

# 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:**

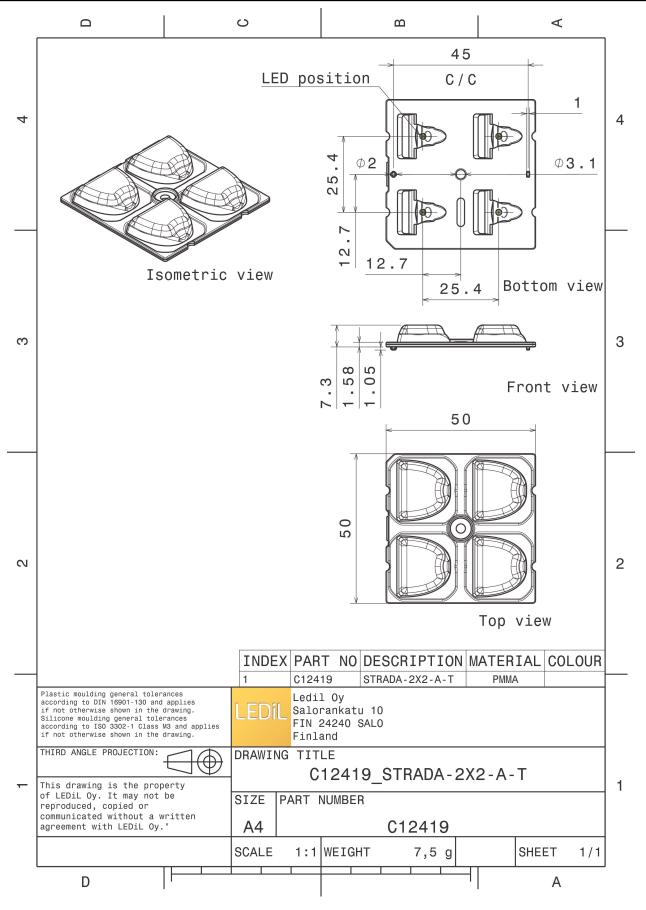
#### Component

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 DATASHEET C12419\_STRADA-2X2-A-T



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



		90* 90*
LED	J Series 5050C 6V E Class	
FWHM / FWTM	Asymmetric	22.0
Efficiency	97 %	200
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	400
Light colour	White	-6° 6°
Required compone	nts:	640
		ant and
		15 <sup>3</sup> 0 <sup>6</sup> 15 <sup>4</sup>
		90* 90*
LED	XM-L	
FWHM / FWTM	Asymmetric	2e
Efficiency	94 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	40
Light colour	White	- 45°
Required compone	nts:	
		600
		$\times$ / / $\times$
		30* 00 0° 10* 30*
	7	
		90* 90*
LED FWHM / FWTM	XM-L2	730 750
Efficiency	Asymmetric 94 %	
Peak intensity	94 % 0.7 cd/lm	.50 <sup>4</sup> 50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	5°
Required component		
		X
		800
		20° 15° 0° 15° 30°
		90* 90*
LED	XM-L3	
FWHM / FWTM	Asymmetric	73%
Efficiency	97 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 55°
Required compone	nts:	
		X     X
		200
		30* 30*
		15 <sup>5</sup> 0 <sup>6</sup> 18 <sup>6</sup>



LED	XP-G	
FWHM / FWTM	Asymmetric	
Efficiency	93 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		<u></u>
	2	90* 90*
LED	XP-G2	
FWHM / FWTM	Asymmetric	73* 200 78*
Efficiency	94 %	
Peak intensity	0.9 cd/lm	.60* 400
LEDs/each optic	1	
Light colour	White	45* 800 45*
Required compone	nts:	$\times$
		000
		$\times$
		1000
		19 <sup>5</sup> 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup>
		90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	73
Efficiency	92 %	200
Peak intensity	0.7 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45+ 400 45+
Required compone	nts:	
	A-2X2-SHD-WHT	
		$\angle$ / $\land$ $\land$
	_	13 <sup>5</sup> 0 <sup>6</sup> 13 <sup>5</sup> 30 <sup>5</sup>
		90* 90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	200
Efficiency	97 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	451 451
Required compone	nts:	× / + ** + / /
		$ \times  \times $
		30*



