

# PRODUCT DATASHEET C12419\_STRADA-2X2-A-T

# STRADA-2X2-A-T

Short IESNA Type II beam for narrow roads or high poles with extremely low glare

#### **SPECIFICATION:**

Dimensions	50.0 x 50.0 mm
Height	7.3 mm
Fastening	glue, pin, screw
ROHS compliant	yes 🕕



#### **MATERIALS:**

ComponentTypeMaterialColourFinishSTRADA-2X2-A-TMulti-lensPMMAclear

#### **ORDERING INFORMATION:**

#### Component

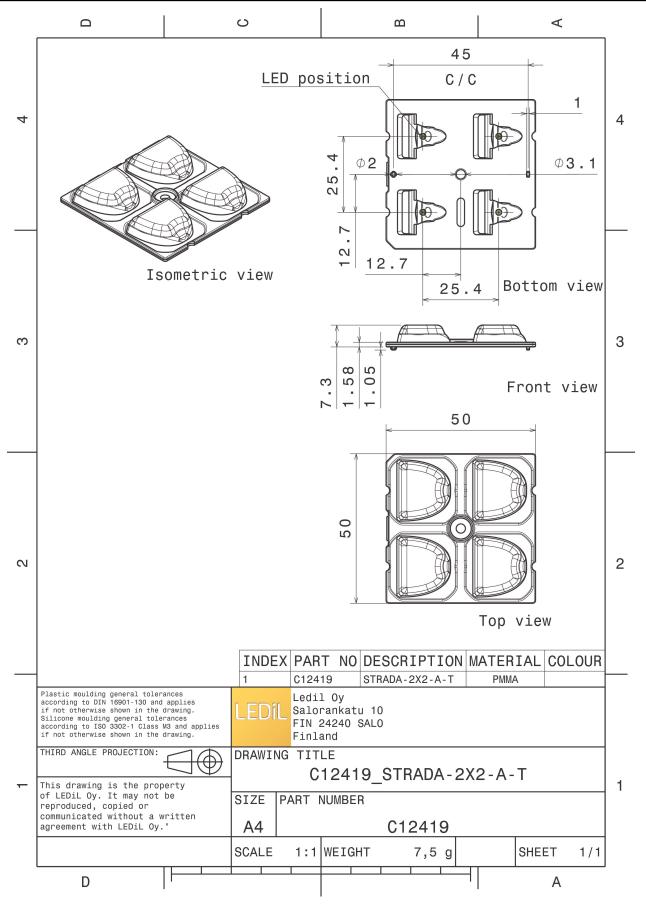
C12419\_STRADA-2X2-A-T » Box size: 480 x 280 x 300 mm

Qty in box	MOQ	MPQ	Box weight (kg)
800	160	160	6.8



# PRODUCT DATASHE C12419\_STRADA-2X2-A-T

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



		90*
LED	J Series 5050C 6V E Class	
FWHM / FWTM	Asymmetric	734 782
Efficiency	97 %	
Peak intensity	0.6 cd/lm	66* 66*
LEDs/each optic	1	400
Light colour	White	6° 6°
Required compone	nts:	600
		840
		ane are
		123 0, 150
		90* 90*
LED	XM-L	
FWHM / FWTM	Asymmetric	730 780
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	-65°
Required compone	nts:	$\times$
		600
		$\times$ / $\setminus$ $\times$
		200
		15° 0° 15°
CREE ÷		90° 90°
LED	XM-L2	
FWHM / FWTM	Asymmetric	734
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60°.
LEDs/each optic	1	400
Light colour	White	451 67
Required compone	nts:	640
		30* 30*
CREE ≑		12° 0° 12°
LEDS		90* 90*
LED	XM-L3	
FWHM / FWTM	Asymmetric	200
Efficiency	97 %	50° 50°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	X//TVX
Light colour	White	6° 6°
Required compone	nts:	60
		800
		30* 33*
1		15° 0° 15°



CREE ≑		
LEDS		
LED	XP-G	
FWHM / FWTM	Asymmetric	
Efficiency	93 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
		91 <sup>4</sup>
LED	XP-G2	*
FWHM / FWTM	Asymmetric	72 200 79
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60* 60*
LEDs/each optic	1	X/TVX
Light colour	White	10 <sup>+</sup> 600 90 <sup>+</sup>
Required compone		
	ю.	800
		$\times$ / $\wedge$ $\times$
		1000
		30° 15° 0° 15° 30°
LED	XP-G3	
FWHM / FWTM	Asymmetric	73* 78*
Efficiency	97 %	
Peak intensity	0.7 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	400
Light colour	White	45* 43*
Required compone		
		800
		$\times$ / $\setminus$ $\times$
		20* 12 <sup>5</sup> 0* 12 <sup>5</sup> 30 <sup>4</sup>
		90°
LED	XP-G3	
FWHM / FWTM	Asymmetric	78
Efficiency	84 %	
Peak intensity	0.7 cd/lm	50* 60*
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required compone		$\sim$
	A-2X2-SHD-BLK	$\times$
		640
		30* 15 <sup>5</sup> 0 <sup>6</sup> 10* 30 <sup>4</sup>



