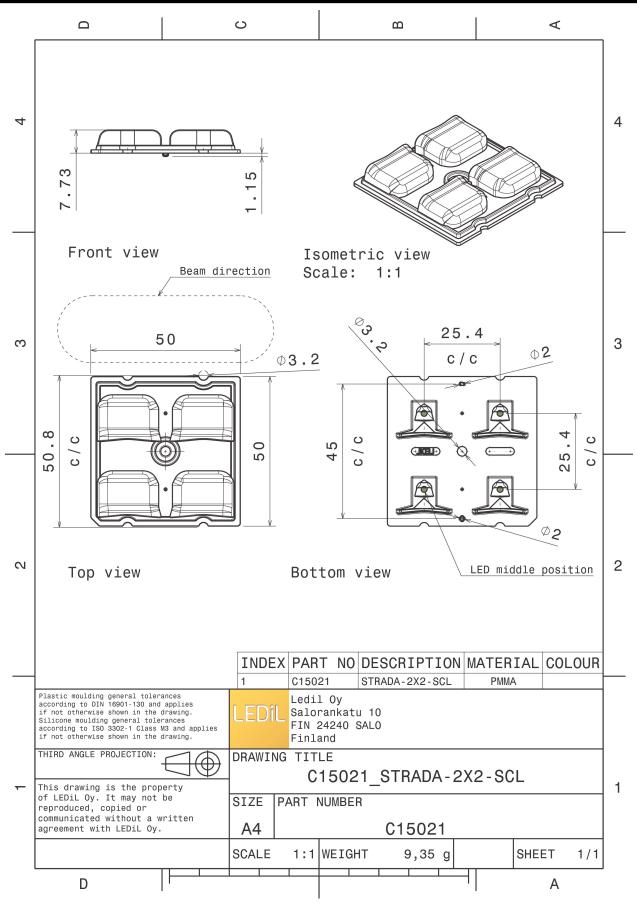
Material	Colour	Finish
PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C15021_STRADA-2X2-SCL	800	160	160	8.3
» Box size: 480 x 280 x 300 mm				



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



bridgelux.		90° 90°
LED	Bridgelux SMD 5050	
FWHM / FWTM	Asymmetric	72 - 200
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60° 60°.
LEDs/each optic	1	
Light colour	White	
Required componer		
		600
		700
		000
		30* 15 [*] 0 [*] 30*
		90° 90°
	QUICK FLUX XTP 2x4 xxx LS G5	90° - 90°
FWHM / FWTM	Asymmetric	734 700 700 700
Efficiency	94 %	
Peak intensity	1 cd/lm	. 50 ⁴ 400 60 ⁴
LEDs/each optic	1	× + 000
Light colour	White	
Required componer		- 43
		1000
		1200
		30* 15 ⁵ 1030 15* 30*.
COMET		
		82
LED	QUICK FLUX XTP 2x6 xxx LS G5	23 ⁴ 25 ⁴
LED FWHM / FWTM	Asymmetric	90° 73°
LED FWHM / FWTM Efficiency	Asymmetric 94 %	99° 75° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm	99° 73° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	50° 50° 30° 60° 50° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White	
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°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	97 23 67 60 67 60 69 67 69 69 67 69 69 67 69 69 67 69 69 69 69
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White hts: QUICK FLUX XTP 2x8 xxx LS G5	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White Its: QUICK FLUX XTP 2x8 xxx LS G5 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White Its: QUICK FLUX XTP 2x8 xxx LS G5 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White tts: QUICK FLUX XTP 2x8 xxx LS G5 Asymmetric 94 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White tts: QUICK FLUX XTP 2x8 xxx LS G5 Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White tts: QUICK FLUX XTP 2x8 xxx LS G5 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White tts: QUICK FLUX XTP 2x8 xxx LS G5 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White tts: QUICK FLUX XTP 2x8 xxx LS G5 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White tts: QUICK FLUX XTP 2x8 xxx LS G5 Asymmetric 94 % 1 cd/lm 1 White	



CREE 4		
LED	XD16	90° 99
FWHM / FWTM	Asymmetric	73*
Efficiency	94 %	
Peak intensity	0.8 cd/lm	iço* 300 60
LEDs/each optic	4	400
Light colour	White	
Required compone		60
		740
		30* <u>13*</u> 0* 13* 30
CREE (
LED	XD16	
FWHM / FWTM	Asymmetric	181
Efficiency	94 %	400
Peak intensity	1.1 cd/im	80 ⁵ 800
LEDs/each optic	1	$X \times / T \setminus X \times$
Light colour	White	80 KG
Required compone	nts:	1000
		1430
		30° 15 ³ 1690 15° 30
CREE (30°
LED	XM-L3	
FWHM / FWTM	Asymmetric	200 200 75
Efficiency	94 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	eia X
Light colour	White	
Required compone	nts:	800
		1000
		30° 1250 0° 10° 10° 30
CREE (90* 5
LED	XP-G2	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	400
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	90
Light colour	White	6° 1000 6
Required compone	nts:	
		1200
		2430
		30° 1500 30° 35° 30



