

## PRODUCT DATASHEET CS15751\_STRADA-2X2MX-8-DWC

## STRADA-2X2MX-8-DWC

Universal road lighting (typically IESNA Type III medium) beam with excellent mixed illuminance and luminance uniformity

#### **SPECIFICATION:**

Dimensions	90.0 x 90.0 mm
Height	13.6 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



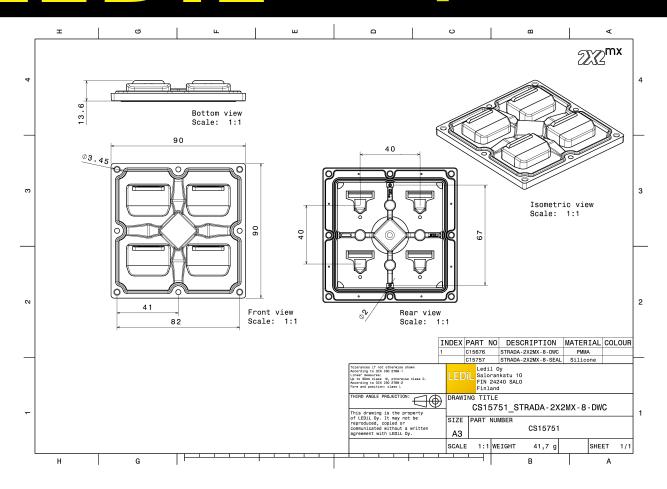
#### **MATERIALS:**

Component	Туре	Material	Colour	Finish
STRADA-2X2MX-8-DWC	Multi-lens	PMMA	clear	
STRADA-2X2MX-8-SEAL	Seal	Silicone	clear	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15751_STRADA-2X2MX-8-DWC	Multi-lens	156	52	52	7.5
» Box size: 476 x 273 x 292 mm					

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



### **OPTICAL RESULTS (MEASURED):**

		90 <sup>4</sup> 90 <sup>4</sup>
LED	CXA/B 15xx	9
FWHM / FWTM	Asymmetric	75* 100 75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60*
LEDs/each optic	1	30
Light colour	White	ete*
Required componer	nts:	400
Bender Wirth: 44	I1 Typ 2x2MX HV	50
		6i0 30° 30°
	EDS	13 <sup>3</sup> 0 <sup>4</sup> 13 <sup>4</sup>
		90* 90*
LED	LUXEON M/MX	750 100 752
FWHM / FWTM	Asymmetric	200
Efficiency	94 %	60* 60*
Peak intensity	0.6 cd/lm	
LEDs/each optic Light colour	1 White	
Required componer		45* 500 45*
Required componer	113.	600
		30° 25 <sup>5</sup> 0 <sup>6</sup> 15* 30*
	EDS	0,°
		50°
LUMIL     LED     FWHM / FWTM	LUXEON XR-7070 (L224-xxxx004MLU010)	20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED		50° 50° 50° 50°
LED FWHM / FWTM	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric	99° 751 60° 60° 500 500 60°
LED FWHM / FWTM Efficiency	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 %	50 73 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm	50 50 50 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White	90° 73° 40° 60° 60° 50° 50° 60° 60° 60° 60° 60° 60° 60° 60° 60° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White	90° 72° 60° 60° 60° 60° 60° 60° 60° 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSU	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SAMSL LED FWHM / FWTM	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SAMSU LED FWHM / FWTM Efficiency	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White Its HiLOM SC16 (LH181B) Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SAMSU LED FWHM / FWTM Efficiency Peak intensity	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White Its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SANSL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SANSL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-7070 (L224-xxxx004MLU010) Asymmetric 97 % 0.6 cd/lm 1 White nts:	