		90* 90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	736 /50
Efficiency	92 %	200
Peak intensity	0.7 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	455 400 45*
Required compone	nts:	
	A-2X2-SHD-WHT	
		600
		$\angle$ / $\land$ $\land$
		30° 15 <sup>5</sup> 0° 15° 30°
		50* 50*
LED	XP-L HD	9
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	400
Light colour	White	45*
Required compone		
rtequired compone		
		30° 15 <sup>5</sup> 0° 15° 30°
		0.5
		90° 90°
LED	XP-L HI Asymmetric	8°
LED FWHM / FWTM	Asymmetric	20 De 72
LED FWHM / FWTM Efficiency	Asymmetric 94 %	90° 90° 70° 00° 70° 80° 00° 70°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.9 cd/lm	9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1	50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	92* 92 60* 60* 60* 60* 60* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	20° 10° 10° 10° 20° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.9 cd/lm 1 White nts:	92° 92° 60° 60° 60° 60° 60° 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	Asymmetric 94 % 0.9 cd/lm 1 White nts: XP-L2	30°         9°           50°         60°           60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.9 cd/lm 1 White nts: XP-L2 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.9 cd/lm 1 White nts: XP-L2 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREECS LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.9 cd/lm 1 White nts: XP-L2 Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1 White nts: XP-L2 Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White nts: XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1 White nts: XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREECS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White nts: XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE EDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White nts: XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White	99° 90° 73° 000 90° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE EDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White nts: XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White	99° 90° 73° 000 90° 60° 60°



CREE ≑		
LED LEDS	XT-E	90* 90*
EED FWHM / FWTM		73* 77*
Efficiency	Asymmetric 93 %	200
	93 % 0.5 cd/lm	504 604
Peak intensity		400
LEDs/each optic	1	
Light colour	White	45* 600
Required compone	nts:	
		800
		30° 15 <sup>5</sup> 0° 15° 30°
	EDC	
UMIL	EDS	90° 90°
LED	LUXEON H50-2	75° 72°
FWHM / FWTM	Asymmetric	
Efficiency	0 %	
LEDs/each optic	1	
Light colour	White	45* 45*
Required compone	nts:	000
		$\times$ / $\times$
		80
		$\times$ / $\setminus$ $\times$
		13 <sup>2</sup> 0 <sup>9</sup> 13 <sup>9</sup>
	EDS	
		8.
LED	LUXEON MZ	8°
LED FWHM / FWTM	LUXEON MZ Asymmetric	р. р.
LED FWHM / FWTM Efficiency	LUXEON MZ Asymmetric 94 %	91°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON MZ Asymmetric	90° 90° 200 90° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White	9. 9. 50 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White	9° 70 50° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White	201 201 201 201 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White	20° 20° 20° 20° 20° 20° 20° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON Q Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON Q Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Model of the second	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON Q Asymmetric 94 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Mequired compone Efficiency Peak intensity LEDs/each optic	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON Q Asymmetric 94 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>Composition</b> Required compone <b>Composition</b> Efficiency Peak intensity LEDs/each optic Light colour	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON Q Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Mequired compone Efficiency Peak intensity LEDs/each optic	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON Q Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>Composition</b> Required compone <b>Composition</b> Efficiency Peak intensity LEDs/each optic Light colour	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON Q Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>Composition</b> Required compone <b>Composition</b> Efficiency Peak intensity LEDs/each optic Light colour	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON Q Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON MZ Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON Q Asymmetric 94 % 0.8 cd/lm 1 White	



M LUMIL	EDS	90* 90*
LED	LUXEON Rebel ES	
FWHM / FWTM	Asymmetric	75* 76*
Efficiency	93 %	
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	5°
Required compone	nts:	
		200
		30 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>6</sup> 30
🖉 LUMIL	EDS	90* 90*
LED	LUXEON T	
FWHM / FWTM	Asymmetric	75° 200 75°
Efficiency	94 %	
Peak intensity	0.8 cd/lm	400
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required compone	nts:	$\times$
		800
		1000 30* 30*
		10, 0, 10,
	EDC	TXY YAT
UMIL	EDS	80*
LED	EDS LUXEON TX	<b>1</b> 01
LED FWHM / FWTM	LUXEON TX Asymmetric	90°
LED FWHM / FWTM Efficiency	LUXEON TX Asymmetric 94 %	90° 200 00°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON TX Asymmetric 94 % 0.9 cd/lm	97 19 10 10 10 10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White	20° 20° 60° 60° 60° 60° 60° 60° 60° 60° 60° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White	20° 20° 20° 20° 20° 20° 20° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White nts:	200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MSST Vour solut LED FWHM / FWTM Efficiency	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White Ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 %	90 90 90 90 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MSST Vour solut LED FWHM / FWTM Efficiency Peak intensity	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White nts: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm	90 90 90 90 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MSST Vour solut LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White nts: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm 1	90 90 100 100 100 100 100 100 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MST Vour solut LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White nts: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm 1 White	90 90 30 50 <sup>*</sup> 50 <sup></sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MSST Vour solut LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White nts: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MST Vour solut LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White nts: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MST Vour solut LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White nts: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm 1 White	