CREE \$		
	b	90*
LED	XP-G2 HE	
FWHM / FWTM	Asymmetric	75 75
Efficiency	94 %	
Peak intensity	1 cd/lm	601* 400 60*
LEDs/each optic	1	
Light colour	White	45*
Required componer	ts:	
		X X
		1000
		30° 30°
		1200 15*
CREE 🗧	▶ ₩	90* 90
LED	XP-G3	
FWHM / FWTM	Asymmetric	751 75
Efficiency	94 %	400
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	65° 200 65'
Required componer	ts:	
		1290
		30* 13 ⁵ 1490 15* 30'
CREE \$		
		90+ 90
LED	XP-L HD	
FWHM / FWTM	Asymmetric	
Efficiency	78 %	60 ⁴ 60 ⁴
Peak intensity	0.6 cd/lm	
LEDs/each optic	1 White	40
Light colour Required componer		
Required componen	15.	
D		
Protective	plate, glass	600
Protective	plate, glass	70
		20° 700 20* 12 ⁵ 0 ⁴ 13 ⁵ 20'
		20 ⁰ 70 20 ² 0 ⁴ 20 ⁵ 20 ⁵ 20 ⁵
CREE \$		70 70 30 ⁺ 22 ⁺ 0 ⁺ 20 ⁺ 30 ⁺
	XP-L HD	20 20 20 20 20 20 20 20 20 20
	XP-L HD Asymmetric	99° 52° 50° 52° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50
CREE ¢ LED FWHM / FWTM Efficiency	XP-L HD Asymmetric 94 %	99° 52° 50° 52° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50
CREE LED FWHM / FWTM Efficiency Peak intensity	XP-L HD Asymmetric 94 % 0.9 cd/lm	99° 52° 50° 52° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50
CREE ¢ LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L HD Asymmetric 94 % 0.9 cd/lm 1	
CREE ¢ LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HD Asymmetric 94 % 0.9 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
CREE ¢ LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L HD Asymmetric 94 % 0.9 cd/lm 1 White	
CREE ¢ LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HD Asymmetric 94 % 0.9 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
CREE ¢ LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HD Asymmetric 94 % 0.9 cd/lm 1 White	



CREE ÷	•	
LED	™ XP-L2	90° 90°
FWHM / FWTM	Asymmetric	754 754
Efficiency	94 %	
Peak intensity	0.8 cd/m	.60°
LEDs/each optic	1	40
Light colour	White	
Required componer		60
	no.	
		000
		30* 1000 30* 30*
LED	EHP-2x8-3535	90* 90*
FWHM / FWTM	Asymmetric	754 754
Efficiency	96 %	
Peak intensity	1 cd/lm	.60° 400 60°.
LEDs/each optic	1	
Light colour	White	
Required componer		3 <u>av</u>
		1000
		\times
		1230
		30* 30*
		15° 0° 15°
	EHD-2x8-5050	90 ⁴ 90 ⁵
LED	EHP-2x8-5050	23 ³ 25 ³ 25 ³ 4 ³ 15 ³ 4 ³ 15 ³
LED FWHM / FWTM	Asymmetric	25° 0° 55′ 25° 0° 55′ 25° 7° 55′
LED FWHM / FWTM Efficiency	Asymmetric 96 %	25 [°] 0 [°] 15 [°] 90 [°]
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 96 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 96 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 96 % 0.6 cd/lm 1 White	2 ³ 2 ³ 2 ³ 2 ³ 2 ³ 4 ³ 4 ³ 4 ³ 5 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 0.6 cd/lm 1 White	80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 96 % 0.6 cd/lm 1 White hts:	60 00 20 ¹ 20 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 96 % 0.6 cd/lm 1 White hts:	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 96 % 0.6 cd/lm 1 White hts: EDS LUXEON 5050 Round LES	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 component Mequired component LED FWHM / FWTM	Asymmetric 96 % 0.6 cd/lm 1 White hts: EDS LUXEON 5050 Round LES Asymmetric	60 00 20 ¹ 20 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Mequired component ELUMIL LED FWHM / FWTM Efficiency	Asymmetric 96 % 0.6 cd/lm 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 %	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 component Mequired component Equired component Component Required component Efficiency Peak intensity	Asymmetric 96 % 0.6 cd/lm 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/lm	60 00 20 ¹ 20 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Mequired component Equired component Eled FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 96 % 0.6 cd/lm 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/lm 1	60 00 20 ¹ 20 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Equired component Component Required component Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 0.6 cd/lm 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/lm 1 White	60 00 20 ¹ 20 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	Asymmetric 96 % 0.6 cd/lm 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/lm 1 White	60 00 20 ¹ 20 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Methods and the second second Every Component Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 0.6 cd/lm 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/lm 1 White	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 component Equired component Component Required component Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 0.6 cd/lm 1 White hts: EDS LUXEON 5050 Round LES Asymmetric 94 % 0.7 cd/lm 1 White	60 00 20 ¹ 20 ¹