### **OPTICAL RESULTS (MEASURED):**

SCIO		
LED	XLE-S22C4XD16 (XD16)	90* 90*
FWHM / FWTM		750 4 7 750
Efficiency	Asymmetric 94 %	
Peak intensity	94 % 0.7 cd/lm	. 65 <sup>10</sup> 400 60°.
LEDs/each optic Light colour	4 White	60
Required compone		.dr
	10.	
		1000
		30° 15° 30° 30°
SCIO		THY FFT
		90* 90*
	XLE-S22C4XTEHE (XT-E HE)	754 700
FWHM / FWTM Efficiency	Asymmetric 94 %	
Peak intensity	94 % 0.5 cd/lm	60° 200 60°
LEDs/each optic	1	
Light colour	u White	30
Required compone		67 69
	113.	400
		500
		$\times$ $\land$ $\times$
		30* <u>500</u> 30* 30*
		10. 0. 10.
SEOUL		
SEOUL SEMICONDUCTOR		
SEOUL SEMICONDUCTOR	WICOP 5050	10 90 <sup>4</sup>
seoul semiconductor LED FWHM / FWTM	Asymmetric	20° 0° 10° 20° 0° 50°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 97 %	22° 0° 13° 99° 75° 0° 99° 60° 0° 60°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 0.6 cd/lm	9° 79° 100 9°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 0.6 cd/lm 1	90° 90° 20° 00°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.6 cd/lm 1 White	9° 79° 100 9°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 0.6 cd/lm 1 White	90° 90° 20° 00°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.6 cd/lm 1 White	90° 90° 20° 00°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.6 cd/lm 1 White	99° 90° 25° 260 60° 60° 260 00°
stout stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 0.6 cd/lm 1 White	90° 90° 20° 00°
stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 0.6 cd/lm 1 White	99° 90° 25° 260 60° 60° 260 00°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 97 % 0.6 cd/lm 1 White nts:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED	Asymmetric 97 % 0.6 cd/lm 1 White nts: Z8Y22	99° 90° 25° 260 60° 60° 260 00°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM	Asymmetric 97 % 0.6 cd/lm 1 White nts: Z8Y22 Asymmetric	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 97 % 0.6 cd/lm 1 White nts: Z8Y22 Asymmetric 94 %	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 0.6 cd/lm 1 White nts: Z8Y22 Asymmetric	
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 0.6 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 0.7 cd/lm 4	
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.6 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 0.7 cd/lm 4 White	
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 0.6 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 0.7 cd/lm 4 White	
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.6 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 0.7 cd/lm 4 White	
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.6 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 0.7 cd/lm 4 White	



bridgelux.		
LED	Bridgelux SMD 5050	90* 92*
FWHM / FWTM	Asymmetric	730 720
Efficiency	94 %	A F
Peak intensity	0.5 cd/lm	.60°
LEDs/each optic	1	
Light colour	' White	40
Required components:	white	43*
		600
		700
		30* 000 30* 30*
CITIZEN		
		90* 90*
LED	CLU700/701/702/703	200 200
FWHM / FWTM	Asymmetric	N S man 2 /
Efficiency	92 %	604 604
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	XXXX
Light colour	White	45° 500 45°
Required components:		600
Bender Wirth: 434 Ty	p 2x2mx HV	710
		30* 30* 30*
CREE 🚖		
		10°
LED	MHB-A/B	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM	Asymmetric	10 <sup>1</sup> 10 <sup>1</sup> 10 <sup>1</sup> 10 <sup>1</sup> 10 <sup>1</sup> 10 <sup>1</sup> 10 <sup>1</sup> 10 <sup>1</sup>
LED FWHM / FWTM Efficiency	Asymmetric 95 %	50° 75° 60° 200 200 200 50° 80°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 0.4 cd/lm	50° 73° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.4 cd/lm 1	50° 73° 60° 700 700 700 700 700 700 700 700 700 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.4 cd/lm	90° 73° 00° 00° 00° 00° 00° 00° 00° 00° 00° 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.4 cd/lm 1	25° 200 75° 0° 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.4 cd/lm 1	25° 200 75° 0° 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.4 cd/lm 1	25° 200 75° 0° 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.4 cd/lm 1	25° 200 75° 0° 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.4 cd/lm 1	25° 200 75° 0° 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.4 cd/lm 1 White	25° 200 75° 0° 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.4 cd/lm 1 White MHD-E/G	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.4 cd/lm 1 White MHD-E/G Asymmetric	25° 200 75° 0° 000 000 000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LEDs LED FWHM / FWTM Efficiency	Asymmetric 95 % 0.4 cd/lm 1 White MHD-E/G Asymmetric 95 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 0.4 cd/lm 1 White MHD-E/G Asymmetric 95 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.4 cd/lm 1 White MHD-E/G Asymmetric 95 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.4 cd/lm 1 White MHD-E/G Asymmetric 95 % 0.4 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.4 cd/lm 1 White MHD-E/G Asymmetric 95 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.4 cd/lm 1 White MHD-E/G Asymmetric 95 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.4 cd/lm 1 White MHD-E/G Asymmetric 95 % 0.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.4 cd/lm 1 White MHD-E/G Asymmetric 95 % 0.4 cd/lm 1	



