

## STRADA-IP-2X6-T4-B

Wide IESNA Type IV beam with forward-throw beam for wide area lighting like car parks

#### **TECHNICAL SPECIFICATIONS:**

Dimensions	71.4 x 173.0 mm
Height	10.6 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



## MATERIAL SPECIFICATIONS:

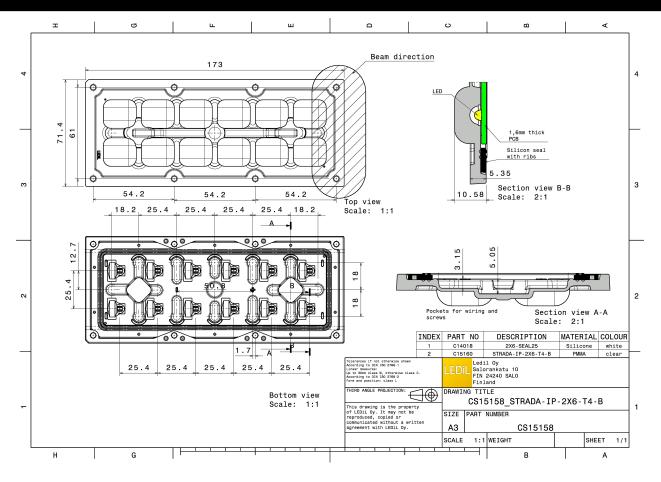
Component	Туре	Material	Colour	Finish
STRADA-IP-2X6-T4-B	Multi-lens	PMMA	clear	
2X6-SEAL25	Seal	Silicone	white	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15158_STRADA-IP-2X6-T4-B	Multi-lens	120	40	40	7.8
» Box size: 476 x 273 x 247 mm					

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# PRODUCT DATASHEET CS15158\_STRADA-IP-2X6-T4-B



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



bridgelux.		50° 50°
LED	Bridgelux SMD 5050	
FWHM / FWTM	Asymmetric	73°
Efficiency	94 %	270
Peak intensity	0.5 cd/lm	50° 50°.
LEDs/each optic	1	30
Light colour	White	400 CT
Required compone		
Required compone		
		000
		700
		30° 45° 0° 15° 30°
		90* 90 <sup>+</sup>
LED	QUICK FLUX 2x6 LED XG xxx G7+	700
FWHM / FWTM	Asymmetric	200
Efficiency	94 %	504 300 504
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	457 500 45*
Required compone	nts:	600
		710
		80
		30° 15 <sup>5</sup> 900 50° 50°
		TY Y Y
		90° 90°
LED	QUICK FLUX 2x6 LED XT xxx G5	5°
	QUICK FLUX 2x6 LED XT xxx G5 Asymmetric	9/* /3/ /30/ /20/
LED		99 <sup>4</sup> 75 70 75 70 75 75
LED FWHM / FWTM	Asymmetric	50 <sup>1</sup> 75 50 <sup>1</sup> 60 <sup>1</sup> 60 <sup>1</sup>
LED FWHM / FWTM Efficiency	Asymmetric 92 %	51 <sup>4</sup> 50 72 61 <sup>4</sup> 60
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 1 cd/lm	50 <sup>4</sup> 50 <sup>4</sup> 50 <sup>4</sup> 50 <sup>4</sup> 60 6 <sup>4</sup> 6 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1 cd/lm 1 White	59 <sup>1</sup> 72 <sup>1</sup> 61 <sup>1</sup> 61 <sup>1</sup> 60 60 60 6 <sup>1</sup> 6 <sup>1</sup> 6 <sup>1</sup> 6 <sup>1</sup> 6 <sup>1</sup> 6 <sup>1</sup> 6 <sup>1</sup> 6 <sup>1</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1 cd/lm 1 White	51 <sup>4</sup> 50 20 61 <sup>4</sup> 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1 cd/lm 1 White	51 <sup>4</sup> 20 51 <sup>4</sup> 40 60 67 69 67 69 69
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 92 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 92 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 92 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 92 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 92 % 1 cd/lm 1 White nts: XP-G2 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED ED FWHM / FWTM Efficiency	Asymmetric 92 % 1 cd/lm 1 White nts: XP-G2 Asymmetric 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 1 cd/lm 1 White nts: XP-G2 Asymmetric 92 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1 cd/lm 1 White nts: XP-G2 Asymmetric 92 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1 cd/lm 1 White nts: XP-G2 Asymmetric 92 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1 cd/lm 1 White nts: XP-G2 Asymmetric 92 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1 cd/lm 1 White nts: XP-G2 Asymmetric 92 % 1 cd/lm 1 White	