MST Your solu	tions	90°
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	70
Efficiency	95 %	
Peak intensity	0.9 cd/lm	60° X / 1 X /
LEDs/each optic	1	
Light colour	White	
Required compone		80
		1000
		1200
		30° 15° 0° 15°
ØNICHI ∕	L	90°
LED	NVSW319B	
FWHM / FWTM	Asymmetric	754
Efficiency	94 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	500
Light colour	White	45*
Required compone	ints:	00
		1000
		1220
		13 ⁴ 6 ⁸ 13 ⁴
ØNICHI∕		90*
LED	NVSW3x9A	
FWHM / FWTM	Asymmetric	75
Efficiency	94 %	50* 400
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required compone	ints:	80
		20° - 12° - 12°
		30° 12 ⁰ 130 13°
		20° 20° 20° 20°
LED	NVSxE21A	20° 120° 120°
LED FWHM / FWTM	NVSxE21A Asymmetric	23° 150 13°
LED FWHM / FWTM Efficiency	NVSxE21A Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	NVSxE21A Asymmetric 94 % 0.4 cd/lm	00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSxE21A Asymmetric 94 % 0.4 cd/lm 1	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxE21A Asymmetric 94 % 0.4 cd/Im 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSxE21A Asymmetric 94 % 0.4 cd/Im 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxE21A Asymmetric 94 % 0.4 cd/Im 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxE21A Asymmetric 94 % 0.4 cd/Im 1 White	



OSRAM	A	THA YATI
LED	PrevaLED Brick HP 2x8	90°
ED FWHM / FWTM		734
Efficiency	Asymmetric 94 %	
Peak intensity	94 % 1.1 cd/lm	507 6
	1	60
LEDs/each optic Light colour	u White	
Required compone		er e
Required compone	ans.	1000
		1200
		1400
		30* 15° 30
OSRAM Opto Semiconductors		95
LED	Duris S8	
FWHM / FWTM	Asymmetric	754 000 754
Efficiency	95 %	
Peak intensity	0.6 cd/lm	60 ⁴ 300 60 ⁴
LEDs/each optic	1	40
Light colour	White	45° 500 657
Required compone		
i i oquiloù oompono		00
		760
		800
		30° 15° 80° 15° 30'
OSRAM		
Onto Semiconductors		90°
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	50° 50'
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3 Asymmetric	24
Opto Semiconductors LED FWHM / FWTM	Asymmetric	314 50
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/lm	24
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	500 500 500 500 500 500 500 500
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1.1 cd/lm 1 White	49 49 1990 1299
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1.1 cd/lm 1 White	60 67 100 170 170 100
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1.1 cd/lm 1 White ents:	6° 6° 1000 1200 200 200 200 200 200 200 200 2
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1.1 cd/lm 1 White ents: OSLON Square PC	6° 6° 1000 1200 200 200 200 200 200 200 200 2
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1.1 cd/lm 1 White ents: OSLON Square PC Asymmetric	6° 6° 1000 1200 200 200 200 200 200 200 200 2
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 % 1.1 cd/lm 1 White ents: OSLON Square PC Asymmetric 94 %	60 5' 100 120 20 20 20 20 20 20 20 20 20 20 20 20 2
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/lm 1 White ents: OSLON Square PC Asymmetric 94 % 0.9 cd/lm	60 5' 109 129 129 20 20 20 20 20 20 20 20 20 20 20 20 20
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1 White ents: OSLON Square PC Asymmetric 94 % 0.9 cd/lm 1	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White ents: OSLON Square PC Asymmetric 94 % 0.9 cd/lm 1 White	60 5' 109 129 129 20 20 20 20 20 20 20 20 20 20 20 20 20
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1 White ents: OSLON Square PC Asymmetric 94 % 0.9 cd/lm 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White ents: OSLON Square PC Asymmetric 94 % 0.9 cd/lm 1 White	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White ents: OSLON Square PC Asymmetric 94 % 0.9 cd/lm 1 White	