		20* 20*
LED	XP-G3	
FWHM / FWTM	Asymmetric	784
Efficiency	84 %	200
Peak intensity	0.7 cd/lm	50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	400 45*
Required componer		$ \land \land$
C17677_STRAD		
		500
		30°
		90°
LED	XP-L HD	9
FWHM / FWTM	Asymmetric	720 700 775
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45' 45'
Required componer	nts:	
		$\times$
		810
		300 300
		12 <sup>3</sup> 0 <sup>4</sup> 12 <sup>4</sup>
LED	XP-L HI	
LED FWHM / FWTM	XP-L HI Asymmetric	200 70°
LED FWHM / FWTM Efficiency	XP-L HI Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	XP-L HI Asymmetric 94 % 0.9 cd/m	25 <sup>2</sup> 6 <sup>2</sup> 15 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L HI Asymmetric 94 % 0.9 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI Asymmetric 94 % 0.9 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L HI Asymmetric 94 % 0.9 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI Asymmetric 94 % 0.9 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI Asymmetric 94 % 0.9 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L HI Asymmetric 94 % 0.9 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XP-L HI Asymmetric 94 % 0.9 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-L HI Asymmetric 94 % 0.9 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-L HI Asymmetric 94 % 0.9 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREEE>LED LED FWHM / FWTM	XP-L HI Asymmetric 94 % 0.9 cd/lm 1 White hts: XP-L2 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREEE>LED LED FWHM / FWTM Efficiency	XP-L HI Asymmetric 94 % 0.9 cd/lm 1 White hts: XP-L2 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity	XP-L HI Asymmetric 94 % 0.9 cd/m 1 White hts: XP-L2 Asymmetric 94 % 0.6 cd/m	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L HI Asymmetric 94 % 0.9 cd/m 1 White hts: XP-L2 Asymmetric 94 % 0.6 cd/m 1	
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	XP-L HI Asymmetric 94 % 0.9 cd/m 1 White hts: XP-L2 Asymmetric 94 % 0.6 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L HI Asymmetric 94 % 0.9 cd/m 1 White hts: XP-L2 Asymmetric 94 % 0.6 cd/m 1 White	20° - 20° -
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	XP-L HI Asymmetric 94 % 0.9 cd/m 1 White hts: XP-L2 Asymmetric 94 % 0.6 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	XP-L HI Asymmetric 94 % 0.9 cd/m 1 White hts: XP-L2 Asymmetric 94 % 0.6 cd/m 1 White	



LED       XT-E         FWHM / FWTM       Asymmetric         Efficiency       93 %         Peak intensity       0.5 cd/lm         LEDs/each optic       1	90*
FWHM / FWTM     Asymmetric       Efficiency     93 %       Peak intensity     0.5 cd/lm	
Efficiency 93 % Peak intensity 0.5 cd/lm	
Peak intensity 0.5 cd/lm	75
	60*
Light colour White	45+
Required components:	
	$\boldsymbol{\times}$
80	$\sim$
	$\rightarrow$
40 CEL *16	5° 30*
LUMILEDS	1
	90*
70	
LED LUXEON H50-2	
FWHM / FWTM Asymmetric	607
Efficiency 0 %	
LEDs/each optic 1	
Light colour White	45*
Required components:	$\backslash$
	$\times$
00	$\langle \rangle$
30*	30*
LUMILEDS	90*
LED LUXEON MZ	
FWHM / FWTM Asymmetric	750
Efficiency 94 %	- Leve
Peak intensity 0.8 cd/lm	
LEDs/each optic 1	$\wedge$
Light colour White	45*
Required components:	$\times$
	$\sim$
	X
	$\sim$
0.0	30*
300 307 120 100 100 100 100 100 100 100 100 100	5° 30°
0.0	5* 30*
00           30*           10*           10*           10*	5° 30°
ED LUXEON Q	5° 30°
ED LUXEON Q	5° 30°
ED LUXEON Q FWHM / FWTM Asymmetric Efficiency 94 %	37 30 <sup>7</sup> 97 97 97 97 97
Image: Second	97 97' 97' 97' 97' 97' 97'
Image: Search optic 1       Image: Search optic 1	97 97 97 97 97 97 97 97 97 97 97 97 97 9
ELUMILEDS         LED       LUXEON Q         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       0.8 cd/lm         LEDs/each optic       1         Light colour       White	90 90 90 90 90 90 90 90 90 90 90 90 90
Image: Search optic 1       Image: Search optic 1	9°
ELUMILEDS         LED       LUXEON Q         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       0.8 cd/lm         LEDs/each optic       1         Light colour       White	9°
ELUMILEDS         LED       LUXEON Q         FWHM / FWTM       Asymmetric         Efficiency       94 %         Peak intensity       0.8 cd/lm         LEDs/each optic       1         Light colour       White	61 62 92