Manguna		
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NS9x383 Asymmetric 94 % 0.7 cd/lm 1 White	
		30° <u>10°</u> 30° 30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 0.8 cd/lm 1 White	
		30 <sup>+</sup> 23 <sup>2</sup> 36 <sup>2</sup> 23 <sup>+</sup> 36 <sup>2</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 94 % 0.8 cd/lm 1 White	30 <sup>4</sup> 10 <sup>4</sup> 10 <sup>4</sup> 10 <sup>4</sup> 10 <sup>4</sup> 10 <sup>4</sup>
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW3x9A Asymmetric 94 % 0.7 cd/lm 1 White	



ØNICHI/	Δ		90* 90
LED	NVSxE21A		
FWHM / FWTM	Asymmetric		730 200 73
Efficiency	94 %		40
Peak intensity	0.9 cd/lm		.814 60
LEDs/each optic	1		600
Light colour	White		ar
Required compone			
			1000
			1200
			1400
			30* 15 <sup>5</sup> 0° 15 <sup>5</sup> 30
ØNICHI/	N Contraction of the second seco		90* 90
LED	NVSxx19B/NVSxx19C		
FWHM / FWTM	Asymmetric		73
Efficiency	94 %		
Peak intensity	0.8 cd/lm		60 <sup>4</sup> 400 60
LEDs/each optic	1		
Light colour	White		65* 600 45
Required compone	ents:		$\times$
			800
			1000
			112 <sup>3</sup> 0 <sup>3</sup> 12 <sup>3</sup>
OSRAN	1		90° 90
LED	PrevaLED Brick HP 2x8		
FWHM / FWTM	Asymmetric		73° 200 75
Efficiency	94 %		
Peak intensity	0.8 cd/lm		40 40
LEDs/each optic	1		
Light colour	White		45' 65
Required compone	ents:		800
			$\times$ / $\times$
			1000
			30* 30
OSRAM			129 0 <sup>0</sup> 119 <sup>4</sup>
Opto Semiconductors			90° 90°
LED	OSLON Square CSSRM2/CSSRM3		73*
FWHM / FWTM	Asymmetric		
Efficiency	94 %		504 60
Peak intensity	0.8 cd/lm		
LEDs/each optic	1	and the second	X X ee
Light colour	White		45*
Required compone	ents:		00
			X     X
			1000
			300



r		
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square PC	
FWHM / FWTM	Asymmetric	736
Efficiency	94 %	
Peak intensity	0.8 cd/lm	604 601
LEDs/each optic	1	
Light colour	White	45* 45*
Required componer		000
		800
		90° 15° 30°
PHILIP	S	
LED	Fortimo FastFlex LED 2x8 DA G4	
FWHM / FWTM	Asymmetric	75%
Efficiency	94 %	
	0.9 cd/lm	504 804
Peak intensity	1	400
LEDs/each optic Light colour	White	
		e5* <u>600</u> 45*
Required componer	15.	
		800
		30* 1000 30* 30*
PHILIP	S	
LED	Fortimo FastFlex LED 2x8 DA G4+	90* 90*
FWHM / FWTM		73°
	Asymmetric 98 %	
Efficiency	0.7 cd/lm	50* 50*
Peak intensity LEDs/each optic	1	
Light colour	White	
Required componer		e. e.
Required componer	10.	600
		$\times$ / $\times$
		800
		30° 15° 30°
PHILIP	20	
		90* 90*
	Fortimo FastFlex LED 2x8 DA G5	772 772
FWHM / FWTM	Asymmetric	
Efficiency	98 %	av ex
Peak intensity	0.7 cd/lm	
LEDs/each optic	1 Milita	
Light colour	White	6° 00 63
Required componer	IIS:	
		00
		30*
		30° 30°



CARACI		
<b>S</b> ΛΜS	JNG	90*
LED	HiLOM RC12 Z (LH181B)	
FWHM / FWTM	Asymmetric	
Efficiency	99 %	440
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	00
		1000
		10 <sup>20</sup> 40 <sup>2</sup>
<u> </u>	ING	
		90* 9
LED	HILOM RH16 (LH351C)	75
FWHM / FWTM	Asymmetric	200
Efficiency	94 %	5.04
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	460
Light colour	White	6° .
Required compone	nts.	640
		30* 15 <sup>5</sup> 0* 15* 3
0 0 0 0 0		
SAWSI	ING	
SAMSI		
LED	LH351B	50*
LED FWHM / FWTM	LH351B Asymmetric	30* 9 33* 20
LED FWHM / FWTM Efficiency	LH351B Asymmetric 94 %	90* 733 80%
LED FWHM / FWTM Efficiency Peak intensity	LH351B Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents: UNG LH351D Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents: UNC LH351D Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSE</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSU</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents:	

