

PRODUCT DATASHEET C14556_STRADA-2X2-TF

STRADA-2X2-TF

Narrow forward throw beam optimized for European tunnels

SPECIFICATION:

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



MATERIALS:

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

ORDERING INFORMATION:

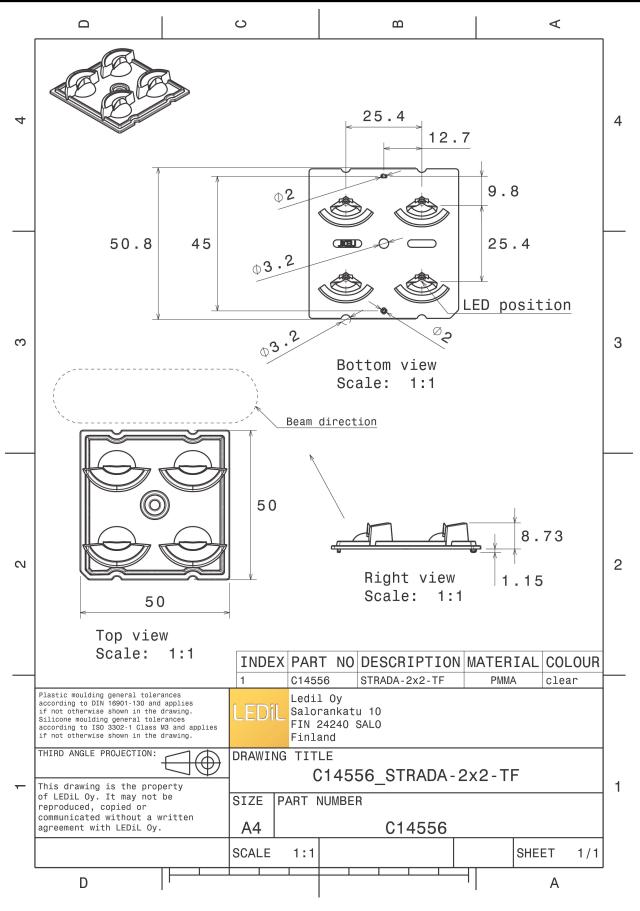
Component

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>



		90* 91*
LED	QUICK FLUX XTP 2x4 xxx LS G5	
FWHM / FWTM	Asymmetric	73%
Efficiency	94 %	800
Peak intensity	2 cd/lm	.60 ⁴
LEDs/each optic	1	
Light colour	White	1600 ath
Required componer		
		2450
		30* 3200 30 ⁴ 32 ⁵ 30 ⁴
CONET		
	QUICK FLUX XTP 2x6 xxx LS G5	90°
FWHM / FWTM	Asymmetric	75° 400 75°
Efficiency	94 %	
Peak intensity	1.9 cd/lm	60* 60*
LEDs/each optic	1	1220
Light colour	White	1600 ett
Required componer		45°
Required component	IIO.	
		2490
		2800
		30° 15° 30°
CREE ≑		
	YP.C2	<u>81</u>
LED	XP-G2 Asymmetric	<u>8</u> ,
LED FWHM / FWTM	Asymmetric	90 [*] 73 [*] 000
LED FWHM / FWTM Efficiency	Asymmetric 94 %	90 ⁻ 75 ⁻ 60 ⁻ 60 ⁻
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 2.1 cd/lm	90° 25° 65° 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 2.1 cd/lm 1	67 100 100 100 100 100 100 100 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.1 cd/lm 1 White	87 87 87 87 80 87 87 87 87 87 87 87 87 87 87
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 2.1 cd/lm 1 White	99 ¹ 73 ¹ 69 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6 ¹ 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.1 cd/lm 1 White	90 ⁻ 72 ⁻ 60 ⁻ 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.1 cd/lm 1 White	97 75 65 67 67 75 75 75 75 75 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 94 % 2.1 cd/lm 1 White	97 97 97 90 90 90 90 97 90 97 90 97 90 97 97 90 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 2.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 2.1 cd/m 1 White hts: XP-G3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED FWHM / FWTM	Asymmetric 94 % 2.1 cd/lm 1 White hts: XP-G3 Asymmetric	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency	Asymmetric 94 % 2.1 cd/lm 1 White hts: XP-G3 Asymmetric 94 %	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 2.1 cd/m 1 White hts: XP-G3 Asymmetric 94 % 1.7 cd/m	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 2.1 cd/m 1 White hts: XP-G3 Asymmetric 94 % 1.7 cd/m 1	209 201 201 201 201 201 201 201 201 201 201
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.1 cd/m 1 White hts: XP-G3 Asymmetric 94 % 1.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 2.1 cd/m 1 White hts: XP-G3 Asymmetric 94 % 1.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.1 cd/m 1 White hts: XP-G3 Asymmetric 94 % 1.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 2.1 cd/m 1 White hts: XP-G3 Asymmetric 94 % 1.7 cd/m 1 White	