🤭 LUMIL	EDS	90* 90*
LED	LUXEON Rebel ES	
FWHM / FWTM	Asymmetric	73* 78*
Efficiency	93 %	
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	400
Light colour	White	45*
Required compone	nts:	
		200
		30° 15 <sup>5</sup> 0° 15° 30°
🤭 LUMIL	EDS	90* 90*
LED	LUXEON T	
FWHM / FWTM	Asymmetric	79* 200 78*
Efficiency	94 %	
Peak intensity	0.8 cd/lm	60* 400 60*
LEDs/each optic	1	
Light colour	White	45° 600 65°
Required compone	nts:	$\times$
		200
		$\times$
		1000
		<sup>30</sup> 15 <sup>3</sup> 0 <sup>6</sup> 15 <sup>6</sup>
🖉 LUMIL	EDS	80* 80
	EDS LUXEON TX	8°
		10 <sup>4</sup> 10 <sup>4</sup>
LED	LUXEON TX	90° 90°
LED FWHM / FWTM	LUXEON TX Asymmetric	20 20 60 <sup>4</sup> 600 60 <sup>4</sup>
LED FWHM / FWTM Efficiency	LUXEON TX Asymmetric 94 %	95 <sup>-</sup> 72- 06 <sup>-</sup> 00 <sup>-</sup> 00 <sup>-</sup>
LED FWHM / FWTM Efficiency Peak intensity	LUXEON TX Asymmetric 94 % 0.9 cd/lm	57 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White	9° 9° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0
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	97 97 30 00 05 60 07 60 00 07 60 00 00 00 00
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 Required compone	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White nts:	23 00 00 00 00 00 00 00 00 00 00 00 00 00
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 Ints:	
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 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone WIST Vour solut LED FWHM / FWTM Efficiency Peak intensity	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White Ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm	
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 Ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm 1	
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 Light colour	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White Ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm 1 White	60.
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 Ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm 1 White	00° 60
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 Light colour	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White Ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm 1 White	00° 60
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 Light colour	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White Ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm 1 White	60° 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MSST Your solut LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 94 % 0.9 cd/lm 1 White Ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 98 % 0.7 cd/lm 1 White	er 60



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> 30 <sup>4</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



OSRAM Opto Semiconductors		90* 92*
LED	OSLON Square PC	
FWHM / FWTM	Asymmetric	73°
Efficiency	94 %	
Peak intensity	0.8 cd/lm	60* 60*
LEDs/each optic	1	400
Light colour	White	45° 6°
Required compone	nts:	640
		800
		30*
DIIII		23 <sup>3</sup> 0 <sup>4</sup> 23 <sup>3</sup>
PHILIF	5	90* 90*
LED	Fortimo FastFlex LED 2x8 DA G4	
FWHM / FWTM	Asymmetric	73° 200 78°
Efficiency	94 %	
Peak intensity	0.9 cd/lm	400
LEDs/each optic	1	
Light colour	White	45% 000 °C*
Required compone	nts:	$\times$
		000
		1000 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup> 30 <sup>4</sup>
PHILIP	S	
LED	Fortimo FastFlex LED 2x8 DA G4+	90* 90*
FWHM / FWTM	Asymmetric	75°
Efficiency	98 %	
Peak intensity	0.7 cd/lm	60 <sup>4</sup> 60 <sup>4</sup> .
LEDs/each optic	1	400
Light colour	White	45°
Required compone	nts:	640
		300
PHILIF	S	90* 90*
LED	Fortimo FastFlex LED 2x8 DA G5	
FWHM / FWTM	Asymmetric	78° 200 75°
Efficiency	98 %	
Peak intensity	0.7 cd/lm	50 <sup></sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	57 57
	White	6° 6°
Light colour	White	6° (r)
Light colour	White	6 <sup>5</sup> 00 67
Light colour	White	



SAMS	UNG	90*
LED	HiLOM RC12 Z (LH181B)	
FWHM / FWTM	Asymmetric	73* 200
Efficiency	99 %	
Peak intensity	0.9 cd/lm	60 <sup>+</sup>
LEDs/each optic	1	60
Light colour	White	
Required compone	ents:	200
		1000
		220
SAMS		15, 6, 75,
		90*
LED	HiLOM RH16 (LH351C)	734
FWHM / FWTM	Asymmetric	
Efficiency	94 %	534
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	40
Light colour	White	er.
Required compone	ents:	6/0
		30° 25 <sup>5</sup> 0° 15°
SAMS	UNG	
		80*
LED	LH351B	90° 700
LED FWHM / FWTM	LH351B Asymmetric	90° 750 200
LED FWHM / FWTM Efficiency	LH351B	97 73 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity	LH351B Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	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	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 SAMSI LED FWHM / FWTM	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	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 SAMSI LED FWHM / FWTM Efficiency Peak intensity	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents: UNG LH351D Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents: UNC LH351D Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS 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 SAMS 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 SAMS 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 SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 94 % 0.7 cd/lm 1 White ents:	



SAMSI	UNG	90*
LED	LH351Z	
FWHM / FWTM	Asymmetric	729
Efficiency	94 %	
Peak intensity	0.8 cd/lm	50 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45'
Required compone	ents:	800
		200
		30° 32 46, 37 37
Elektronik GmbH	LED-Pa-L15c2W11c2-xxx-C050-01	90°
EED FWHM / FWTM	Asymmetric	70
Efficiency	98 %	
Peak intensity	0.8 cd/lm	. 50 <sup>4</sup> 400 60
LEDs/each optic	1	
Light colour	White	51 600 T
Required compone		
riequieu componi		0,0
		2000
		30° 15° 30°
SEOUL		
LED	Acrich MJT 4040	
FWHM / FWTM	Asymmetric	751
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45 <sup>+</sup> 45
Required compone		600
		000
		30° 300 30
SEOUL		22 <sup>0</sup>
SEOUL SEMICONDUCTOR		
LED	Z5	
FWHM / FWTM	Asymmetric	
Efficiency	93 %	
LEDs/each optic	1	
Light colour	White	
Required compone		