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	ING	90*
LED	LH351Z	
FWHM / FWTM	Asymmetric	75%
Efficiency	94 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	400
Light colour	White	45*
Required componer		600
		800
		201
Elektronik GmbH		90°
LED	LED-Pa-L15c2W11c2-xxx-C050-01	
FWHM / FWTM	Asymmetric	200
Efficiency	98 %	
Peak intensity	0.8 cd/lm	400
LEDs/each optic	1	
Light colour	White	45* 000
Required componer	its:	
		80
		30*
SEOUL		13 <sup>3</sup> 0 <sup>6</sup> 10 <sup>5</sup>
SEOUL SEMICONDUCTOR		90*
LED	Acrich MJT 4040	9
FWHM / FWTM	Asymmetric	759200
Efficiency	94 %	
Peak intensity	0.7 cd/lm	607 400
LEDs/each optic	1	
Light colour	White	45* 600
Required componer	its:	
		30* 15* 1800 10*
SEOUL		14 V, 14
SEOUL SEMICONDUCTOR		
LED	Z5	
-	Asymmetric	
FWHM / FWTM	93 %	
FWHM / FWTM Efficiency	93 % 1	
FWHM / FWTM Efficiency LEDs/each optic		
FWHM / FWTM Efficiency LEDs/each optic Light colour Required componer	1 White	
FWHM / FWTM Efficiency LEDs/each optic Light colour	1 White	
FWHM / FWTM Efficiency LEDs/each optic Light colour	1 White	



SEOUL		
SEOUL SEMICONDUCTOR	Z5M1/Z5M2	90° 90°
EED FWHM / FWTM	Asymmetric	75°
	94 %	
Efficiency		60* 60*
Peak intensity	0.8 cd/lm	-40
LEDs/each optic	1	
Light colour Required componer	White	45* 45*
Required componen	15.	$\times$ / $\times$
		800
		$\times$ / $\times$ $\times$
		30* 15 <sup>5</sup> 18 <sup>6</sup> 0 15* 30*
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z5M3	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	504
Peak intensity	0.8 cd/lm	400
LEDs/each optic	1	$X \times I \times X$
Light colour	White	45* 600 45*
Required componer	its:	
		800
		30* 15 <sup>5</sup> 0 <sup>6</sup> 15* 30*
		1 V 10
SEOU		
SEOUL SEMICONDUCTOR		90* 90*
	Z8Y22	84
SEOUL SEMICONDUCTOR	Z8Y22 Asymmetric	23. 26. 26.
SEOUL SEMICONDUCTOR		
seoul semiconductor LED FWHM / FWTM	Asymmetric	90 <sup>4</sup> 73 <sup>4</sup> 60 <sup>4</sup> 60 60 60
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 94 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.9 cd/lm	5° 600 6°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	62 64 65 66 66 66 66 67 66 67 66 67 67
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	20- 20- 20- 20- 20- 20- 20- 20-
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 94 % 0.9 cd/lm 1 White	80
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	80
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 0.9 cd/lm 1 White	80
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR	Asymmetric 94 % 0.9 cd/lm 1 White its:	80
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SECOUL SEMICONDUCTOR LED	Asymmetric 94 % 0.9 cd/lm 1 White hts: Z8Y22P	80
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 94 % 0.9 cd/lm 1 White hts: Z8Y22P Asymmetric	80
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM	Asymmetric 94 % 0.9 cd/lm 1 White Its: Z8Y22P Asymmetric 94 %	100
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1 White tts: Z8Y22P Asymmetric 94 % 0.8 cd/lm	80
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.9 cd/lm 1 White tts: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1 White	80
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White tts: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1 White	80
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White tts: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1 White	80
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White tts: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1 White	80



TOSHIBA Leading Innovation >>>		90 <sup>+</sup>
LED	TL1L3	
FWHM / FWTM	Asymmetric	730 770
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	
LEDS/each optic	u White	400
		45*
Required compone	IIS.	
		600
		$\times$ / $\times$
		30° 15° 800 15° 30°.
TOSHIBA		
Leading Innovation >>>		90* 90*
LED	TL1L4	776
FWHM / FWTM	Asymmetric	200
Efficiency	94 %	507 507 500
Peak intensity	0.9 cd/lm	400
LEDs/each optic	1	
Light colour	White	451 600 451
Required compone	nts:	
		800
		30° 30°
		153 1000 10*
TRIDON	lic	
LED	RLE 2x4 2000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
riequired compone		
TRIDOM		90* 90*
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	730 74°
Efficiency	94 %	
Peak intensity	1 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	51 60 51
Required compone		
		00
		$\times$ / $\times$
		2000
		35° 15° 35°



TRIDON		
		90*
	RLE G1 49x121mm 2000lm xxx EXC OTD	75° 782
FWHM / FWTM	Asymmetric	400
Efficiency	94 %	504 604
Peak intensity	0.8 cd/lm	00
LEDs/each optic	1	
Light colour	White	45° 2200 43°
Required compone	ents:	
		1630
		$\times$ / $\times$
		30* 2000 30*
TRIDON		15 <sup>5</sup> 0 <sup>4</sup> 15 <sup>5</sup>
IKIDUI		90* 90*
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	726
Efficiency	94 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 1200 45*
Required compone	ents:	
		1500
		30" 2000 30" 30"
TRIDOM	NIC .	50° 50°
LED	RLE G1 49x223mm 4000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	75° 400
Efficiency	94 %	
	94 % 0.8 cd/lm	60 <sup>4</sup> 00
Efficiency		60° 60°
Efficiency Peak intensity	0.8 cd/lm	
Efficiency Peak intensity LEDs/each optic	0.8 cd/lm 1 White	6°
Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White	67 <u>00</u> 67
Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White	100 40, 1100 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40, 40,
Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White	100 100 100 100 100 100 100 100
Efficiency Peak intensity LEDs/each optic Light colour Required compone	0.8 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	0.8 cd/lm 1 White ents:	84
Efficiency Peak intensity LEDs/each optic Light colour Required compone	0.8 cd/lm 1 White ents:	51 <sup>4</sup> 50 <sup>2</sup>
Efficiency Peak intensity LEDs/each optic Light colour Required compone	0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM	0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>TRIDON</b> LED FWHM / FWTM Efficiency	0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 %	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity	0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 % 0.8 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 % 0.8 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.8 cd/lm 1 White ents: NICC RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 % 0.8 cd/lm 1 White	