		90 <sup>4</sup>
LED	- XP-L HD	
FWHM / FWTM	Asymmetric	750 700 781
Efficiency	90 %	20
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	400 47*
Required componer		500
		700
		30° 15 <sup>2</sup> 0° 15° 30°
		90* 90*
LED	XP-L2	
FWHM / FWTM	Asymmetric	75'
Efficiency	94 %	200
Peak intensity	0.6 cd/lm	50°
LEDs/each optic	1	
Light colour	White	6
Required componer	nts:	50
		700
		30° 30°
		90* 90*
LED	XT-E	30°
LED FWHM / FWTM	XT-E Asymmetric	31- 20- 20- 20- 20- 20- 20-
LED FWHM / FWTM Efficiency	XT-E Asymmetric 93 %	31- 70- 73'
LED FWHM / FWTM Efficiency Peak intensity	XT-E Asymmetric 93 % 0.9 cd/lm	35-200 75-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XT-E Asymmetric 93 % 0.9 cd/m 1	29 20 79. 01 20 60.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 93 % 0.9 cd/m 1 White	20 75. 0 <sup>1</sup> 20 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XT-E Asymmetric 93 % 0.9 cd/m 1 White	20 75. 0 <sup>1</sup> 20 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 93 % 0.9 cd/m 1 White	20 75. 0 <sup>1</sup> 20 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 93 % 0.9 cd/m 1 White	79- 20 01- 20 02- 00- 00-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 93 % 0.9 cd/m 1 White	79- 20 01- 20 02- 00- 00-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XT-E Asymmetric 93 % 0.9 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XT-E Asymmetric 93 % 0.9 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XT-E Asymmetric 93 % 0.9 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XT-E Asymmetric 93 % 0.9 cd/lm 1 White hts: XT-E HE Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XT-E Asymmetric 93 % 0.9 cd/lm 1 White hts: XT-E HE Asymmetric 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XT-E Asymmetric 93 % 0.9 cd/m 1 White hts: XT-E HE Asymmetric 92 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XT-E Asymmetric 93 % 0.9 cd/lm 1 White hts: XT-E HE Asymmetric 92 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 93 % 0.9 cd/lm 1 White hts: XT-E HE Asymmetric 92 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 93 % 0.9 cd/lm 1 White hts: XT-E HE Asymmetric 92 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E Asymmetric 93 % 0.9 cd/lm 1 White hts: XT-E HE Asymmetric 92 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XT-E Asymmetric 93 % 0.9 cd/lm 1 White hts: XT-E HE Asymmetric 92 % 1 cd/lm 1 White	



<i>(</i> )		
UMIL	EDS	90* 90
LED	LUXEON 5050 Round LES	400
FWHM / FWTM	Asymmetric	779 200
Efficiency	94 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45. <u>200</u> 42
Required compone	nts:	
		700
		30° 35 <sup>5</sup> 399 10° 300
	FDS	
		90* 90
	LUXEON T	75
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	1 cd/lm	+++++++++++++++++++++++++++++++++++++++
LEDs/each optic Light colour	1 White	
Required compone		45* 000 45*
Required compone	nts.	
		300
		30° 1000 30° 30°
COMIL	EDS	
		901
LED	LUXEON V	31 31 31
LED FWHM / FWTM	LUXEON V Asymmetric	94 <sup>*</sup> 71 <sup>*</sup> 70
LED FWHM / FWTM Efficiency	LUXEON V Asymmetric 88 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON V Asymmetric 88 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON V Asymmetric 88 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White	9x* 92 71 72 80 <sup>4</sup> 720 60 <sup>4</sup> 720 720 720 720 720 720 720 720
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White	5° 50 6° 50 6° 50 6° 60 6° 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White	91 <sup>4</sup> 90 10 <sup>4</sup> 30 0 <sup>4</sup> 30 0 <sup>4</sup> 30 0 <sup>4</sup> 0 0 <sup>4</sup> 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Weak intensity	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White Ints: EDS LUXEON V2 Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Multiple Equired compone Efficiency Peak intensity LEDs/each optic	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White Ints: EDS LUXEON V2 Asymmetric 93 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White Ints: EDS LUXEON V2 Asymmetric 93 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Weak intensity LEDs/each optic	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White Ints: EDS LUXEON V2 Asymmetric 93 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White Ints: EDS LUXEON V2 Asymmetric 93 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON V Asymmetric 88 % 0.6 cd/lm 1 White Ints: EDS LUXEON V2 Asymmetric 93 % 0.9 cd/lm 1 White	