SEOUL		
	7514 (7510)	90° 90°
LED	Z5M1/Z5M2	734 784
FWHM / FWTM	Asymmetric	200
Efficiency	94 %	60- 60-
Peak intensity	0.8 cd/lm	440
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required compone	nts:	
		000
		30* 30*
SEOUL		137 1950 137
SEOUL SEMICONDUCTOR		90* 90*
LED	Z5M3	
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	45+ 000 45+
Required compone	nts:	
		800
		X   X
		1000
		30° 30° 15°
		15 <sup>2</sup> 0 <sup>4</sup> 15 <sup>2</sup>
SEOUL		
SEOUL SEMICONDUCTOR	78722	99 <sup>4</sup> 97 <sup>4</sup>
seoul semiconductor	Z8Y22 Asymmetric	
seoul semiconductor LED FWHM / FWTM	Asymmetric	25° C° 25°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 94 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.9 cd/lm	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.9 cd/lm 1 White nts:	
stoul stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.9 cd/lm 1 White Ints: Z8Y22P	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconductor LED FWHM / FWTM	Asymmetric 94 % 0.9 cd/lm 1 White nts: Z8Y22P Asymmetric	
stoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconbuctor LED FWHM / FWTM Efficiency	Asymmetric 94 % 0.9 cd/lm 1 White nts: Z8Y22P Asymmetric 94 %	
stoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.9 cd/lm 1 White nts: Z8Y22P Asymmetric 94 % 0.8 cd/lm	
stoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1 White nts: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1	
stoul stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White Ints: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1 White	
stoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1 White Ints: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1 White	
stoul stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White Ints: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1 White	
stoul stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White Ints: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1 White	
stoul stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White Ints: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1 White	



TOSHIBA Leading Innovation >>>		90* 90*
LED	TL1L3	<u> </u>
FWHM / FWTM	Asymmetric	750 750
Efficiency	94 %	
Peak intensity	0.7 cd/lm	50* 50*
LEDs/each optic	1	
LEDS/each optic	u White	400
		45°
Required compone	ins.	
		600
		$\times$ / $\times$
		30° 35° 860 30°
TOSHIBA		
Leading Innovation >>>		90* 90*
LED	TL1L4	740
FWHM / FWTM	Asymmetric	200
Efficiency	94 %	504 504
Peak intensity	0.9 cd/lm	40
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required compone	nts:	
		800
		30* 30*
		19 <sup>5</sup> 1080 15°
TRIDON	IIC	
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°
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	730 70
Efficiency	94 %	
Peak intensity	1 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	5° 00 5°
Required compone		
		00
		$\times$ / $\times$
		1000
		30° 15° 50°



TRIDON		
		90* 90*
	RLE G1 49x121mm 2000lm xxx EXC OTD	73%
FWHM / FWTM	Asymmetric	400
Efficiency	94 %	604 604
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	45* <u>1200</u> 45*
Required compone	ents:	
		1670
		30* 2000 30* 30*
TRIDON		
		90* 94*
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	75°
FWHM / FWTM	Asymmetric	400
Efficiency	94 %	50* 60*
Peak intensity	0.8 cd/lm	200
LEDs/each optic	1	
Light colour	White	45° 1220 65°
Required compone	ents:	
		1600
		$\times$ $\land$ $\times$
		30° 2000 30° 30°
TRIDON		
		90* 90*
	RLE G1 49x223mm 4000lm xxx EXC OTD	731 782
FWHM / FWTM	Asymmetric	400
Efficiency	94 %	60°
Efficiency Peak intensity	94 % 0.8 cd/lm	60° 60°
Efficiency Peak intensity LEDs/each optic	94 % 0.8 cd/lm 1	60° 60° 000
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White	67 <u>120</u> 67
Efficiency Peak intensity LEDs/each optic	94 % 0.8 cd/lm 1 White	61 <sup>4</sup> 61 <sup>4</sup> 61 <sup>4</sup> 1200 6 <sup>4</sup>
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White	60°
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White	60° 60° 60° 60° 60° 60° 60° 60° 60° 60°
Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 0.8 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 0.8 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	94 % 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	94 % 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	94 % 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	94 % 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 <b>TRIDON</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.8 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.8 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White ents:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.8 cd/lm 1 White ents:	