CREE ≑		THY YHI
LEDS	NUD50	90* 90*
	XHP50	750 100 750
FWHM / FWTM	Asymmetric	han for
Efficiency	94 %	60°
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	40
Light colour	White	10°
Required components:		
		600
		70
		30° 15° 30°.
		90* 90*
LED	XHP50.2	7 100
FWHM / FWTM	Asymmetric	
Efficiency	93 %	XX
Peak intensity	0.5 cd/lm	300 007
LEDs/each optic	1	$\times \times / \top \setminus \times \times$
Light colour	White	45' 400 45'
Required components:		50
		600
		700
		15 <sup>5</sup> 0 <sup>5</sup> 15 <sup>6</sup>
		90*
LED	XHP70.2	9
FWHM / FWTM	Asymmetric	75 - 100 - 73°
Efficiency	93 %	
Peak intensity	0.4 cd/lm	504 60*
LEDs/each optic	1	
Light colour	White	45* 300
Required components:		
		550
		$\times$
		30* 15* Øb 15* 30*
CREE ≑		
LEDS		90* 90*
	XHP70.3 HD	754 100 75°
FWHM / FWTM	Asymmetric	
Efficiency	93 %	694 694
Peak intensity	0.4 cd/lm	
LEDs/each optic	1 White	200
Light colour	White	400 43 <sup>+</sup>
Required components:		X   X
		200 20 20 20 20 20 20 20 20 20 20 20 20