PHILIP	2	MA KM
	Fortimo FastFlex LED 2x8 DA G4	90* 90'
LED FWHM / FWTM	Asymmetric	75 - 30 - 701
Efficiency	94 %	$\Lambda \times \times / \Lambda \times /$
Peak intensity	1 cd/lm	.60* 400 60*
LEDs/each optic	1	X / evo X
Light colour	White	$X \times I \times X$
Required componer		et, 900 et,
	lo.	1000
		30* 13 ⁵ 1430 15* 30*
PHILIP	S	90°
LED	Fortimo FastFlex LED 2x8 DA G4+	
FWHM / FWTM	Asymmetric	735
Efficiency	94 %	
Peak intensity	1 cd/lm	60* 400 60*
LEDs/each optic	1	\vee \times \mid \vee \times \vee
Light colour	White	-65' 600
Required componer	ts:	810
		X/T/X
		1000
		15° 1200 15° 30°
SAMSU	ING	50° 50'
LED	HiLOM RC12 Z (LH181B)	
FWHM / FWTM	Asymmetric	3°
Efficiency	95 %	400
Peak intensity		60° 60°
	1 cd/lm	X Koo X /
LEDs/each optic	1 cd/lm 1	
		600 07 07
LEDs/each optic	1 White	60 00 1000
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour Required componer	1 White ts:	100
LEDs/each optic Light colour	1 White ts:	100
LEDs/each optic Light colour Required componer	1 White its: ING HILOM RH12 Z (LH351C)	100
LEDs/each optic Light colour Required componer SAMSU LED FWHM / FWTM	1 White its: ING HiLOM RH12 Z (LH351C) Asymmetric	100
LEDs/each optic Light colour Required componer SAMSU LED FWHM / FWTM Efficiency	1 White ts: ING HILOM RH12 Z (LH351C) Asymmetric 95 %	100
LEDs/each optic Light colour Required componer SAMSU LED FWHM / FWTM Efficiency Peak intensity	1 White its: ING HiLOM RH12 Z (LH351C) Asymmetric	100
LEDs/each optic Light colour Required componer SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White ts:	100
LEDs/each optic Light colour Required componer SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ts:	100
LEDs/each optic Light colour Required componer SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White ts:	100
LEDs/each optic Light colour Required componer SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ts:	100
LEDs/each optic Light colour Required componer SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ts:	100



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LED	HiLOM RH16 (LH351C)	
FWHM / FWTM	Asymmetric	75
Efficiency	94 %	40
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	500
Light colour	White	
Required compone	nts:	80
		30 ³ 15 ³ 0 ⁴ 15 ⁴
<u> </u>		
		h**
LED	HILOM RM12 Z (LH502C)	200
FWHM / FWTM	Asymmetric	
Efficiency	95 %	50° 300
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	et so
Required compone	nts:	60
		70
		**
		30° 29 00 15°
SAMSU		
		54
LED	HiLOM RM16 Z (LH502C)	20 ⁴
LED FWHM / FWTM	HiLOM RM16 Z (LH502C) Asymmetric	
LED FWHM / FWTM Efficiency	HiLOM RM16 Z (LH502C) Asymmetric 96 %	
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White Its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSE EQ FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 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 Light colour	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSE EQ FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSE Equired compone SAMSE Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU Equired compone SAMSU Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White nts:	



_		1
SAMSU		
LED	LH351B	90* 90*
FWHM / FWTM		750 750
Efficiency	Asymmetric 94 %	
	94 % 0.9 cd/lm	60° 400 60°.
LEDs/each optic Light colour	1 White	600
Required componen		45°
	10.	
		1000
		30* <u>1200</u> 30* 30*
SAMSU		
		90* 90*
LED	LH351C	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60° 400 60°,
	0.9 cd/lm	
LEDs/each optic	1	600
5	White	61
Required componen	IS:	900
		1000
		\times
		30° 1200 30° 13° 30°.
SAMSU		
		90° 90°
LED	LH351D	20- 20- 20-
LED FWHM / FWTM	LH351D Asymmetric	50° 50°
LED FWHM / FWTM Efficiency	LH351D Asymmetric 93 %	50° 50° 70° 70° 70°
LED FWHM / FWTM Efficiency Peak intensity	LH351D Asymmetric 93 % 0.7 cd/lm	50° 50° 73° 70° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 93 % 0.7 cd/lm 1	80° 997 70° 70° 70° 70° 70° 70° 70° 70° 70° 70°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 93 % 0.7 cd/lm 1 White	60° 600 60°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 93 % 0.7 cd/lm 1 White	9° 97 75 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 93 % 0.7 cd/lm 1 White	5° 5° 6° 6° 6° 60 6° 60° 6° 60° 6° 60° 6° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 93 % 0.7 cd/lm 1 White	5° 00 6° 60 6° 60 6° 60 6° 60 6° 60 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 93 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LH351D Asymmetric 93 % 0.7 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LH351D Asymmetric 93 % 0.7 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LH351D Asymmetric 93 % 0.7 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANSU LED FWHM / FWTM	LH351D Asymmetric 93 % 0.7 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANSU LED FWHM / FWTM Efficiency	LH351D Asymmetric 93 % 0.7 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANSU LED FWHM / FWTM Efficiency Peak intensity	LH351D Asymmetric 93 % 0.7 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 93 % 0.7 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 93 % 0.7 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 93 % 0.7 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 93 % 0.7 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 93 % 0.7 cd/lm 1 White ts:	