		MA EHI
	V(UD051UD	90* 5
LED	XHP35 HD	778
FWHM / FWTM	Asymmetric	
Efficiency	95 %	504 6
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 400 41
Required components:		
		30° 700 30° 30° 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:		
		90*
	XP-G3	75* 100 75
FWHM / FWTM	Asymmetric 81 %	
Efficiency Peak intensity	0.6 cd/lm	60° 200 60
LEDs/each optic	1	
Light colour	' White	
Required components:	White	400
C17580_STRADA-22	(2-SHD-WHT	
		X
Protective plate	e, glass	010
		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>9</sup>
UREE = 3030		
		90 <sup>+</sup> 90
LED	XP-G3	50 <sup>4</sup>
LED FWHM / FWTM	Asymmetric	90 <sup>4</sup> 90 30 <sup>4</sup> 70
LED FWHM / FWTM Efficiency	Asymmetric 84 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.6 cd/lm	8° 99 79 6° 00 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.6 cd/lm 1 White	



LED	XP-G3	× 1
FWHM / FWTM	Asymmetric	75°
Efficiency	85 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	400
Required components:	white	497
Required components.		
Protective plate	glass	
		30* 15 <sup>3</sup> 880 15* 30*
		90* 90*
LED	XP-L2	
FWHM / FWTM	Asymmetric	75%
Efficiency	85 %	20
Peak intensity	0.5 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	45* 400 43*
Required components:		500
Protective plate	glass	600
		30* 700 30*
	S	
LED	LUXEON HL2X	90" 90"
EU FWHM / FWTM		750 750
Efficiency	Asymmetric 85 %	
Peak intensity	0.6 cd/lm	60*
LEDs/each optic	1	
Light colour	White	
Required components:	wille	
required components.		
Protective plate	glass	600
		$\times$ / $\times$ / $\times$
		20 <sup>+</sup> 23 0 <sup>+</sup> 15 30 <sup>+</sup>
	S	20 <sup>10</sup> 20 <sup>1</sup> 20 <sup>1</sup> 20 <sup>1</sup>
		20 <sup>10</sup> 20 <sup>1</sup> 20 <sup>1</sup> 20 <sup>1</sup>
LED	LUXEON V2	20 <sup>10</sup> 20 <sup>10</sup> 20 <sup>10</sup>
LED FWHM / FWTM		20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency	LUXEON V2 Asymmetric 94 %	20 <sup>4</sup> 0 <sup>4</sup> 0 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity	LUXEON V2 Asymmetric	20 <sup>4</sup> 0 <sup>4</sup> 0 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON V2 Asymmetric 94 % 0.8 cd/lm 1	20 <sup>4</sup> 0 <sup>4</sup> 0 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V2 Asymmetric 94 % 0.8 cd/lm	13 <sup>1</sup> 2 <sup>2</sup> 13 <sup>2</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V2 Asymmetric 94 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON V2 Asymmetric 94 % 0.8 cd/lm 1	13 <sup>1</sup> 2 <sup>1</sup> 13 <sup>1</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V2 Asymmetric 94 % 0.8 cd/lm 1	13 <sup>1</sup> 2 <sup>1</sup> 13 <sup>1</sup>



🤭 LUMILEI	DS S	90. 90.
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
FWHM / FWTM	Asymmetric	200
Efficiency	96 %	604 60
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	400
Light colour	White	45*
Required components:		640
		30° 15° 9°
🥙 LUMILEI	DS	30* 80
LED	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
FWHM / FWTM	Asymmetric	750 750
Efficiency	85 %	200
Peak intensity	0.5 cd/lm	10 <sup>-</sup>
LEDs/each optic	1	
Light colour	White	45* 440 45'
Required components:		
Protective plat	e glass	
	, 9800	000
		30° 700 30° 30° 30°
MICHIΛ		90*
LED	NFSx757G	
FWHM / FWTM	Asymmetric	75'
Efficiency	85 %	
Peak intensity		80° 60°
	0.7 cd/lm	
LEDs/each optic	0.7 cd/lm 1	40
Light colour		er
	1	e <sup>1</sup> e <sup>2</sup>
Light colour Required components:	1 White	-0°
Light colour	1 White	6° 69 60
Light colour Required components:	1 White	
Light colour Required components:	1 White	
Light colour Required components: Protective plat	1 White	
Light colour Required components: Protective plat	1 White e, glass	00 00 00 00 00 00 00 00 00 00
Light colour Required components: Protective plat	1 White e, glass NV4WB35AM	
Light colour Required components: Protective plat	1 White e, glass NV4WB35AM Asymmetric	60 50 <sup>4</sup> 55 50 <sup>4</sup> 55
Light colour Required components: Protective plat	1 White e, glass NV4WB35AM Asymmetric 96 %	20 <sup>-</sup> 20 <sup>-</sup> 2
Light colour Required components: Protective plat	1 White e, glass NV4WB35AM Asymmetric 96 % 0.7 cd/lm	20 <sup>-</sup> 20 <sup>-</sup> 2
Light colour Required components: Protective plat	1 White e, glass NV4WB35AM Asymmetric 96 % 0.7 cd/lm 1	20 00 00 00 00 00 00 00 00 00
Light colour Required components: Protective plat	1 White e, glass NV4WB35AM Asymmetric 96 % 0.7 cd/lm 1	
Light colour Required components: Protective plat	1 White e, glass NV4WB35AM Asymmetric 96 % 0.7 cd/lm 1	