With / FVTM Asymmetric ficiency 94 % eak intensity 0.6 colfm EDVector Vibile equired components:			
ED XT-E WMM / FWTM Asymmetric ficiency 94% dek intensity 0.8 cd/m EDeSeach.optic 1 ight colour White equired components: ED LUXELON 5050 Round LES WMM / FWTM Asymmetric ficiency 94% dek intensity 0.8 cd/m ED CAU ED CAU	CREE ÷		
WHM / FWTM Asymmetric History 94 % a kinetarity 0.6 cd/m EDVector 1 Hit colour White equired components:	LED	YT E	× ×
finiency 94% definiency 0.6 cd/in Ebs/each opic 1 ght colour White equired components: ED ULVILLEDS ED ULVEON 5050 Round LES WHM /FVTM Asymmetric finiency 94% deak intensity 0.6 cd/in Ebs/each opic 1 ght colour White equired components: ED ULVILEON 7070 WHM /FVTM Asymmetric finiency 94% deak intensity 0.6 cd/in Ebs/each opic 1 ght colour White eaguired components: ED ULVILEON 7070 White / Asymmetric finiency 94% deak intensity 0.6 cd/in Ebs/each opic 1 ght colour White eaguired components: ED ULVILEON 7070 White / Asymmetric finiency 94% deak intensity 0.6 cd/in Ebs/each opic 1 ght colour White eaguired components: ED ULVICHIAC ED ULVEON 7070 White / Asymmetric finiency 94% deak intensity 0.6 cd/in Ebs/each opic 1 ght colour White eaguired components: ED ULVICHIAC ED NF2/75/G WHM /FVTM Asymmetric finiency 95% eak intensity 0.5 cd/in Ebs/each opic 4 ght colour White			790
eak intensity 0.6 col/m ED6/ceach optic 1 flociour White aquired components: FUMILEDS ED ULXEON 5050 Round LES WM / FWTM Asymmetric fficiency 94 % eak intensity 0.6 col/m ED6/ceach optic 1 ght colour White equired components: FUMILEDS ED ULXEON 7070 WM / FWTM Asymmetric fficiency 94 % eak intensity 0.6 col/m ED6/ceach optic 1 ght colour White equired components: FUMILEDS ED ULXEON 7070 WM / FWTM Asymmetric fficiency 94 % eak intensity 0.6 col/m ED6/ceach optic 1 ght colour White ED NEXFOR ED N			
EDVeland polic 1 ght colou White equired components: ED LUXEON 5050 Round LES WHM / FVTM Asymmetric fiteinery 94 % actinensity 0.6 col/m ED/ COLOR ED/ LUXEON 7070 WHM / FVTM Asymmetric fiteinery 94 % actinensity 0.6 col/m ED/ Section ED/ COLOR ED/ CO			50° 50°
ight colour White equired components:			× / +400
equired components:			
Dumileos         ED       LUXEON 5050 Round LES         WMM /FVTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/m         Ebs/each opic       1         ight colour       White         equired components:       Image: Colour of the colour		White	45* 600 45*
ED       LUXEON 5050 Round LES         WHM / FVTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/m         EDs/each optic       1         Ight colour       White         equired components:	Required components:		
ED       LUXEON 5050 Round LES         WHM / FVTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/m         EDs/each optic       1         Ight colour       White         equired components:			800
ED       LUXEON 5050 Round LES         WHM / FVTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/m         EDs/each optic       1         Ight colour       White         equired components:			
ED       LUXEON 5050 Round LES         WHM / FVTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/m         EDs/each optic       1         Ight colour       White         equired components:			30* <u>1000</u> 30*
ED       LUXEON 5050 Round LES         WHM / FVTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/m         EDs/each optic       1         Ight colour       White         equired components:		25	
WHM / FWTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/m         Ebs/each optic       1         ight colour       White         equired components:			90* 90*
ficiency 94% eak intensity 0.6 cd/m EDS/each optic 1 glu colour White equired components:	LED		400
eak intensity 0.6 cd/m EDs/each optic 1 ight colour White equired components: ED LUXEEDTS ED LUXEON 7070 WHM / FVTTM Asymmetric EDs/each optic 1 ight colour White EQuired components: ED LUXEON 7070 WHM / FVTTM Asymmetric ED 6 cd/m EDs/each optic 1 ight colour White ED 1 ight colour W	FWHM / FWTM		a law for the state
EDs/each optic 1 ght colour White equired components: FD LUXEON 7070 WHM LEDS ED LUXEON 7070 WHM / FWTM Asymmetric fficiency 94 % eak intensity 0.6 col/m EDs/each optic 1 ight colour White equired components: FD NF2x757G WHM / FWTM Asymmetric fficiency 95 % eak intensity 0.5 col/m ED NF2x757G WHM / FWTM Asymmetric fficiency 95 % eak intensity 0.5 col/m EDs/each optic 4 ght colour White	Efficiency		50%
ight colour White equired components:	Peak intensity	0.6 cd/lm	
equired components: ED LUXEON 7070 WHM / FWTM Asymmetric fficiency 94 % eak intensity 0.6 cd/m EDs/each optic 1 ght colour White equired components: ED NF2x757G WHM / FWTM Asymmetric fficiency 95 % eak intensity 0.5 cd/m EDs/each optic 4 byt colour White	LEDs/each optic	1	400
ED       LUXEON 7070         WHM / FWTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/m         EDs/each optic       1         ight colour       White	Light colour	White	45° 500 45°
ED       LUXEON 7070         WHM / FWTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/lm         EDs/each optic       1         ight colour       White         equired components:	Required components:		600
ED       LUXEON 7070         WHM / FWTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/lm         EDs/each optic       1         ight colour       White         equired components:			
ED       LUXEON 7070         WHM / FWTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/lm         EDs/each optic       1         ight colour       White         equired components:			710
ED       LUXEON 7070         WHM / FWTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/lm         EDs/each optic       1         ight colour       White         equired components:			200
ED       LUXEON 7070         WHM / FWTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/lm         EDs/each optic       1         ight colour       White         equired components:			
WHM / FWTM       Asymmetric         fficiency       94 %         eak intensity       0.6 cd/lm         EDs/each optic       1         ight colour       White         equired components:		-	
fficiency       94 %         eak intensity       0.6 cd/lm         EDs/each optic       1         ight colour       White         equired components:		)S	20 <sup>1</sup> 0 <sup>1</sup> 10 <sup>1</sup>
eak intensity 0.6 cd/lm EDS/each optic 1 ight colour White equired components:			
EDs/each optic 1 ight colour White equired components: VICHIN ED NF2x757G WHM / FWTM Asymmetric fficiency 95 % eak intensity 0.5 cd/lm EDs/each optic 4 ight colour White		LUXEON 7070	25
EDs/each optic 1   ight colour White   equired components: Image: Component State	LED	LUXEON 7070 Asymmetric	20 22 et 22 22 20 20 20 20 20 20 20 20 20 20 20
ight colour white equired components: White equired components equired co	LED FWHM / FWTM Efficiency	LUXEON 7070 Asymmetric 94 %	20 22 09 22 09 20 00 00 00 00 00 00 00 00 00 00 00 00
equired components:	LED FWHM / FWTM Efficiency Peak intensity	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm	22° 23° 22° 20° 20°
ED       NF2x757G         WHM / FWTM       Asymmetric         fficiency       95 %         eak intensity       0.5 cd/lm         ED/each optic       4         ight colour       White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1	
ED NF2x757G WHM / FWTM Asymmetric fficiency 95 % eak intensity 0.5 cd/lm EDs/each optic 4 ight colour White	LED FWHM / FWTM Efficiency Peak intensity	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1	
ED NF2x757G WHM / FWTM Asymmetric fficiency 95 % eak intensity 0.5 cd/lm EDs/each optic 4 ight colour White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1	
ED NF2x757G WHM / FWTM Asymmetric fficiency 95 % eak intensity 0.5 cd/lm EDs/each optic 4 ight colour White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1	
ED     NF2x757G       WHM / FWTM     Asymmetric       fficiency     95 %       eak intensity     0.5 cd/lm       EDs/each optic     4       ight colour     White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1	
ED     NF2x757G       WHM / FWTM     Asymmetric       fficiency     95 %       eak intensity     0.5 cd/lm       EDs/each optic     4       ight colour     White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1	
WHM / FWTM     Asymmetric       fficiency     95 %       eak intensity     0.5 cd/lm       EDs/each optic     4       ight colour     White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1	
fficiency     95 %       eak intensity     0.5 cd/lm       EDs/each optic     4       ight colour     White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1 White	
eak intensity 0.5 cd/lm EDs/each optic 4 ight colour White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1 White NF2x757G	22 <sup>2</sup> 0 <sup>3</sup> 22 <sup>2</sup>
EDs/each optic 4 ight colour White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1 White NF2x757G Asymmetric	22 <sup>2</sup> 0 <sup>3</sup> 22 <sup>2</sup>
ight colour White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1 White NF2x757G Asymmetric 95 %	22 <sup>2</sup> 0 <sup>3</sup> 22 <sup>2</sup>
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1 White NF2x757G Asymmetric 95 % 0.5 cd/lm	22 <sup>3</sup> 0 <sup>4</sup> 12 <sup>3</sup>
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>ED</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1 White NF2x757G Asymmetric 95 % 0.5 cd/lm 4	22 <sup>2</sup> 0 <sup>3</sup> 22 <sup>2</sup>
30	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>WICHIN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1 White NF2x757G Asymmetric 95 % 0.5 cd/lm 4	22 <sup>2</sup> 0 <sup>3</sup> 22 <sup>2</sup>
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>ED</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1 White NF2x757G Asymmetric 95 % 0.5 cd/lm 4	22 <sup>2</sup> 0 <sup>3</sup> 22 <sup>2</sup>
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>WICHIN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1 White NF2x757G Asymmetric 95 % 0.5 cd/lm 4	22 <sup>2</sup> 0 <sup>3</sup> 22 <sup>2</sup>
20° 20' 20' 0' 0' 0'	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>WICHIN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 7070 Asymmetric 94 % 0.6 cd/lm 1 White NF2x757G Asymmetric 95 % 0.5 cd/lm 4	22 <sup>2</sup> 0 <sup>3</sup> 22 <sup>2</sup>