Elektronik GmbH		
LED	LED-Pa-L15c2W11c2-xxx-C050-01	
FWHM / FWTM	Asymmetric	
Efficiency	96 %	
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required componer	ts:	
SEOUL		
SEOUL SEMICONDUCTOR	771/6	90* 90*
LED	Z5M3	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60 ⁴ 400 504
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	63° 63°
Required componer	ts:	200
		\times
		1230
		30* 15 ⁵ 0 ⁶ 15 ⁺ 30*
SEOUL		
SEOUL SEMICONDUCTOR		90° 90°
LED	Z5M4	
FWHM / FWTM	Asymmetric	Me de Me
Efficiency	95 %	400
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	10°
Required componer	ts:	000
		1000
		1230
		30* 15 ⁵ 0* 15* 30*
SEOUL		TAY YAT
SEOUL SEMICONDUCTOR		90°
LED	Z8Y22	
FWHM / FWTM	Asymmetric	No
Efficiency	94 %	$X \times \Pi \times X$
Peak intensity	0.9 cd/lm	60° 400 60°.
LEDs/each optic	1	$\nabla \times (\setminus \times \vee$
Light colour	White	10° 000 00° 00°
Required componer		
		800
		30° 35° 0° 30°
		150 10



SEOUL		
	70//00	90° 90°
	Z8Y22P	The the second sec
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60 ⁴ 400 60 ⁴
Peak intensity	1 cd/lm	
LEDs/each optic	1	X / we
Light colour	White	43° 43°
Required compone	ents:	
		X / X
		30* <u>1230</u> 0* 15 ⁵ 0* 15* 3**
TRIDON	NIC	90" 90"
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	At the second se
Efficiency	94 %	40
Peak intensity	1 cd/lm	.60* 60*
LEDs/each optic	1	
Light colour	White	45" 000 45".
Required compone		
		1000
		1220
		30* 15 ⁵ 0 ⁵ 15* 30*
TDIDON		NY VI
TRIDO		50° 50°
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	y' y'
LED FWHM / FWTM	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric	g*
LED FWHM / FWTM Efficiency	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm	50° 60° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1	51° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White	51° 50° 67°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White	51 ¹ 50 51 ¹ 50 61 ¹ 50 61 ¹ 50 60 61 ¹ 60 60 60 60 60 60 60 60 60 60 60 60 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White	51 ¹ 50 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White	51° 51° 12° 50° 51° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents:	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents:	120
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents:	120
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents:	120
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents: RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric	120
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents: RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 %	120
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents:	120
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents:	123 0° 0° 0° 0° 0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents:	120
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents:	120
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents:	120
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x121mm 2000lm xxx EXC OTD Asymmetric 94 % 0.9 cd/lm 1 White ents:	



TRIDO	NIC .	2 ⁴
LED	RLE G1 49x223mm 4000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	754 751
Efficiency	94 %	40
Peak intensity	0.9 cd/lm	60°.
LEDs/each optic	1	
Light colour	White	45° 000 45°.
Required compone	ents:	35° <u>10</u> ° 10° 30°
TRIDO	NIC .	2 ⁴ 2 ⁹
LED	RLE G1 49x245mm 4000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	75'
Efficiency	94 %	40
Peak intensity	0.9 cd/lm	.60*
LEDs/each optic	1	
Light colour	White	-5° - 300 - 63°
Required compone	ints:	1000 1200 20° 10° 10° 30°



CREE ≑		N H
		90* 90*
LED	J Series 5050 Round LES	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	50* 50*
Peak intensity	0.7 cd/lm	440
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required components:		\times
		800
		\times
		1000
		30 ⁻ 13 ⁵ 0 ⁶ 15 [*]
CREE ≑		
LED	J Series 5050 Round LES	90* 90*
		730 780
FWHM / FWTM	Asymmetric	
Efficiency	90 %	.60*
Peak intensity	0.7 cd/lm	400
LEDs/each optic	1	$X \times I \times X$
Light colour	White	45° 600 45°
Required components:		\times
		\times $ $ \setminus \times
		30* 1000 30*
		13 ⁵ 0 ⁰ 10*
CREE ≑		90* 90*
LED	J Series 5050 Round LES	
FWHM / FWTM	Asymmetric	730 730
Efficiency	74%	
Peak intensity	0.4 cd/lm	60* 60*
LEDs/each optic	1	200
Light colour	White	$X \times / \setminus X \times$
Required components:	Wine	400
Required components.		500
Protective plate	, glass	\times
		× 000
		30* <u>13</u> ⁴ <u>3</u> 0 ⁴ <u>3</u> 0 ⁴
CREE ≑		
		90* 90*
LED	J Series 5050 Round LES	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	0.7 cd/lm	440
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required components:		
		200
		XITIX
		30° 1000 30° 30°



CREE ≑		90° 99°
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	XB-H Asymmetric % 1 White	200 000 700 700 700 700 700 700 700 700
		100 100 100 100 100 100 100
		80* 80*
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	XHP35 HD Asymmetric % 1 White	
CREE 🜲		90° 30° 10° 30° 10° 10° 90°
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	XM-L2 Asymmetric % 1 White	255
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-E2 Asymmetric 91 % 0.7 cd/lm 1	30° 13° 0° 10° 30° 30° 10° 70° 30° 10° 70° 30° 50° 50° 50° 50
Light colour Required components:	White	50 57 57 57 57 57 57 57 57 57 57 57 57 57