<b>ΜΝΙCΗΙΛ</b>		
LED	NVSW519A	
FWHM / FWTM	Asymmetric	730 750
Efficiency	93 %	200
Peak intensity	0.6 cd/lm	66* 60*
LEDs/each optic	1	
Light colour	White	400 400
Required components:	wine	49.
required components.		800
		$\times$ / $\mid$ $\setminus$ $\times$
		30° 15° 0° 15°
<b>ΜΝΙCΗΙΛ</b>		90°
LED	NVSW519A	9
FWHM / FWTM	Asymmetric	730 500 75°
Efficiency	87 %	210
Peak intensity	0.5 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		
Protective plate	, glass	600
		30° 700 50°
<b>Μ</b> ΝΙCΗΙΛ		
LED	NVSxE21A	
FWHM / FWTM	Asymmetric	75%
Efficiency	84 %	
Peak intensity		604 604
	0.8 cd/lm	
	0.8 cd/lm 1	460
LEDs/each optic		40
	1	67 00 67
LEDs/each optic Light colour Required components:	1 White	6 <sup>7</sup> 60 6 <sup>1</sup>
LEDs/each optic Light colour	1 White	60 60 60 60 60
LEDs/each optic Light colour Required components:	1 White	40 40 40 40 40 40 40 40 40 40
LEDs/each optic Light colour Required components: Protective plate	1 White	20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components: Protective plate	1 White	40° 400 10° 10° 10° 10° 10° 10° 10° 10° 10° 10°
LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED	1 White e, glass OSCONIQ P 3737 (2W version)	
LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM	1 White e, glass OSCONIQ P 3737 (2W version) Asymmetric	200 200 200 200 200 200 200 200
LEDs/each optic Light colour Required components: Protective plate Opto Semiconductors LED FWHM / FWTM Efficiency	1 White e, glass OSCONIQ P 3737 (2W version) Asymmetric 94 %	
LEDs/each optic Light colour Required components: Protective plate Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	1 White A, glass OSCONIQ P 3737 (2W version) Asymmetric 94 % 0.9 cd/lm	
LEDs/each optic Light colour Required components: Protective plate Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White a, glass OSCONIQ P 3737 (2W version) Asymmetric 94 % 0.9 cd/lm 1	
LEDs/each optic Light colour Required components: Protective plate Optio Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White A, glass OSCONIQ P 3737 (2W version) Asymmetric 94 % 0.9 cd/lm	
LEDs/each optic Light colour Required components: Protective plate Optio Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White a, glass OSCONIQ P 3737 (2W version) Asymmetric 94 % 0.9 cd/lm 1	
LEDs/each optic Light colour Required components: Protective plate Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White a, glass OSCONIQ P 3737 (2W version) Asymmetric 94 % 0.9 cd/lm 1	
LEDs/each optic Light colour Required components: Protective plate OSCAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White a, glass OSCONIQ P 3737 (2W version) Asymmetric 94 % 0.9 cd/lm 1	