MST Your solut	tions	90* 90*
LED	RecLED 146x45mm 2900lm 730 STRADA-IP-2x6 G1	
FWHM / FWTM	Asymmetric	73* 200 78'
Efficiency	93 %	
Peak intensity	1 cd/lm	. 50* 60*
LEDs/each optic	1	
Light colour	White	45* 65
Required compone		
		800
		30° 3000 30° 30° 30°
<b>ØNICHI</b>	k i de la constante de la const	90°
LED	NVSW219F	100
FWHM / FWTM	Asymmetric	759 200 75"
Efficiency	93 %	
Peak intensity	0.8 cd/lm	60 <sup>4</sup> 300 807
LEDs/each optic	1	
Light colour	White	45°
Required compone	ents:	50
		710
		800
		50° 500 30°
		30 <sup>°</sup> 15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>°</sup> 30 <sup>°</sup>
<b>ØNICHI</b>	N Contraction of the second seco	B <sup>1</sup>
	NVSW319B	91° 99°
		201 - 201 201 - 201 201 - 201
LED	NVSW319B	20 20 20 20
LED FWHM / FWTM	NVSW319B Asymmetric	
LED FWHM / FWTM Efficiency	NVSW319B Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity	NVSW319B Asymmetric 93 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White	60 <sup>4</sup> 30 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White	60 <sup>4</sup> 30 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White	60 <sup>4</sup> 30 60 <sup>4</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White ents:	60 <sup>-</sup> 00- 00-
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 93 % 0.7 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 % 0.7 cd/lm 1 White	



<b>ΜΝΙCΗΙΛ</b>		90* 90*
LED	NVSW519A	
FWHM / FWTM	Asymmetric	730 000 730
Efficiency	92 %	200
Peak intensity	0.7 cd/lm	50* 50* 50*
LEDs/each optic	1	× × ×
Light colour	White	45'
Required componer		20
		00
		700
		X
		30° 15° 30°
<b>MNICHIA</b>		90° 90°
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	73.0 73.0
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60° (60°
LEDs/each optic	1	$ X /T \setminus X$
Light colour	White	67° 60° 67°
Required componer	nts:	
		00
		30*
000444		130° <u>15</u> <u>3000</u> <u>15</u> , 30°
OSRAM Opto Semiconductors		THAT FALL
epto definiconductors		90* 90*
LED	Duris S8	90**94*
LED	Duris S8 Asymmetric	120
LED FWHM / FWTM		
	Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 93 % 0.5 cd/lm 1 White	67 990 970 900 970 970 970 970 970 970 970 970 970
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 93 % 0.5 cd/lm 1 White hts:	67 000 00 000 00 000 00 000 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 93 % 0.5 cd/lm 1 White hts: OSLON Square CSSRM2/CSSRM3	67 000 00 000 00 000 00 000 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer OSERAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 93 % 0.5 cd/lm 1 White hts: OSLON Square CSSRM2/CSSRM3 Asymmetric	67 500 F
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 93 % 0.5 cd/lm 1 White hts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 %	56 56 56 56 56 56 56 56 56 56 56 56 56 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 0.5 cd/lm 1 White hts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1 cd/lm	56 56 56 56 56 56 56 56 56 56 56 56 56 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.5 cd/lm 1 White hts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1 cd/lm 1	56 56 56 56 56 56 56 56 56 56 56 56 56 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1 White hts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1 cd/lm 1 White	56 56 56 56 56 56 56 56 56 56 56 56 56 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1 White hts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1 cd/lm 1 White	56 56 56 56 56 56 56 56 56 56 56 56 56 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 93 % 0.5 cd/lm 1 White hts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1 cd/lm 1 White	67 500 F
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.5 cd/lm 1 White hts: OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1 cd/lm 1 White	56 56 56 56 56 56 56 56 56 56 56 56 56 5