CREE ≑		
LED	XP-G3	90* 90*
FWHM / FWTM		75°
	Asymmetric	
Efficiency	72 %	.60°
Peak intensity	0.4 cd/lm	X / 30
LEDs/each optic	1	$X \times I \land X \times$
Light colour	White	451 400 453
Required components:		700
Protective plate	e dass	
		600
		30* 15 ⁵ 700 30*
CREE ≑		90* 90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	23°
Efficiency	70 %	
Peak intensity	0.4 cd/lm	607
LEDs/each optic	1	
Light colour	White	-65* 400 45*
Required components:		
Protective plate	e, glass	00
		30 ⁴
		153 70 15*
CREE 🚖		90* 30
CREE ≑		
	XP-L HI	90°
LED	XP-L HI Asymmetric	90°
LED FWHM / FWTM	Asymmetric	90 ² 73 ³
LED FWHM / FWTM Efficiency	Asymmetric %	90° 25° 60° 60°
LED FWHM / FWTM Efficiency LEDs/each optic	Asymmetric % 1	50° 50° 50°
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric %	90° 25° 60° 60°
LED FWHM / FWTM Efficiency LEDs/each optic	Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric % 1	90° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	Asymmetric % 1	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric % 1	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	Asymmetric % 1 White	100 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	Asymmetric % 1 White XT-E Asymmetric	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	Asymmetric % 1 White XT-E Asymmetric %	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: CREE \diamondsuit LED FWHM / FWTM Efficiency LEDs/each optic	Asymmetric % 1 White XT-E Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: CREE ¢ LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric % 1 White XT-E Asymmetric %	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: CREE \diamondsuit LED FWHM / FWTM Efficiency LEDs/each optic	Asymmetric % 1 White XT-E Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: CREE ¢ LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric % 1 White XT-E Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: CREE ¢ LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric % 1 White XT-E Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: CREEE \$\u00e9 LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Asymmetric % 1 White XT-E Asymmetric % 1	



CREE ≑		90°
LED	XT-E	
FWHM / FWTM	Asymmetric	Re Andrew Re
Efficiency	73 %	
Peak intensity	0.5 cd/lm	50° 300 60°
LEDs/each optic	1	400
Light colour	White	45* 500 45*
Required components:		6/0
		740
Protective plate	, glass	200
	-	12 ⁵ 0 ⁶ 19 ⁴
M LUMILED		90* 90*
LED	LUXEON 5050 Square LES	
FWHM / FWTM	Asymmetric	73*
Efficiency	92 %	
Peak intensity	0.6 cd/lm	40
LEDs/each optic	1	
Light colour	White	45* 600 45 ⁺ .
Required components:		
		200
		\times / \times /
		30* 15 ² - 280 15* 30*
		90* 90*
LED	LUXEON 5050 Square LES	75° 200 75°
FWHM / FWTM	Asymmetric	
Efficiency	79 %	50%
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	$\times \times / \wedge \times \times$
Light colour	White	45* 400 45*
Required components:		
Protective plate	. glass	
		60
		30* 15 ⁵ 30* 30*
	S	
LED	LUXEON 5258	the manual the
FWHM / FWTM	Asymmetric	
Efficiency	%	50 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	45* 600 45*.
Required components:		X X
		200
		X X
		1000
1		/30* 15 ⁵ 0 ⁶ 15 ⁵ 30*



ΜΝΙCΗΙΛ		
LED	NV4WB35AM	
FWHM / FWTM	Asymmetric	13°
Efficiency	92 %	
Peak intensity	0.8 cd/lm	60 60
LEDs/each optic	1	
Light colour	White	45* 000
Required components:	WING	40°
required compendine.		200
		1000
		X / T / X
		30° 15 ⁵ 1290 15° 30'
ΜΝΙCΗΙΛ		
LED	NVSW219D	
FWHM / FWTM	Asymmetric	as many as
Efficiency	91 %	
Peak intensity	0.7 cd/lm	504 400 501
LEDs/each optic	1	
Light colour	White	45° 600 45'
Required components:		$\times/$
		200
		1000
		30° 15° 30°
ΜΝΙCΗΙΛ		90* 90
LED	NVSW519A	4
FWHM / FWTM	Asymmetric	73°
Efficiency	76 %	
Peak intensity	0.4 cd/lm	66° 66°
LEDs/each optic	1	X
Light colour	White	45*
Required components:		400
Protective plate	, glass	X / T / X
		30 ⁴ 15 ⁵ 0 ⁶ 15 ⁴ 30 ¹
MICHIΛ		
		90* 90
LED FWHM / FWTM	NVSW519A	35
Efficiency	Asymmetric 89 %	
Peak intensity	0.7 cd/lm	.53 ⁴ / 50 ⁴
LEDs/each optic	1	
Light colour	White	
Required components:	Willo	**************************************
required components.		
		X X X
		1000