OSRAM		
Opto Semiconductors	OSCONIQ P 3737 (3W version)	y0"
FWHM / FWTM	Asymmetric	73%
Efficiency	94 %	
	94 % 0.7 cd/lm	50° 50°
Peak intensity		400
LEDs/each optic		
Light colour	White	·6· • • • • • • • • • • • • • • • • • •
Required components:		50
		X   X
		800
		30° 15° 30°
OSRAM		
Opto Semiconductors	OSCONIQ S 3030 (QSLR31)	90° 99°
FWHM / FWTM		736 700 772
Efficiency	Asymmetric 96 %	
	90 % 0.7 cd/lm	.50° 60°.
Peak intensity		
LEDs/each optic	1 White	X 600 X
Light colour	white	-65+ -65+
Required components:		000
		$\times$
		1000
		30* 15 <sup>5</sup> 0° 15* 30*
OSRAM		
Onto Comission durations		
Opto Semiconductors	OSI ON Square CSSPM2/CSSPM3	90*
Opto Semiconductors LED	OSLON Square CSSRM2/CSSRM3	25
Opto Semiconductors LED FWHM / FWTM	Asymmetric	20 20 20
<sup>Opto Semiconductors</sup> LED FWHM / FWTM Efficiency	Asymmetric 81 %	90 734 614 200 604 604
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 81 % 0.6 cd/lm	90° 73° 60° 60°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 81 % 0.6 cd/lm 1	90 75 64 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 81 % 0.6 cd/lm	97 75 64 67 67 69 67
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 81 % 0.6 cd/lm 1 White	97 73 64 60 60 67 67
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 81 % 0.6 cd/lm 1 White	97 73 64 10 10 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 81 % 0.6 cd/lm 1 White 22-SHD-WHT	97 23 64 60 60 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate	Asymmetric 81 % 0.6 cd/lm 1 White 22-SHD-WHT	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate	Asymmetric 81 % 0.6 cd/lm 1 White 22-SHD-WHT	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate OSRAM Opto Semiconductors	Asymmetric 81 % 0.6 cd/lm 1 White 22-SHD-WHT a, 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 22-SHD-WHT 3, glass OSLON Square CSSRM2/CSSRM3	
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 22-SHD-WHT 2, glass OSLON Square CSSRM2/CSSRM3 Asymmetric	12 <sup>3</sup> 2 <sup>2</sup> <sub>4</sub> 13 <sup>7</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	Asymmetric 81 % 0.6 cd/lm 1 White 22-SHD-WHT 22-SHD-WHT OSLON Square CSSRM2/CSSRM3 Asymmetric 87 %	12 <sup>4</sup> 2 <sup>4</sup> 12 <sup>4</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 22-SHD-WHT a, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.7 cd/lm	12 <sup>4</sup> 2 <sup>4</sup> 12 <sup>4</sup>
opte 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 LEDs/each optic	Asymmetric 81 % 0.6 cd/lm 1 White 22-SHD-WHT a, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.7 cd/lm 1	12 <sup>1</sup> 2 <sup>2</sup> 2 <sup>2</sup> 2 <sup>1</sup> 2 <sup>1</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 LEDs/each optic Light colour	Asymmetric 81 % 0.6 cd/lm 1 White 22-SHD-WHT a, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.7 cd/lm	12 <sup>4</sup> 2 <sup>4</sup> 12 <sup>4</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 LEDs/each optic	Asymmetric 81 % 0.6 cd/lm 1 White 22-SHD-WHT a, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.7 cd/lm 1	12 <sup>4</sup> 2 <sup>4</sup> 12 <sup>4</sup>
opte 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 22-SHD-WHT 2, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.7 cd/lm 1 White	12 <sup>3</sup> 2 <sup>3</sup> 13 <sup>7</sup> 90 <sup>7</sup> 95 <sup>7</sup>
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate OSSRAM Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 81 % 0.6 cd/lm 1 White 22-SHD-WHT 2, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.7 cd/lm 1 White	12 <sup>4</sup> 2 <sup>4</sup> 12 <sup>4</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 LEDs/each optic Light colour Required components:	Asymmetric 81 % 0.6 cd/lm 1 White 22-SHD-WHT 2, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.7 cd/lm 1 White	23 <sup>1</sup> 2 <sup>2</sup> 15 <sup>4</sup>



OCDAM		
OSRAM Opto Semiconductors		90° - 99°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	754
Efficiency	78 %	200
Peak intensity	0.6 cd/lm	60° 60°.
LEDs/each optic	1	
Light colour	White	400 400 45°
Required components:		
C17677_STRADA-22	K2-SHD-BLK	
Protective plate	e, glass	30° 15° 30°
OSRAM Opto Semiconductors		80 <sup>4</sup>
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	734
Efficiency	89 %	
Peak intensity	0.7 cd/lm	60° 60°
LEDs/each optic	1	400
Light colour	White	45* 45*
Required components:		600
C17580_STRADA-22	K2-SHD-WHT	
		15° 0° 15°
OSRAM Opto Semiconductors		90° 99°
OSRAM Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	99 <sup>4</sup> 99 <sup>4</sup>
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3 Asymmetric	<u><u>y</u>, <u>y</u>, <u>y</u>, <u>y</u>, <u>y</u>, <u>y</u>, <u>y</u>, <u>y</u>,</u>
Opto Semiconductors LED FWHM / FWTM	OSLON Square CSSRM2/CSSRM3 Asymmetric 86 %	99 <sup>1</sup> 75 <sup>1</sup> 70 70
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency	Asymmetric	99 <sup>0</sup> 73 <sup>1</sup> 60 <sup>4</sup> 200 60 <sup>4</sup> 60 <sup>4</sup>
Opto Semiconductors LED FWHM / FWTM	Asymmetric 86 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 86 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 86 % 0.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 86 % 0.7 cd/lm 1 White e, glass	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED	Asymmetric 86 % 0.7 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 86 % 0.7 cd/lm 1 White e, glass	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 86 % 0.7 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 86 % 0.7 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 0.7 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.7 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.7 cd/lm	20 <sup>1</sup> 20 <sup>1</sup> 20 <sup>1</sup> 20 <sup>1</sup>
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.7 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.7 cd/lm 1 White	20 <sup>1</sup> 20 <sup>1</sup> 20 <sup>1</sup> 20 <sup>1</sup>
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSSRAM Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 0.7 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.7 cd/lm 1 White	
opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate OSRAM Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 86 % 0.7 cd/lm 1 White e, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 87 % 0.7 cd/lm 1 White	