COMIL	EDS	90 ⁴
LED	LUXEON T	
FWHM / FWTM	Asymmetric	73° 400 770°
Efficiency	94 %	80
Peak intensity	2 cd/lm	60 ⁴ 50 ⁴
LEDs/each optic	1	
Light colour	White	45* 1000
Required compone		2000
		200
		30* 35 ⁵ 35 ³ 0 15* 30*
MST Your solut	ions	90*
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	750 750
Efficiency	97 %	800
Peak intensity	2 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	45*
Required compone		\times
		2499
		\times / \setminus \times
		30* 3220 30* 30* 15° 0 ⁸ 15°
		THY YHI
		90* 90*
LED	NVSW3x9A	90° 95°
		30 ⁴ 40 72
LED FWHM / FWTM	NVSW3x9A	
LED	NVSW3x9A Asymmetric	
LED FWHM / FWTM Efficiency	NVSW3x9A Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	NVSW3x9A Asymmetric 94 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White	23 ¹ 60 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts:	23 ^t 40 40 50 ^t 90 60 ^t 1270 60 ^t 1270 60 ^t 1270 60 ^t 1270 60 ^t 1270 60 ^t 1270 60 ^t 1270 60 ^t 1270 60 ^t 1270 127
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 1.6 cd/Im 1 White nts:	23 ^t 40 40 50 ^t 90 60 ^t 1270 60 ^t 1270 60 ^t 1270 60 ^t 1270 60 ^t 1270 60 ^t 1270 60 ^t 1270 60 ^t 1270 60 ^t 1270 127
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts:	23 ^t 69 64 ^t 129 62 ^t 1590 77 78 78 78 78 78 78 78 78 78
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 1.6 cd/lm 1 White nts:	23 ^t 69 64 ^t 129 62 ^t 1590 77 78 78 78 78 78 78 78 78 78
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 %	
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 % 2.9 cd/lm	
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 % 2.9 cd/lm 1	
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 % 2.9 cd/lm 1 White	
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 % 2.9 cd/lm 1 White	
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 % 2.9 cd/lm 1 White	
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 % 2.9 cd/lm 1 White	
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 % 2.9 cd/lm 1 White	



OOD AL		
OSRAM		90° 90°
LED	PrevaLED Brick HP 2x8	
FWHM / FWTM	Asymmetric	75° 400 75°
Efficiency	94 %	800
Peak intensity	1.2 cd/lm	60* 5200 60*
LEDs/each optic	1	1600
Light colour	White	45* 45*
Required component	its:	2000
		2430
		2000
		20* 2200 20*
		130 ⁶ 135 ⁵ 00 ⁶ 15 ⁶ 90 ⁶
OSRAM Opto Semiconductors		90* 92*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	73° 400 75°
Efficiency	94 %	800
Peak intensity	1.2 cd/lm	e ⁶⁴ 220 e ⁶¹
LEDs/each optic	1	1500
Light colour	White	67 67
Required compone	its:	2000
		2430
		200
		30° 2200 90°
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square PC	
FWHM / FWTM	Asymmetric	780
Efficiency	94 %	
Peak intensity	2.2 cd/lm	bo.
LEDs/each optic	1	1000
Light colour	White	100 107 00*
	White	$X / T \land X$
Light colour	White	$X / T \land X$
Light colour	White	$X / T \land X$
Light colour	White	5°
Light colour Required componen	White Its:	$X / T \land X$
Light colour Required component PHILIP	White Its:	5°
Light colour Required component PHILIP LED	White Its: S Fortimo FastFlex LED 2x8 DA G4	
Light colour Required component PHILIP LED FWHM / FWTM	White Its: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric	200 200 200 200 200 200 200 200 200 200
Light colour Required component PHILIP LED FWHM / FWTM Efficiency	White Its: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 %	
Light colour Required component PHILLIP LED FWHM / FWTM Efficiency Peak intensity	White its: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm	et" 2000 30" 10 00" 00" 00" 00" 00" 00" 00
Light colour Required component PHILLIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White Its: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm 1	
Light colour Required component PHILLIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White tts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm 1 White	et" 2000 30" 10 00" 00" 00" 00" 00" 00" 00
Light colour Required component PHILLIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White tts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm 1 White	45°
Light colour Required component PHILLIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White tts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm 1 White	45°
Light colour Required component PHILLIP LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White tts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm 1 White	45°
Light colour Required component PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White tts: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 2.1 cd/lm 1 White	45°