		90° 90°
LED	J Series 3030	732 751
FWHM / FWTM	Asymmetric	200
Efficiency	86 %	504 604
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		
Protective plate	alass	$\times$
	, 9000	800
		130° 15° 30°
		00 <sup>+</sup>
LED	J Series 3030	
FWHM / FWTM	Asymmetric	75° (200 75°
Efficiency	95 %	
Peak intensity	0.8 cd/lm	50° 50°
LEDs/each optic	1	
Light colour	White	8°
Required components:		
		800
		30° 1000 30° 30° 30°
		MA KHI
LED	XHP35 HD	90* 90*
FWHM / FWTM		720 720
	Asymmetric 95 %	
Efficiency		504 200 504
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	-6°
Required components:		300
		130° 700 30° 15° 30°
LED	XP-G2 HE	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		



CREE ≑		
LEDS	XP-G3	90° 90°
FWHM / FWTM	Asymmetric	73 6 70 70 1
Efficiency	84 %	200
Peak intensity	0.6 cd/lm	804 804
LEDs/each optic	1	
Light colour	White	400
Required components:	THE STREET	
i toquiroù componenter		
Protective plate	e, glass	660
		$\times$ / $\setminus$ $\lambda$
		30* 15 <sup>3</sup> 0* 15 <sup>4</sup> 30*
		90*
LED	XP-G3	9
FWHM / FWTM	Asymmetric	257
Efficiency	85 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	400
Light colour	White	450
Required components:		$\times$
Brotostivo plot		040
Protective plate	e, glass	$\times$ / $\setminus$ $\times$
		30* 15 <sup>5</sup> 8% 15* 30*
		90°
LED	XP-G3	
FWHM / FWTM	Asymmetric	75° 100 77°
Efficiency	81 %	200
Peak intensity	0.6 cd/lm	.61 <sup>10</sup> 65 <sup>10</sup>
LEDs/each optic	1	× / - 30
Light colour	White	145° 65'
Required components:		400
C17580_STRADA-22	(2-SHD-WHT	20
Protective plate		
Fiolective plan	e, yiass	30 <sup>4</sup> 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup> 30 <sup>4</sup>
CREE ≑		
LEDS	XP-L2	90* 90*
ED FWHM / FWTM	AP-L2 Asymmetric	78 100 75
Efficiency	85 %	
Peak intensity	0.5 cd/lm	60*
LEDs/each optic	1	
Light colour	White	40 45
Required components:		
		540
Protective plate	e, glass	
Protective plat	e, glass	60



	)S	
LED	LUXEON HL2X	90° 90°
FWHM / FWTM	Asymmetric	730 780
Efficiency	85 %	
Peak intensity	0.6 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	400
Required components:		$\times/\wedge \times$
Protective plate	e, glass	00
		30 <sup>4</sup> 13 <sup>2</sup> 0 <sup>6</sup> 25 <sup>4</sup> 30 <sup>4</sup>
	05	90° 90°
LED	LUXEON V2	
FWHM / FWTM	Asymmetric	73° 200 75°
Efficiency	94 %	
Peak intensity	0.8 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	45" 010 45"
Required components:		$\times$
		80
		30 <sup>4</sup> 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup> 30 <sup>4</sup>
	)S	90* 90*
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
FWHM / FWTM	Asymmetric	75° 75°
Efficiency	96 %	200
-		60° 60°
Peak intensity	0.6 cd/lm	
Peak intensity LEDs/each optic	0.6 cd/lm 1	
LEDs/each optic		<u>60</u>
LEDs/each optic Light colour	1	4°
LEDs/each optic	1	40°
LEDs/each optic Light colour	1	
LEDs/each optic Light colour	1	50° 10° 0° 10° 0°
LEDs/each optic Light colour Required components:	1 White	
LEDs/each optic Light colour Required components:	1 White	5° 50 50 50 50 50 50 50 50 50 50 50 50 50
LEDs/each optic Light colour Required components:	1 White DS LUXEON XR-HL2X (L2H2-xxxxxMLU010)	
LEDs/each optic Light colour Required components:	1 White DS LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric	
LEDs/each optic Light colour Required components:	1 White DS LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 85 %	000 200 200 200 200 200 200 200 200 200
LEDs/each optic Light colour Required components: UED FWHM / FWTM Efficiency Peak intensity	1 White DS LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric	000 200 200 200 200 200 200 200 200 200
LEDs/each optic Light colour Required components: UED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 85 % 0.5 cd/lm	
LEDs/each optic Light colour Required components: UED FWHM / FWTM Efficiency Peak intensity	1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 85 % 0.5 cd/lm 1	90 90 90 90 90 90 90 90 90 90 90 90 90 9
LEDs/each optic Light colour Required components: UED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 85 % 0.5 cd/lm 1 White	
LEDs/each optic Light colour Required components: <b>Control Control</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White S LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 85 % 0.5 cd/lm 1 White	