PHILIF	25	50° D
LED	Fortimo FastFlex LED 2x6 DP G4	
FWHM / FWTM	Asymmetric	73%
Efficiency	92 %	
Peak intensity	1 cd/lm	.50 <sup>4</sup> 400 6
LEDs/each optic	1	$\pm \times / / \pm \times \times$
Light colour	White	45" 600
Required compone	ints:	
		800
		$\times$ / $\times$
		1000
		30° 15 <sup>5</sup> 0 <sup>6</sup> 15° 3
PHILIF	<b>PS</b>	90 <sup>+</sup>
LED	Fortimo FastFlex LED 2x6 DP G5	
FWHM / FWTM	Asymmetric	200
Efficiency	93 %	
Peak intensity	0.9 cd/lm	400
LEDs/each optic	1	
Light colour	White	45* 600 9
Required compone	nts:	$\times$
		800
		$\times$
		30° 1000 30° 31° 3
รлмรเ	INC	
<u>2111121</u>	JNG	90*
LED	HiLOM RH12 (LH351C)	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	50%
Peak intensity	94 % 0.9 cd/lm	50°
Peak intensity LEDs/each optic	94 % 0.9 cd/lm 1	507
Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White	60° 60° 6
Peak intensity LEDs/each optic	94 % 0.9 cd/lm 1 White	50° 50° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°
Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White	200 200 400 400 600
Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White	6) <sup>1</sup> 6) <sup>1</sup> 6) <sup>2</sup> 6) <sup>2</sup> 70 <sup>2</sup>
Peak intensity LEDs/each optic Light colour Required compone	94 % 0.9 cd/lm 1 White ints:	
Peak intensity LEDs/each optic Light colour Required compone	94 % 0.9 cd/lm 1 White Ints:	
Peak intensity LEDs/each optic Light colour Required compone	94 % 0.9 cd/lm 1 White ints: UNG HiLOM RM12 ZP (LH502C)	
Peak intensity LEDs/each optic Light colour Required compone	94 % 0.9 cd/lm 1 White INTS: UNG HiLOM RM12 ZP (LH502C) Asymmetric	50- 73-
Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	94 % 0.9 cd/lm 1 White ints:	
Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	94 % 0.9 cd/lm 1 White ints:	90- 70-
Peak intensity LEDs/each optic Light colour Required compone <b>SAMSI</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.9 cd/lm 1 White ints:	90° 
Peak intensity LEDs/each optic Light colour Required compone <b>SAMSI</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White INTS: UNC HiLOM RM12 ZP (LH502C) Asymmetric 93 % 0.5 cd/lm 1 White	50° 70° 60° 500
Peak intensity LEDs/each optic Light colour Required compone <b>SAMSI</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.9 cd/lm 1 White INTS: UNC HiLOM RM12 ZP (LH502C) Asymmetric 93 % 0.5 cd/lm 1 White	50°
Peak intensity LEDs/each optic Light colour Required compone <b>SAMSI</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White INTS: UNC HiLOM RM12 ZP (LH502C) Asymmetric 93 % 0.5 cd/lm 1 White	50°
Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White INTS: UNC HiLOM RM12 ZP (LH502C) Asymmetric 93 % 0.5 cd/lm 1 White	



SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	ROY-S26XPL2 (XP-L2) Asymmetric 91 % 0.6 cd/lm 1 White	9,4 9,4 9,4 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7 0,7
SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XLE-S22C4XTEHE (XT-E HE) Asymmetric 92 % 1 cd/lm 1 White	20 20 20 50 60 70 70 70 50 50 50 50 50 50 50 50 50 5
SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XLE-S26XHP35 (XHP35 HD) Asymmetric 90 % 0.6 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	SMJQ-D36W12Mx Asymmetric 93 % 0.8 cd/lm 1 White tts:	



seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	SMJQ-D36W12Px Asymmetric 94 % 0.8 cd/lm 1	89 - 80 - 30 - 30 -
Light colour	White	200
Required compone		<b>10</b>
SEOUL		1 TAY ATTI
	75140	90* 90*
	Z5M3	750 200 750
FWHM / FWTM	Asymmetric	20
Efficiency	94 %	504 300 504
Peak intensity LEDs/each optic	0.8 cd/lm 1	400
LEDS/each optic	ı White	
Required compone		- <del>6</del> 7
Required compone	its.	60
		700
		00
		30° 15 <sup>5</sup> % 15° 30°
SEOUL		
SEOUL SEMICONDUCTOR		×
SEOUL SEMICONDUCTOR	Z8Y22	
seoul semiconductor LED FWHM / FWTM	Asymmetric	8 <sup>1</sup> 2 <sup>1</sup> 20
sedul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 93 %	97 97 93 90 97 97 90 97 97 97 97 97 97 97 97 97 97 97 97 97
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 0.8 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.8 cd/lm 1	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.8 cd/lm 1 White	
stout stemiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 0.8 cd/lm 1 White	
seous semiconbucton LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 0.8 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 0.8 cd/lm 1 White hts:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED	Asymmetric 93 % 0.8 cd/lm 1 White hts: Z8Y22P	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM	Asymmetric 93 % 0.8 cd/lm 1 White hts: Z8Y22P Asymmetric	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency	Asymmetric 93 % 0.8 cd/lm 1 White hts: Z8Y22P 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 93 % 0.8 cd/lm 1 White hts: Z8Y22P Asymmetric 94 % 0.8 cd/lm	
seous semiconbuctore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconbuctore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.8 cd/lm 1 White hts: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1	
stout stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stout stemconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.8 cd/lm 1 White hts: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.8 cd/lm 1 White hts: Z8Y22P Asymmetric 94 % 0.8 cd/lm 1 White	