PHILIF	PS S	90* 90
LED	Fortimo FastFlex LED 2x8 DA G4+	a a
FWHM / FWTM	Asymmetric	726 400 73
Efficiency	97 %	
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	1220
Light colour	White	45* 1000 45
Required compone	ints:	
		2000
		2430
		30* 15 ⁵ 2890 15* 30*
PHILIF	DS	90* 90
LED	Fortimo FastFlex LED 2x8 DA G5	
FWHM / FWTM	Asymmetric	730 780
Efficiency	97 %	800
Peak intensity	2.1 cd/lm	60 ⁴ 60*
LEDs/each optic	1	1650
Light colour	White	45' 55'
Required compone	ents:	
		3300
		(30* 30* 30* 30*
СЛЛЛС		
21/11/91		90* 90*
		50°
LED	HiLOM RC12 Z (LH181B)	20 ⁴ 20 ⁴ 20 ⁴
		32 35 36,
LED FWHM / FWTM	HiLOM RC12 Z (LH181B) Asymmetric	80 23 24 24 24 25 26 26 26 26 26 26 26 26 26 26 26 26 26
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RC12 Z (LH181B) Asymmetric 99 %	25 00 00 00 00 00 00 00 00 00 00 00 00 00
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	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	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	£5° 200 et
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 ents:	£5° 200 et
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 ents:	45°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HILOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	
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 ents:	45°
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 ents:	
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 ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALS LED FWHM / FWTM Efficiency Peak intensity	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RC12 Z (LH181B) Asymmetric 99 % 2.7 cd/lm 1 White ents:	



SAMSU	INC	
		50°
LED	HiLOM RH16 (LH351C)	730 400 77
FWHM / FWTM	Asymmetric	
Efficiency	94 %	.50 ¹⁶ 800
Peak intensity	1.8 cd/lm	
LEDs/each optic	1 White	
Light colour Required compone		45'
Required compone	лно. -	2000
		2000
		30* 15 ⁵ 0° 10* 30
SAMSI	UNG	
LED	LH351B	
FWHM / FWTM	Asymmetric	75% 400 72
Efficiency	94 %	800
Peak intensity	1.6 cd/lm	60 ⁴
LEDs/each optic	1	1230
Light colour	White	.45* 1600 45
Required compone	ents:	X/T/X
		200
		2490
		30*
		15° 2880 15°
Elektronik GmbH		90°
Elektronik GmbH	LED-Pa-L15c2W11c2-xxx-C050-01	9 ⁴
LED FWHM / FWTM	Asymmetric	90 ⁴ 70 ⁵
LED FWHM / FWTM Efficiency		99 ¹ 73 64
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 2.2 cd/lm	55° 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 2.2 cd/lm 1	9° 73 60° 60° 60° 60° 60° 60° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White	99° 72° 65° 60°
LED FWHM / FWTM Efficiency	Asymmetric 97 % 2.2 cd/lm 1 White	J73 ⁴ 60 ⁴ 1500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White	J73 ⁴ 60 ⁴ 1500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White	J73 ⁴ 60 ⁴ 1500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White	J73 ⁴ 60 ⁴ 1500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 2.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 2.2 cd/lm 1 White ents:	73 ⁵ 00 64 ⁵ 100 - 00 - 00 - 00 - 00 - 00 - 00 - 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 2.2 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 1.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 1.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 1.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 2.2 cd/lm 1 White ents: Z5M3 Asymmetric 94 % 1.7 cd/lm 1 White	