Image: Delta Delt	20
LED     NF2x757G       FWHM / FWTM     Asymmetric       Efficiency     85 %       Peak intensity     0.7 cd/lm       LEDs/each optic     1       Light colour     White	20
FWHM / FWTM     Asymmetric       Efficiency     85 %       Peak intensity     0.7 cd/lm       LEDs/each optic     1       Light colour     White	
Efficiency 85 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White	
Peak intensity     0.7 cd/lm       LEDs/each optic     1       Light colour     White	
LEDs/each optic 1 Light colour White	
Light colour White	400
Required components:	
Required components.	600
Protective plate, glass	
	200
LED NFSx757G	
FWHM / FWTM Asymmetric	
Efficiency 85 %	200
Peak intensity 0.7 cd/lm	$7 \times \times \times$
LEDs/each optic 1	400
Light colour White	
Required components:	
	600
Protective plate, glass	$  \rangle \times$
	800
50°* 15°	0° 15°
LED NV4WB35AM	
FWHM / FWTM Asymmetric 201	
Efficiency 96 %	- frit
Peak intensity 0.7 cd/lm	
LEDs/each optic 1	400
Light colour White **	
Required components:	- 000
	800
30*	
	ч <u>тэ.</u>
LED NVSW519A	9
FWHM / FWTM Asymmetric	100
Efficiency 87 %	
Peak intensity 0.5 cd/lm	NA
LEDs/each optic 1	
	400
Light colour White	
Light colour White Required components:	500
	200
Required components:	50



<b>Μ</b> ΝΙCΗΙΛ		
LED	NVSW519A	90* 90*
FWHM / FWTM		730 750
Efficiency	Asymmetric 93 %	200
Peak intensity	95 % 0.6 cd/lm	.60* 60*
LEDs/each optic	1 White	40
Light colour Required components:	Wille	·G*
Required components.		600
		30* 25 <sup>5</sup> 0° 15* 30*
<b>Ø</b> ΝΙCΗΙΛ		
LED	NVSxE21A	90* 90*
FWHM / FWTM		12° - 10°
Efficiency	Asymmetric 84 %	200
Peak intensity	84 % 0.8 cd/lm	est for est
LEDs/each optic	1	400
Light colour	' White	
Required components:	white	185°
required components.		$\times$ / $\times$
Protective plate	e, glass	800
		$\times$ / $\setminus$ $\times$
		30*
1		
OSRAM Oth Semicord Inter		
OSRAM Opto Semiconductors	OSCONIO P 3737 (2W version)	
LED	OSCONIQ P 3737 (2W version) Asymmetric	
LED FWHM / FWTM	Asymmetric	200 - 200 200 - 200 200 - 200
LED FWHM / FWTM Efficiency	Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1 White OSCONIQ P 3737 (3W version)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OPTO Semiconductors LED FWHM / FWTM	Asymmetric 94 % 0.9 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.7 cd/lm 1	



OSRAM Opto Semiconductors		
LED	OSCONIQ S 3030 (QSLR31)	**
FWHM / FWTM	Asymmetric	73° 200 75°
Efficiency	96 %	
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	500 × 500
Required components:		X  X
		00
		1000
		30° 13° 30°
OSRAM Opto Semiconductors		90* 99*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75° 75°
Efficiency	87 %	200
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45°
Required components:		$\times$
		00
Protective plate	e, glass	
		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup>
OSRAM		
OSRAM Opto Semiconductors		90°
Opto Semiconductors LED	OSLON Square CSSRM2/CSSRM3	y - y - y - y - y - y - y - y - y - y -
<sup>Opto Semiconductors</sup> LED FWHM / FWTM	Asymmetric	99°
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency	Asymmetric 78 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 78 % 0.6 cd/lm	
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 78 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 78 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 78 % 0.6 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 78 % 0.6 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 78 % 0.6 cd/lm 1 White x2-SHD-BLK	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22	Asymmetric 78 % 0.6 cd/lm 1 White x2-SHD-BLK	ра 10 <sup>4</sup> 10 <sup>4</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 Protective plate OSRAM	Asymmetric 78 % 0.6 cd/lm 1 White x2-SHD-BLK	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 Protective plate OSRAM Opto Semiconductors	Asymmetric 78 % 0.6 cd/lm 1 White K2-SHD-BLK e, glass	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 Protective plate OSRAM	Asymmetric 78 % 0.6 cd/lm 1 White K2-SHD-BLK e, glass OSLON Square CSSRM2/CSSRM3	134
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 78 % 0.6 cd/lm 1 White K2-SHD-BLK e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 78 % 0.6 cd/lm 1 White K2-SHD-BLK e. glass OSLON Square CSSRM2/CSSRM3 Asymmetric 89 %	134
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 78 % 0.6 cd/lm 1 White K2-SHD-BLK e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric	134
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 78 % 0.6 cd/lm 1 White x2-SHD-BLK e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 89 % 0.7 cd/lm	134
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22) Protective plate OSSRAM Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 78 % 0.6 cd/lm 1 White x2-SHD-BLK e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 89 % 0.7 cd/lm 1	200 200 00 <sup>2</sup> 40 40 40
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22) Protective plate OSRAM Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 78 % 0.6 cd/lm 1 White K2-SHD-BLK e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 89 % 0.7 cd/lm 1 White	200 200 00 <sup>2</sup> 40 40 40
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22) Protective plate OSSRAM Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 78 % 0.6 cd/lm 1 White K2-SHD-BLK e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 89 % 0.7 cd/lm 1 White	20 20 01 01 01 01 01 01 01 01 01 0
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 78 % 0.6 cd/lm 1 White K2-SHD-BLK e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 89 % 0.7 cd/lm 1 White	12 <sup>4</sup> 0 <sup>2</sup> 12 <sup>5</sup>