<b>ΜΝΙCΗΙΛ</b>		
LED	NFMW48xA	90° 90°
FWHM / FWTM	Asymmetric	100 770
Efficiency	94 %	h h h
Peak intensity	0.5 cd/lm	-66 <sup>+</sup>
LEDs/each optic	1 White	40
Light colour	white	45* 500 45*
Required components:		640
		700
		30* 13 <sup>5</sup> 0 <sup>6</sup> 15 <sup>+</sup> 36 <sup>+</sup>
<b>Μ</b> ΝΙCΗΙΛ		I TAYYAH I
LED	NV4WB35AM	90° - 90°
ED FWHM / FWTM	Asymmetric	100 700
Efficiency	95 %	the second second
Peak intensity	0.6 cd/lm	60* 200 60*
LEDs/each optic	1	
Light colour	White	
Required components:	WINC	
required components.		60
		700
		300
		30° 13 <sup>5</sup> 30° 15° 30°
<b>ΜΝΙCΗΙΛ</b>		90* 90*
LED	NV4x144A	
FWHM / FWTM	Asymmetric	13%
Efficiency	93 %	
Peak intensity		50 <sup>4</sup> X 50 <sup>4</sup>
. can interiory	0.4 cd/lm	
LEDs/each optic	0.4 cd/lm 1	
		an
LEDs/each optic	1	er <u>en</u> er
LEDs/each optic Light colour	1	e <sup>n</sup> <u>60</u> e <sup>n</sup>
LEDs/each optic Light colour	1	e <sup>1</sup> 60 6 <sup>1</sup>
LEDs/each optic Light colour	1	40° 400 40°
LEDs/each optic Light colour Required components:	1	
LEDs/each optic Light colour Required components:	1 White	300 40 <sup>°</sup> 20 <sup>0</sup> 20 <sup>°</sup> 20 <sup>°</sup> 20 <sup>°</sup>
LEDs/each optic Light colour Required components:	1 White NVSxE21A	30 40 50 50 50 50 50 50 50 50 50 5
LEDs/each optic Light colour Required components:	1 White NVSxE21A Asymmetric	
LEDs/each optic Light colour Required components:	1 White NVSxE21A Asymmetric 95 %	
LEDs/each optic Light colour Required components:	1 White NVSxE21A Asymmetric 95 % 0.6 cd/m	200 200 200 200 200 200 200 200
LEDs/each optic Light colour Required components:	1 White NVSxE21A Asymmetric 95 % 0.6 cd/lm 4	
LEDs/each optic Light colour Required components:	1 White NVSxE21A Asymmetric 95 % 0.6 cd/m	
LEDs/each optic Light colour Required components:	1 White NVSxE21A Asymmetric 95 % 0.6 cd/lm 4	
LEDs/each optic Light colour Required components:	1 White NVSxE21A Asymmetric 95 % 0.6 cd/lm 4	
LEDs/each optic Light colour Required components:	1 White NVSxE21A Asymmetric 95 % 0.6 cd/lm 4	