ΜΝΙCΗΙΛ		91* 91*
LED	NVSxE21A	
FWHM / FWTM	Asymmetric	730
Efficiency	75 %	
Peak intensity	0.6 cd/lm	604 604
LEDs/each optic	1	460
Light colour	White	
Required components:	Wille	45* 000 45*
Required components.		
Protective plate	e, glass	Diù
		30* 1000 30* 30*
Μ ΝΙCΗΙΛ		90 ⁵
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	750
Efficiency	69 %	
Peak intensity	0.5 cd/lm	50 ⁴ 300 60 ⁴
LEDs/each optic	1	$X \times I \times X$
Light colour	White	400
Required components:		
- I I		
Protective plate	e, glass	
		700
		30° 550 15° 30°
ΜΝΙCΗΙΛ		90° 90°
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	750 752
Efficiency	87 %	400
Peak intensity	0.8 cd/lm	60"
LEDs/each optic	1	
Light colour		
	White	67
Required components:	White	6 ⁷ 200 45 ¹
	White	67 80 67
	White	6° <u>80</u> 6°
	White	6° 60 6°
Required components: OSRAM	White	6° 00 0° 1000 0° 20° 10° 10° 20° 10° 10°
Required components:		6° 00 0° 100 2° 2° 2° 10° 5° 5°
Required components: OSRAM Opto Semiconductors LED	Duris S8	6° 60 6° 300 20 20 20 20 20 20 20 20 20 20 20 20 2
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Duris S8 Asymmetric	80° 60 125
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Duris S8 Asymmetric 76 %	80° 60 125
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Duris S8 Asymmetric 76 % 0.4 cd/m	80° (2) (2) (2) (2) (2) (2) (2) (2) (2) (2)
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Duris S8 Asymmetric 76 % 0.4 cd/m 1	20 ² 0 ² 25 ² 20 ² 0 ² 25 ² 20 ² 0 ² 0 ² 0 ² 20 ² 0 ² 0 ²
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Duris S8 Asymmetric 76 % 0.4 cd/m	20 ² 0 ² 25 ² 20 ² 0 ² 25 ² 20 ² 0 ² 0 ² 0 ² 20 ² 0 ² 0 ²
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Duris S8 Asymmetric 76 % 0.4 cd/m 1	20 ² 0 ² 25 ²
Required components: OSRAM Opto Semiconductors LED	Duris S8 Asymmetric 76 % 0.4 cd/m 1 White	20 ² <i>d</i> <u>12</u> ²
Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Duris S8 Asymmetric 76 % 0.4 cd/m 1 White	20 ² 0 ² 25 ²



r		
OSRAM		
Opto Semiconductors LED	Duris S8	90* 90*
EED FWHM / FWTM	Asymmetric	750 000 750
	76 %	
Efficiency		60 ⁴ 60 ⁴
Peak intensity	0.4 cd/lm	X
LEDs/each optic	1	$X \times / \square X \times$
Light colour	White	45* 400 45*
Required components:		
Protective plate	e. glass	
		600
		30+ 13 ⁵ 30+ 15+ 30+
OSRAM Opto Semiconductors		90* 92*
LED	OSCONIQ P 3737 (3W version)	
FWHM / FWTM	Asymmetric	730 770 770
Efficiency	91 %	$X \times X / X \times X$
Peak intensity	0.7 cd/lm	50° 400 60°.
LEDs/each optic	1	
Light colour	White	45* 600
Required components:		
		900
		1000
		30° 30° 30°
OSRAM Opto Semiconductors		90 ⁴
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75°
Efficiency	73 %	
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		20
Protective plate	e, glass	
		700
OSRAM		1.30+ 150 0, 150 30h
Opto Semiconductors		90° 90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	73*
Efficiency	74 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	40
Light colour	White	5° 50 5°
Required components:		
		60
Protective plate	e, glass	700
		20° 20°
		30° 13 ⁵ 0° 15° 30°



PHILIPS		90* 90
LED	Fortimo FastFlex LED 2x8 DAX G4	
FWHM / FWTM	Asymmetric	75%
Efficiency	90 %	
Peak intensity	0.8 cd/lm	80 ⁴ 400 60
LEDs/each optic	1	
Light colour	White	45* 600
Required components:		200
		X X
		1000
		30* 30
		152 1800 154
SAMSU	10	90° 90°
LED	HiLOM RH12 Z (LH351C)	
FWHM / FWTM	Asymmetric	730
Efficiency	77 %	
Peak intensity	0.5 cd/lm	X / 300 X /
LEDs/each optic	1	
Light colour	White	45°
Required components:		
Protective plat	a dias	60
	2, 9800	700
		30* <u>13</u> ² 0° <u>1</u> 0° 30°
SAMSU	IG	
LED	HILOM RM8 Z (LH502C)	
FWHM / FWTM	Asymmetric	75°
Efficiency	81 %	
Peak intensity	0.5 cd/lm	80* 60*
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		
		200
Protective plat		
	e, glass	000 X
	e, glass	50° 700 30°
CV WCIII		000 100 120 ¹ 0 ¹ 120 ¹ 0 ¹ 120 ¹ 0 ¹ 120 ¹ 0 ¹
SNMSU	IG	000 202° 233° 233° 233°
LED	I G LH181B	
LED FWHM / FWTM	LH181B Asymmetric	
LED FWHM / FWTM Efficiency	LH181B Asymmetric 92 %	00 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity	LH181B Asymmetric 92 % 0.8 cd/lm	X X / TT X X X
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH181B Asymmetric 92 % 0.8 cd/lm 1	60 60 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B Asymmetric 92 % 0.8 cd/lm	60 60 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH181B Asymmetric 92 % 0.8 cd/lm 1	60 60 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B Asymmetric 92 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH181B Asymmetric 92 % 0.8 cd/lm 1	60° 60° 60° 60° 60° 60° 60° 60° 60° 60°