OSRAM		
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	90* 90*
EED FWHM / FWTM	Asymmetric	75° 75°
Efficiency	86 %	200
Peak intensity	0.7 cd/lm	.60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	400
Required components:	Wilde	
		600
Protective plate	e, glass	
		30* 250 30* 30*
OSRAM Opto Semiconductors		30* 90*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75*
Efficiency	87 %	50"
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	460
Light colour	White	45° 45°
Required components:		600
C17677_STRADA-2>	K2-SHD-BLK	
		30* 30*
OSPAM		12 <sup>2</sup> 0 <sup>4</sup> 12 <sup>2</sup>
OSRAM Opto Semiconductors		22 <sup>3</sup> 0 <sup>4</sup> 22 <sup>4</sup>
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	
opto Semiconductors LED FWHM / FWTM	Asymmetric	22 <sup>1</sup> 0 <sup>1</sup> 12 <sup>1</sup>
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency	Asymmetric 81 %	200 00 00 00 00 00 00 00 00 00 00 00 00
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 81 % 0.6 cd/lm	200 00 00 00 00 00 00 00 00 00 00 00 00
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 81 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 81 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 81 % 0.6 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 81 % 0.6 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2)	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT	200 200 200 200 200 200 200 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate OSRAM	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-22 Protective plate OSRAM Opto Semiconductors	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate OSRAM Opto Semiconductors LED	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass OSLON Square PC	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass OSLON Square PC Asymmetric	<u><u><u></u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass OSLON Square PC Asymmetric 89 %	22 <sup>1</sup> 22 <sup>1</sup> 22 <sup>1</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass OSLON Square PC Asymmetric 89 % 0.6 cd/lm	23 <sup>1</sup> 2 <sup>2</sup> 2 <sup>3</sup> 25 <sup>4</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass OSLON Square PC Asymmetric 89 % 0.6 cd/lm 1	133 <u>2</u> <u>15</u> <u>50</u> <u>50</u> <u>60</u> <u>60</u> <u>60</u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass OSLON Square PC Asymmetric 89 % 0.6 cd/lm	23 <sup>1</sup> 2 <sup>2</sup> 2 <sup>3</sup> 25 <sup>5</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass OSLON Square PC Asymmetric 89 % 0.6 cd/lm 1	133 <u>2</u> <u>15</u> <u>50</u> <u>50</u> <u>60</u> <u>60</u> <u>60</u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass OSLON Square PC Asymmetric 89 % 0.6 cd/lm 1 White	20 <u>20</u> <u>20</u> <u>20</u> <u>20</u> <u>20</u> <u>20</u> <u>20</u> <u>2</u>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT e, glass OSLON Square PC Asymmetric 89 % 0.6 cd/lm 1 White	200 - 20 <sup>0</sup>