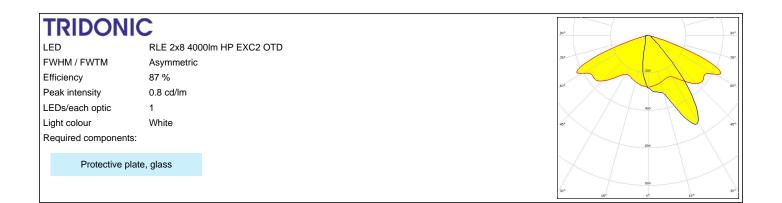


OSRAM Opto Semiconductors		
LED	OSLON Square PC	90°
FWHM / FWTM	Asymmetric	750 750
Efficiency	89 %	200
Peak intensity	0.6 cd/lm	504 604
LEDs/each optic	1	400
Light colour	White	45°
Required components:		
riedanea compensioner		010
Protective plate	e, glass	X    X
		20
		90* 90° 15° 90°
PHILIPS		
		90° 90°
LED	Fortimo FastFlex LED 2x8 DAX G4	730 730
EWHM / FWTM	Asymmetric	200
Efficiency	94 %	60* 60*
LEDs/each optic	1	400
Light colour	White	A5°
Required components:		
		800
		30° 15° 30°
SAMSUN	IG	
		80°
LED	HiLOM RH16 (LH351C)	90°
LED FWHM / FWTM	HiLOM RH16 (LH351C) Asymmetric	
LED FWHM / FWTM Efficiency	HiLOM RH16 (LH351C) Asymmetric 87 %	
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm	90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White e, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 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	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White e, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SANNSUN LED FWHM / FWTM Efficiency	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White e, glass LH351B Asymmetric 83 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSSUN LED FWHM / FWTM Efficiency Peak intensity	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White e, glass	
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	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White e, glass LH351B Asymmetric 83 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White e, glass LH351B Asymmetric 83 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White e, glass LH351B Asymmetric 83 % 0.6 cd/lm 1 White	
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	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White e, glass LH351B Asymmetric 83 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	HiLOM RH16 (LH351C) Asymmetric 87 % 0.7 cd/lm 1 White e, glass LH351B Asymmetric 83 % 0.6 cd/lm 1 White	



SAMSUN	IG	90 <sup>+</sup> 90 <sup>+</sup>
LED	LH351C	
FWHM / FWTM	Asymmetric	738 775
Efficiency	81 %	200
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	400 45*
Required components:		
C17580_STRADA-2>	(2-SHD-WHT	
		6/0
Protective plate	e, glass	30 <sup>4</sup> 12 <sup>5</sup> 0 <sup>6</sup> 12 <sup>4</sup> 30 <sup>5</sup>
SEOUL		00 <sup>+</sup>
SEOUL SEMICONDUCTOR	Z5M3	
FWHM / FWTM	Asymmetric	736 735
Efficiency	86 %	200
Peak intensity	0.6 cd/lm	50 <sup>4</sup> 50 <sup>4</sup>
LEDs/each optic	1	400
Light colour	White	45* 45*
Required components:		
Protective plate	e, glass	
		200
0		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup>
SEOUL SEMICONDUCTOR		90* 90*
SECUL SECUL SEMICONDUCTOR	Z5M4	50°
SEOUL SEMICONDUCTOR	Z5M4 Asymmetric	25 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
seoul semiconductor		90° - 90° -
seoul semiconductor LED FWHM / FWTM	Asymmetric	92° - 92° 72° - 92° 64° - 64°
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 95 %	90* 90* 200 200 60* 60*
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 0.7 cd/lm	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.7 cd/lm 1	90° - 90° 73° - 90° 60° - 60° 60° - 60°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1	90° 73° 60° 400 40° 60° 60°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1	90° 73 60° 60° 60° 60° 60° 60° 60° 60° 60° 60°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White	00
SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White	00
SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White RLE 2x8 4000lm HP EXC2 OTD	00
SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White RLE 2x8 4000lm HP EXC2 OTD Asymmetric	00
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>TRIDONIC</b> LED FWHM / FWTM Efficiency	Asymmetric 95 % 0.7 cd/lm 1 White RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 %	00
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>TRIDONIC</b> LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 0.7 cd/lm 1 White RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm	00
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>TRIDONIC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.7 cd/lm 1 White RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1	
seoul seniconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>TRIDONIC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1 White RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm	00
seoul seniconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>TRIDONIC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White	
seou semonoucror LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>TRIDONIC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1 White RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 cd/lm 1 White	
seou senconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>TRIDONIC</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White RLE 2x8 4000lm HP EXC2 OTD Asymmetric 88 % 0.7 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:

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