SEOUL		80 ⁴
SEOUL SEMICONDUCTOR	Z8Y22	30°
FWHM / FWTM		73% 400 75%
	Asymmetric 94 %	
Efficiency		504 800 604
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 1600 65°
Required compone	nts:	
		2130
		30° ma o 30°
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z8Y22P	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	504 800 664
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 1000 45°
Required compone	ints:	
		2000
		132 of 132
TOSHIBA Leading Innovation >>>		90° 00°
LED	TL1L4	
FWHM / FWTM	Asymmetric	775
Efficiency	91 %	800
Peak intensity	2 cd/lm	*00*
	1	
LEDs/each optic	I	
LEDs/each optic Light colour	v White	457 550
	White	a. 100 g'
Light colour	White	ie: 109 97
Light colour	White	ia: 100 200
Light colour	White	500 (G) 2000
Light colour Required compone	White ents:	30 ⁻ 50 ⁻
Light colour Required compone	White ents:	er. 100 2000 30 ⁺ 20 30 ⁺ 30 ⁺ 30 ⁺ 30 ⁺
Light colour	White ents:	500 2009 30 ⁴ 12 ⁴ 2 ⁵ 2 ⁵ 2 ⁵ 2 ⁵ 2 ⁵
Light colour Required compone	White ents:	500 2009 30* 13* 33* 35* 13* 33*
Light colour Required compone TRIDON LED FWHM / FWTM	White Ints: NIC RLE 2x4 2000lm HP EXC2 OTD	500 2009 30* 139 34° 139 34° 139 34° 139 34° 139
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency	White ents: NIC RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 %	200 200 200 200 200 200 200 200 200 200
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity	White ents: NIC RLE 2x4 2000lm HP EXC2 OTD Asymmetric	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White Ints: IC RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 2.2 cd/lm 1	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White Ints: ICC RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 2.2 cd/lm 1 White	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White Ints: ICC RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 2.2 cd/lm 1 White	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White Ints: ICC RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 2.2 cd/lm 1 White	
Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White Ints: ICC RLE 2x4 2000lm HP EXC2 OTD Asymmetric 94 % 2.2 cd/lm 1 White	



TRIDON	NIC	90* 90*
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	75° 75°
Efficiency	94 %	008
Peak intensity	2.2 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	
Required compone		
		2450
		\times / \setminus \times
		770
		30° 15 ⁵ 0° 15° 30°
TRIDOM		
		90* 90*
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	736
FWHM / FWTM	Asymmetric	1600
Efficiency	94 %	504 694
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	320
Light colour	White	45* 45*
Required compone	ints:	
		4000
		\times
		30° 5400 30° 11° 30°
		4 9 4
TDIDON		
TRIDON		81*
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	50°
LED FWHM / FWTM	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric	70
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	99 ⁴ 79 ⁵ 79 1000
LED FWHM / FWTM Efficiency Peak intensity	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric	79
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 %	79
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White	79
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White	173 - 1600 604 - 2720 - 604
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White	173 - 1600 604 - 2720 - 604
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White	173 - 1600 604 - 2720 - 604
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	57 500 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 compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White Ints:	77° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	234 454 459 459 459 459 459 459 45
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents: RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 %	
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 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 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	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x133mm 2000lm xxx EXC OTD Asymmetric 94 % 2.1 cd/lm 1 White ents:	

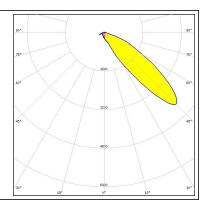


TRIDONIC

LED

FWHM / FWTMAsEfficiency94Peak intensity2.LEDs/each optic1Light colourWRequired components:

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





CREE ≑		
LEDs	XP-G2 HE	907 907
FWHM / FWTM	Asymmetric	75° 400 75°
Efficiency	91 %	
Peak intensity	91 % 1.4 cd/lm	60° 000 60°.
LEDs/each optic	1 White	1220
Light colour Required components:	White	6°* 68*
Required components.		\times \land \times
		2000
		30° 2450 30° 15° 30°
		TTY ETT
		90* 90*
	XP-G3	
FWHM / FWTM	Asymmetric	400
Efficiency	79 %	.50*
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	120
Light colour	White	·6'
Required components:		1600
Protective plate	e, glass	\times
		2000
		30* 30*
		15, 0, 19,
CREE ÷		123 00 133
	YP C4	997 B
LED	XP-G4	000
LED FWHM / FWTM	Asymmetric	000
LED FWHM / FWTM Efficiency	Asymmetric 94 %	75
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.8 cd/lm	73 ³ 60 ⁴ 60 ⁴ 120
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.8 cd/lm 1	73° 400 75° 000 400 400 400 400 400 400 400 400 400
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.8 cd/lm	73° 400 75° 0/0 0/1 120
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.8 cd/lm 1	75° 000 75° 000 1120 000 1500 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.8 cd/lm 1	75° 000 75° 000 1120 00° 1120 00° 1120 00° 1120 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.8 cd/lm 1	200 00 00 120 105 105 105 105 105 105 105 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.8 cd/lm 1	75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.8 cd/lm 1	200 00 00 120 105 105 105 105 105 105 105 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.8 cd/lm 1 White	120 60 60 120 120 505 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 components:	Asymmetric 94 % 1.8 cd/lm 1 White XP-G4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.8 cd/lm 1 White XP-G4 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.8 cd/lm 1 White XP-G4 Asymmetric 83 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.8 cd/lm 1 White XP-G4 Asymmetric 83 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.8 cd/lm 1 White XP-G4 Asymmetric 83 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.8 cd/lm 1 White XP-G4 Asymmetric 83 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.8 cd/lm 1 White XP-G4 Asymmetric 83 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.8 cd/lm 1 White XP-G4 Asymmetric 83 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREEES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 1.8 cd/lm 1 White XP-G4 Asymmetric 83 % 1.6 cd/lm 1 White	



CREE ≑		THA KHI
LEDS		90* 90 ⁺
	XT-E	750 400 750
FWHM / FWTM	Asymmetric	
Efficiency	92 %	50* 80
Peak intensity	1.7 cd/lm	1270
LEDs/each optic	1	1600
Light colour	White	45* 2000 45*
Required components:		2000
		2430
		30+ 2890 30+
		725. 6. 725.
		90* 99*
LED	XT-E	
FWHM / FWTM	Asymmetric	73° 400 78°
Efficiency	78 %	
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	1290
Light colour	White	45* 45*
Required components:		1690
Protective plate	e, glass	X / T / X
		30° 2400 30°
		90° 10° 10° 10° 10° 10° 10° 10° 10° 10° 1
LED	LUXEON 3030 2D (Round LES)	
LED FWHM / FWTM	LUXEON 3030 2D (Round LES) Asymmetric	73*
LED FWHM / FWTM Efficiency	LUXEON 3030 2D (Round LES) Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm	73*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1	273 60 ⁴ 1220
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm	29 60 - 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1	75 00 50 120 57 200 57 200 57 57 57 100 57 57 100 57 57 100 57 57 100 57 57 100 57 57 57 57 57 57 57 57 57 57 57 57 57 57 57 57
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1	50 ¹ 000 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1 White	25 60 120 120 150 150 150 150 150 150 150 15
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1 White	25 60 120 120 150 150 150 150 150 150 150 15
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1 White	25 60 120 120 150 150 150 150 150 150 150 15
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 80 %	50 60 60 100 100 100 100 100 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 80 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 80 % 1.6 cd/lm 1	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / EVTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 80 % 1.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1 White S LUXEON 3030 2D (Round LES) Asymmetric 80 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WWW LUMILEE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WIM / EVTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WWW LUMILEE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 94 % 1.8 cd/lm 1 White	