PHILIPS		90* 99*
LED	Fortimo FastFlex LED 2x8 DAX G4	730 - 752
FWHM / FWTM	Asymmetric	
Efficiency	94 %	504 B07
LEDs/each optic	1	400
Light colour	White	45*
Required components:	White	
		900
		30° 13 <sup>5</sup> 0° 15° 30°
SAMSUN	IG	90*
LED	HILOM RH16 (LH351C)	
FWHM / FWTM	Asymmetric	730 770
Efficiency	87 %	200
Peak intensity	0.7 cd/lm	60°
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		
Protective plate	e, glass	660
		30-
		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup>
SAMSUN	IG	90° 90° 90°
SAMSUN LED	LH351B	90° 90° 90°
	LH351B	13% 99* 99* 99* 99* 99* 99* 99*
LED		200 200 200 200 200 200 200 200
LED FWHM / FWTM	LH351B Asymmetric	22 <sup>1</sup> 0 <sup>2</sup> 22 <sup>1</sup>
LED FWHM / FWTM Efficiency	LH351B Asymmetric 83 %	23° 23° 99° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity	LH351B Asymmetric 83 % 0.6 cd/lm	6°. 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 83 % 0.6 cd/lm 1	- <u>12<sup>1</sup></u> <u>0<sup>1</sup></u> <u>12<sup>1</sup></u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B Asymmetric 83 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 83 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B Asymmetric 83 % 0.6 cd/lm 1 White	23 <sup>1</sup> 25 <sup>1</sup> 6 <sup>2</sup> 25 <sup>1</sup> 27 <sup>1</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LH351B Asymmetric 83 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LH351B Asymmetric 83 % 0.6 cd/lm 1 White e, glass	22 <sup>1</sup> 6 <sup>2</sup> 12 <sup>1</sup> 30 <sup>2</sup> 12 <sup>1</sup> 12 <sup>1</sup> 30 <sup>2</sup> 10 <sup>2</sup> 10 <sup>2</sup> 30 <sup>2</sup> 10 <sup>2</sup> 10 <sup>2</sup> 30 <sup>2</sup> 10 <sup>2</sup> 10 <sup>2</sup> 40 <sup>2</sup> 10 <sup>2</sup> 10 <sup>2</sup> 50 <sup>2</sup> 10 <sup>2</sup> 10 <sup>2</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED	LH351B Asymmetric 83 % 0.6 cd/lm 1 White e, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM	LH351B Asymmetric 83 % 0.6 cd/lm 1 White e, glass LH351C Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency	LH351B Asymmetric 83 % 0.6 cd/lm 1 White e, glass LH351C Asymmetric 81 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity	LH351B Asymmetric 83 % 0.6 cd/lm 1 White e, glass LH351C Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 83 % 0.6 cd/lm 1 White e, glass LH351C Asymmetric 81 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 83 % 0.6 cd/lm 1 White e, glass LH351C Asymmetric 81 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 83 % 0.6 cd/lm 1 White e, glass LH351C Asymmetric 81 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-22	LH351B Asymmetric 83 % 0.6 cd/lm 1 White e, glass LH351C Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B Asymmetric 83 % 0.6 cd/lm 1 White e, glass LH351C Asymmetric 81 % 0.6 cd/lm 1 White K2-SHD-WHT	



SEOUL		
	7510	90* 90*
	Z5M3	750 750
FWHM / FWTM	Asymmetric	200
Efficiency	86 %	.60*
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	(G*)
Required components:		650
Protective plat	e, glass	$\times$ / $\times$
		800
		30* 30 <sup>*</sup> 30 <sup>*</sup>
SEOUL SEMICONDUCTOR		91* 91*
LED	Z5M4	
FWHM / FWTM	Asymmetric	734 752
Efficiency	95 %	200
Peak intensity	0.7 cd/lm	du con
LEDs/each optic	1	400
Light colour	White	45* 5*
Required components:		500
		$\times$ / $\times$
		800
		$\times$ $\land$ $\land$ $\times$
		30° 235 0° 15° 30°
TRIDONI	C	
		9 <sup>1</sup> <u>15<sup>1</sup> 0<sup>1</sup> 15<sup>1</sup> 7</u>
LED	RLE 2x8 4000lm HP EXC2 OTD	20 <u>10 <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u></u>
LED FWHM / FWTM	RLE 2x8 4000lm HP EXC2 OTD Asymmetric	20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 %	20 20 20 20 20 00 00 00
LED FWHM / FWTM Efficiency Peak intensity	RLE 2x8 4000lm HP EXC2 OTD Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1	33 <sup>3</sup> 64 <sup>4</sup> 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White	33 <sup>3</sup> 64 <sup>4</sup> 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White	33 <sup>3</sup> 64 <sup>4</sup> 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White K2-SHD-BLK	33 <sup>3</sup> 64 <sup>4</sup> 69
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White K2-SHD-BLK	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-23	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White K2-SHD-BLK	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 TRIDONIC LED FWHM / FWTM	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White K2-SHD-BLK RLE 2x8 4000lm HP EXC2 OTD Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 TRIDONIC LED FWHM / FWTM Efficiency	RLE 2x8 4000lm HP EXC2 OTD         Asymmetric         88 %         0.7 cd/lm         1         White         K2-SHD-BLK         RLE 2x8 4000lm HP EXC2 OTD         Asymmetric         87 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 TRIDONIC LED FWHM / FWTM Efficiency Peak intensity	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White K2-SHD-BLK RLE 2x8 4000lm HP EXC2 OTD Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White K2-SHD-BLK RLE 2x8 4000lm HP EXC2 OTD Asymmetric 87 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White X2-SHD-BLK RLE 2x8 4000lm HP EXC2 OTD Asymmetric 87 % 0.8 cd/lm	5, 5, 5, 5, 5, 5, 5, 5, 5, 5,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White K2-SHD-BLK RLE 2x8 4000lm HP EXC2 OTD Asymmetric 87 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 <b>TRIDONIC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White X2-SHD-BLK RLE 2x8 4000lm HP EXC2 OTD Asymmetric 87 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 TRIDONIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White X2-SHD-BLK RLE 2x8 4000lm HP EXC2 OTD Asymmetric 87 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17677_STRADA-22 C17677_STRADA-22 C17677_STRADA-22 C17677_STRADA-22 C17677_STRADA-22 C17677_STRADA-22 C17677_STRADA-22	RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White X2-SHD-BLK RLE 2x8 4000lm HP EXC2 OTD Asymmetric 87 % 0.8 cd/lm 1 White	



#### **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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