SAMSUN	IG	
LED	LH231B	90° 90°
FWHM / FWTM	Asymmetric	730 780
Efficiency	90 %	
Peak intensity	0.8 cd/lm	60 ⁴ 400 604
LEDs/each optic	1	500
Light colour	White	45*
Required components:		80
		1200
		30* 13 ⁵ 0 ⁶ 15* 30*
SAMSUN	IG	90* 90*
LED	LH351B	
FWHM / FWTM	Asymmetric	75°
Efficiency	73 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	30
Light colour	White	45* 400 45*
Required components:		
Protective plate	dass	X
	, 9000	60
		30* 13 ⁵ 0 ⁸ 15* 30*
SEOUL SEMICONDUCTOR		90°
LED	SEOUL DC 5050 6V	
FWHM / FWTM	Asymmetric	75%
Efficiency	92 %	
Peak intensity		50° 60°
LEDs/each optic	0.6 cd/lm	400
	0.6 cd/lm 1	
Light colour		40
	1	40 40 40 40
Light colour	1	40
Light colour	1	6° 60 67
Light colour	1	er er er
Light colour	1	60
Light colour Required components:	1	60
Light colour Required components:	1 White	000 30 ¹ 23 ¹ 23 ² 30 ³
Light colour Required components: seoul semiconductor LED	1 White Z5M1/Z5M2	80° 10° 10° 10° 10° 10° 10° 10° 1
Light colour Required components: seous seous semiconductor LED FWHM / FWTM	1 White Z5M1/Z5M2 Asymmetric	66 10 ¹ 10
Light colour Required components: seour semiconductor LED FWHM / FWTM Efficiency	1 White Z5M1/Z5M2 Asymmetric %	00 00 00 00 00 00 00 00 00 00
Light colour Required components: seoul semiconductor LED FWHM / FWTM Efficiency LEDs/each optic	1 White Z5M1/Z5M2 Asymmetric % 1	000 000 000 000 000 000 000 000 000 00
Light colour Required components: scoul semiconductor LED FWHM / FWTM Efficiency LEDs/each optic Light colour	1 White Z5M1/Z5M2 Asymmetric %	60 20 20 20 20 20 20 20 20 20 2
Light colour Required components: seoul semiconductor LED FWHM / FWTM Efficiency LEDs/each optic	1 White Z5M1/Z5M2 Asymmetric % 1	66 60 10 ² 10 ² 1
Light colour Required components: scoul semiconductor LED FWHM / FWTM Efficiency LEDs/each optic Light colour	1 White Z5M1/Z5M2 Asymmetric % 1	42, 42, 46, 46, 46, 46, 46, 46, 46, 46
Light colour Required components: scoul semiconductor LED FWHM / FWTM Efficiency LEDs/each optic Light colour	1 White Z5M1/Z5M2 Asymmetric % 1	60 67 100 100 100 100 100 100 100 10



[
SEOUL SEMICONDUCTOR			
LED	Z8Y19		
FWHM / FWTM	Asymmetric	75°	
Efficiency	91 %	20	
Peak intensity	0.5 cd/lm	50* 60*	
LEDs/each optic	4		
Light colour	White	45* 400 45*	
Required components:		500	
		700	
		15 ³ 0° 15°	
TOSHIBA Leading Innovation >>>		90* 90*	
LED	TL1L4	75* 70*	
FWHM / FWTM	Asymmetric	400	
Efficiency	%	60 ⁴ 600 601	
LEDs/each optic	1		
Light colour	White	45* 1000 45*	
Required components:			
		1220	
		1430	
		30° 1600 36° 36°	
TDIDONI			
TRIDONIC		90* 90*	
LED	RLE 2x8 4000lm HP EXC2 OTD		
FWHM / FWTM	Asymmetric	a de la companya de	
Efficiency	79 %	60* 60*	
Peak intensity	0.6 cd/lm	40	
LEDs/each optic	1		
Light colour	White	42, 600 42,	
Required components:			
Protective plate	Protective plate, glass		
		30* <u>15*</u> 30*	



PRODUCT DATASHEET C15021_STRADA-2X2-SCL

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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