LUMILED	S	
LED	LUXEON HL2X	
FWHM / FWTM	Asymmetric	75° 400 75°
Efficiency	93 %	
Peak intensity	1.5 cd/lm	.60 ⁴ 800 60 ⁴ .
LEDs/each optic	1	1230
Light colour	White	$\times \times / \setminus \times \times$
Required components:	White	45, 7500 42,
Required components.		2000
		2430
		30* 13 ³ 28 ⁵ 0 15* 30*
	S	907 907
LED	LUXEON HL2X-D	
FWHM / FWTM	Asymmetric	75° 400 75°
Efficiency	94 %	
Peak intensity	1.4 cd/lm	50° 800 50°.
LEDs/each optic	1	
Light colour	White	45* 67*
Required components:		1500
		\times
		2000
		30° 2490 30° 30° 30°
UMILED	S	90* 90*
		27
ILEU	LUXEON HL2X-D	
LED FWHM / FWTM	LUXEON HL2X-D Asymmetric	75 400 75
FWHM / FWTM	LUXEON HL2X-D Asymmetric 80 %	
FWHM / FWTM Efficiency	Asymmetric 80 %	
FWHM / FWTM Efficiency Peak intensity	Asymmetric	57° 60 77.
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 80 % 1.2 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 1.2 cd/lm	17 ³ 40 72 70 70 70 70 70 70 70 70 70 70 70 70 70
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 80 % 1.2 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 1.2 cd/lm 1 White	2° 00 72 00 00 00 00 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 80 % 1.2 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 80 % 1.2 cd/lm 1 White , glass	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 80 % 1.2 cd/lm 1 White , glass	200 200 200 200 200 200 200 200 200 200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 80 % 1.2 cd/lm 1 White , glass S LUXEON HL2X-P	20 ²
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 80 % 1.2 cd/lm 1 White , glass S LUXEON HL2X-P Asymmetric	50 ³ 0 ³ 0 ³ 0 ³ 0 ³ 0 ³ 0 ³
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 80 % 1.2 cd/lm 1 White , glass S LUXEON HL2X-P Asymmetric 93 %	20 ²
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 80 % 1.2 cd/lm 1 White , glass S LUXEON HL2X-P Asymmetric 93 % 1.3 cd/lm	20 ²
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 80 % 1.2 cd/lm 1 White , glass S LUXEON HL2X-P Asymmetric 93 % 1.3 cd/lm 1	50 ³ 10
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 80 % 1.2 cd/lm 1 White , glass S LUXEON HL2X-P Asymmetric 93 % 1.3 cd/lm	2009 200 200
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 80 % 1.2 cd/lm 1 White , glass S LUXEON HL2X-P Asymmetric 93 % 1.3 cd/lm 1	50 ³ 10
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 80 % 1.2 cd/lm 1 White , glass S LUXEON HL2X-P Asymmetric 93 % 1.3 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 80 % 1.2 cd/lm 1 White , glass S LUXEON HL2X-P Asymmetric 93 % 1.3 cd/lm 1	50 ³ 10



M LUMILED	DS	90* 90*
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
FWHM / FWTM	Asymmetric	75° 400 75°
Efficiency	94 %	
Peak intensity	1.4 cd/lm	60 ⁴ 800 604
LEDs/each optic	1	1200
Light colour	White	45° 45°
Required components:		1500
		2000
		2400
		15 ⁵ 0 ⁶ 15 ⁶
	12	90* 90*
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
FWHM / FWTM	Asymmetric	736 400 705
Efficiency	80 %	50* 50*
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	457 1230 45*
Required components:		
Protective plate	e, glass	1630
		30* 30*
		15 ⁵ 0 ⁶ 15 ⁹
MICHIΛ		22 ³ 0 ⁴ 22 ⁴
	NF2x757G	<u>89</u> * <u>89</u> *
	NF2x757G Asymmetric	15 ² 0 ⁴ 15 ⁴ 99 ⁴ 75 ⁴ 00 75 ²
LED		
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 83 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 83 % 1.6 cd/lm	73+ 40 77: 60 60 16*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 83 % 1.6 cd/lm 1	73+ 40 77: 60 60 16*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 83 % 1.6 cd/lm 1 White	73+ 40 77: 60 60 16*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 83 % 1.6 cd/lm 1 White	73+ 40 77: 60 60 16*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 83 % 1.6 cd/lm 1 White	73+ 40 77: 60 60 16*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 83 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 83 % 1.6 cd/lm 1 White	23 - 40 - 72 - 72 - 72 - 72 - 72 - 72 - 72 - 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 83 % 1.6 cd/lm 1 White e, glass NVSxx19B/NVSxx19C	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 83 % 1.6 cd/lm 1 White e, glass NVSxx19B/NVSxx19C Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency	Asymmetric 83 % 1.6 cd/lm 1 White e, glass NVSxx19B/NVSxx19C Asymmetric 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate ED FWHM / FWTM Efficiency Peak intensity	Asymmetric 83 % 1.6 cd/lm 1 White e, glass NVSxx19B/NVSxx19C Asymmetric	
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 83 % 1.6 cd/lm 1 White e, glass NVSxx19B/NVSxx19C Asymmetric 92 % 1.6 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	Asymmetric 83 % 1.6 cd/lm 1 White e, glass NVSxx19B/NVSxx19C Asymmetric 92 % 1.6 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 83 % 1.6 cd/lm 1 White e, glass NVSxx19B/NVSxx19C Asymmetric 92 % 1.6 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 83 % 1.6 cd/lm 1 White e, glass NVSxx19B/NVSxx19C Asymmetric 92 % 1.6 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 83 % 1.6 cd/lm 1 White e, glass NVSxx19B/NVSxx19C Asymmetric 92 % 1.6 cd/lm 1	