<b>Μ</b> ΝΙCΗΙΛ		90*
LED	NVSxE21A	× ×
FWHM / FWTM	Asymmetric	73° 7100 77°
Efficiency	95 %	$\lambda \chi \chi h \lambda \chi h$
Peak intensity	0.5 cd/lm	. 60°
LEDs/each optic	9	200
Light colour	9 White	$\times \times /   \times \times$
Required components:	Winte	400 GT*
Required components.		500
		X/T/X
		600
		30* <u>15</u> <sup>2</sup> <u>0</u> <sup>6</sup> <u>15</u> <sup>4</sup> <u>30</u> <sup>4</sup>
<b>ØNICHI</b> Λ		
LED	NVSxE21A	20°
FWHM / FWTM	Asymmetric	73*72*
Efficiency	94 %	- the
Peak intensity	0.6 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	4	200
Light colour	White	400 45*
Required components:		500
		600
		700
		30° 10° 30°
OSRAM		
Opto Semiconductors	Durie \$10	
Opto Semiconductors	Duris S10 Asymmetric	90 <sup>4</sup> 70 <sup>4</sup> 70 <sup>4</sup>
Opto Semiconductors LED FWHM / FWTM	Asymmetric	2 <sup>4</sup> 2 <sup>4</sup> 2 <sup>5</sup>
Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 %	
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.5 cd/lm	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components:	Asymmetric 94 % 0.5 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	Asymmetric 94 % 0.5 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 94 % 0.5 cd/lm 1 White Duris S8 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 94 % 0.5 cd/lm 1 White Duris S8 Asymmetric 95 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.5 cd/lm 1 White Duris S8 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1 White Duris S8 Asymmetric 95 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White Duris S8 Asymmetric 95 % 0.5 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1 White Duris S8 Asymmetric 95 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White Duris S8 Asymmetric 95 % 0.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White Duris S8 Asymmetric 95 % 0.5 cd/lm 1	