ΜΝΙCΗΙΛ		
LED	NWSx229A	
FWHM / FWTM	Asymmetric	750 771
Efficiency	92 %	
Peak intensity	1.2 cd/lm	60*
LEDs/each optic	1 White	
Light colour Required components:	White	65° 1230 65°
Required components.		
		1600
		30 ⁴ 2000 30 ⁴
OSRAM		
Opto Semiconductors	OSCONIQ P 3737 Flat	8°
FWHM / FWTM	Asymmetric	73% 400 75°
Efficiency	94 %	
Peak intensity	34 % 1.6 cd/lm	.50° 800
LEDs/each optic	1	1200
Light colour	White	
Required components:	Wine	145° <u>1600</u> 45°
Required components.		2000
		24/00
		30* <u>15</u> ⁵ 28 ³⁵ 15* 30*
OSRAM Opto Semiconductors		
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	90* 90*
FWHM / FWTM	Asymmetric	73% 400 77*
Efficiency	84 %	
Peak intensity	1.5 cd/lm	50 ⁴ 50 ⁶
LEDs/each optic	1	1200
Light colour	White	
Required components:		1600
Protective plate	, glass	2000
		2400
		30° 15° 30°
PHILIPS		
LED	Fortimo FastFlex LED 2x8 DAX G4	
FWHM / FWTM	Asymmetric	75% 400 75.
Efficiency	93 %	
Peak intensity	1.4 cd/lm	80 ⁴ 800 60 ⁴
LEDs/each optic	1	1250
Light colour	White	45* 45*
Required components:		1000
		\times
		2000
		30° 2400 30° 30°



SAMSU	N G	
LED		90°
EED FWHM / FWTM	HiLOM RH12 Z (LH351C)	730 400
Efficiency	Asymmetric 85 %	
Peak intensity	1.6 cd/lm	63* 800
LEDs/each optic	1	1200
Light colour	White	
Required components:		67* 1690
		2009
Protective pla	e, glass	202
0.0.0.0.0.0		12 ³ 0 ⁴ 12 ³
SVWSAL	NG States	90*
LED	LH351B	
FWHM / FWTM	Asymmetric	738 400
Efficiency	81 %	554
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	1200
Light colour	White	er land
Required components:		1000
Protective plat	te, glass	
		200
		30° 15° 28% 15°
SAMSU	VG	90*
LED	LH351C	
FWHM / FWTM	Asymmetric	736 400
Efficiency	94 %	
Peak intensity	1.5 cd/lm	403
LEDs/each optic	1	120
Light colour	White	45*
Required components:		1600
		2000
		200
SAMSU	N.G.	
	LH351C	90°
LED FWHM / FWTM		75° 400
Efficiency	Asymmetric 83 %	
	83 % 1.3 cd/lm	50* 800
Peak intensity LEDs/each optic	1.3 co/im 1	
	1 White	1200
Light colour		.67
Light colour Required components:		
Required components:		1009
		100



SAMSU	NG	84
LED	LH351D	
FWHM / FWTM	Asymmetric	251 10
Efficiency	88 %	
Peak intensity	1.2 cd/lm	504
LEDs/each optic	1	
Light colour	White	6 ⁷ 6 ⁷
Required components		1220
		1070
		30** 25 ⁵ 20 ⁶ 25 ⁴
SAMSU	NG	
LED	LM301B	
FWHM / FWTM	Asymmetric	75 400 752
Efficiency	95 %	
Peak intensity	1.8 cd/lm	50 ⁴ 1370
LEDs/each optic	1	
Light colour	White	107 07
Required components		399
		130°
SEOUL SEMICONDUCTOR		0°
LED	Z5M1/Z5M2	
FWHM / FWTM	Asymmetric	72 600 72
Efficiency	94 %	80
Peak intensity	1.8 cd/lm	205
LEDs/each optic	1	
Light colour	White	500 57
Required components		200
		200
		700
		207
		30° 12 ³ 36 ³ / ₂ 5° 30°



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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc. 228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

Local sales and technical support www.ledil.com/ where_to_buy

Shipping locations Salo, Finland Hong Kong, China

Distribution Partners www.ledil.com/ where_to_buy

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