OSRAM		
Opto Semiconductors LED	OSCONIQ C 2424	90* 94*
FWHM / FWTM		750 200 750
Efficiency	Asymmetric 95 %	2 mp
Peak intensity	95 % 0.6 cd/lm	60* 60*
LEDs/each optic	4	
Light colour	4 White	400
Required components:	Wille	45* 65*
		60
		710
		30° 13 <sup>5</sup> 0° 15° 30°
OSRAM Opto Semiconductors		
LED	OSCONIQ P 7070	
FWHM / FWTM	Asymmetric	730 700 700
Efficiency	94 %	have my
Peak intensity	0.5 cd/lm	60° 60°.
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		
		200
		600
		30 <sup>4</sup> 13 <sup>5</sup> 0 <sup>6</sup> 15 <sup>4</sup>
OSRAM Opto Semiconductors		20*
LED		
	USLON Square CSSRM2/CSSRM3	
	OSLON Square CSSRM2/CSSRM3 Asymmetric	73% 200 78*.
FWHM / FWTM	Asymmetric 95 %	20 20 75
FWHM / FWTM Efficiency	Asymmetric	20
FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 %	20
FWHM / FWTM Efficiency	Asymmetric 95 % 0.5 cd/lm	20 <sup>4</sup> 200 70. 60 <sup>4</sup> 200 60. 40 <sup>4</sup> 60.
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.5 cd/lm 4	60" 60"
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.5 cd/lm 4	60" 60"
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.5 cd/lm 4	60" 60"
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.5 cd/lm 4	60" 60"
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.5 cd/lm 4 White	60" 60"
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.5 cd/lm 4 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.5 cd/lm 4 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED	Asymmetric 95 % 0.5 cd/lm 4 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	Asymmetric 95 % 0.5 cd/lm 4 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency	Asymmetric 95 % 0.5 cd/lm 4 White IH181B Asymmetric 95 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 0.5 cd/lm 4 White G LH181B Asymmetric	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.5 cd/lm 4 White C LH181B Asymmetric 95 % 0.6 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.5 cd/lm 4 White Uhite LH181B Asymmetric 95 % 0.6 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.5 cd/lm 4 White Uhite LH181B Asymmetric 95 % 0.6 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.5 cd/lm 4 White Uhite LH181B Asymmetric 95 % 0.6 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.5 cd/lm 4 White Uhite LH181B Asymmetric 95 % 0.6 cd/lm 1	



# PRODUCT DATASHEET CS15751\_STRADA-2X2MX-8-DWC

r		
SEOUL SEMICONDUCTOR		90° 90°
LED	Z8Y19	
FWHM / FWTM	Asymmetric	The state of the s
Efficiency	93 %	
Peak intensity	0.7 cd/lm	50° 60°.
LEDs/each optic	4	$X \neq T \setminus X$
Light colour	White	45° 660 65°
Required components:		
		20° 20° 20°
SEQUE		
SEOUL SEMICONDUCTOR	Z8Y50P	90* 90*
FWHM / FWTM		750 750
	Asymmetric	
Efficiency Peak intensity	94 % 0.6 cd/lm	60* 60*
LEDs/each optic	1	30
Light colour	' White	400
Required components:	Wille	45 500
Required components.		
		700 30* 33 <sup>5</sup> 860 15* 30*



#### **GENERAL INFORMATION:**

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

Due to use of high power COB's with this product, special attention to proper thermal design is highly recommended. LEDiL has no liability for direct, indirect or consecutive damages arising from the LEDiL products being used outside of the recommended temperature range.

#### **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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The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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