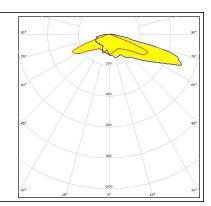


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FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:

RLE 2x6 3000lm HP EXC2 OTD Asymmetric 93 % 1 cd/lm 1 White





LED	J Series 5050 Round LES	90* 90*
		730 740 750
FWHM / FWTM	Asymmetric	200
Efficiency	89 %	50*
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	400
Light colour	White	45* 500 45*
Required components:		600
		10
		30* 200
		15 <sup>2</sup> 0 <sup>2</sup> 13 <sup>2</sup>
		90* 90*
LED	J Series 5050 Square LES	
FWHM / FWTM	Asymmetric	The The
Efficiency	89 %	200
Peak intensity	0.5 cd/lm	.60 <sup>4</sup> 300 60 <sup>4</sup>
LEDs/each optic	1	× × 400
Light colour	White	45'
Required components:		X X X
		500
		700
		30* <u>50</u> 15 <sup>5</sup> 0 <sup>*</sup> 15 <sup>*</sup> 30 <sup>*</sup>
LED	XHP35 HD	90*
FWHM / FWTM		10 - Company 10
	Asymmetric 90 %	200
Efficiency		60° 60°
Peak intensity	0.6 cd/lm	30
LEDs/each optic		400
Light colour	White	-6°*
Required components:		
		6%0
		700
		710 30° 15' 88 15' 30'
		700 30° 10° 000 10° 30°
		•••
LED	XHP35 HD	20
LED FWHM / FWTM	Asymmetric	210
LED FWHM / FWTM Efficiency	Asymmetric 73 %	20
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 73 % 0.3 cd/lm	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 73 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 73 % 0.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 73 % 0.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 73 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 73 % 0.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 73 % 0.3 cd/lm 1 White	



CREESLED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP35 HI Asymmetric 93 % 0.8 cd/lm 1 White	5° 60 60 60 60 60 60 60 60 60 60 60 60 60 6
		23° 15' 0° 15' 23°
CREES LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XM-L2 Asymmetric 92 % 0.7 cd/lm 1 White	
CREEE>LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G2 HE Asymmetric 86 % 0.6 cd/lm 1 White	
CREECIED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XP-G3 Asymmetric 87 % 0.8 cd/lm 1 White	



CREE LED	XP-L HI Asymmetric 93 % 0.9 cd/lm 1 White	
<b>Ø</b> NICHIΛ		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NCSxx19B Asymmetric 92 % 1 cd/lm 1 White	90 <sup>4</sup> 97 72 <sup>4</sup> 90 60 <sup>4</sup> 60 67 67 80 67 80 67 80 80 87 87 80 87 87 80 87 87 87 87 87 87 87 87 87 87 87 87 87
		30* <u>15</u> 0 <sup>0</sup> 15* 30*
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NV4WB35AM Asymmetric 77 % 0.7 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSW219D Asymmetric % 1.7 cd/lm 1 White	



<b>Μ</b> ΝΙCΗΙΛ		THAT KAT
LED	NVSxE21A	90* 90
		75° 200 75
FWHM / FWTM	Asymmetric	
Efficiency	88 %	.604 60
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	00
Light colour	White	45* 800 45
Required components:		
		1000
		1200
		30* 30
Manguna		
<b>MNICHIA</b>		90* 90
LED	NVSxE21A	
FWHM / FWTM	Asymmetric	75° 200 75
Efficiency	87 %	400
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	200
Light colour	White	6° 6
Required components:		800
		1000
		XITIX
		1200
		30*
		15° 0° 15°
OSRAM		135 <sup>3</sup> 0 <sup>4</sup> 137
		25 <sup>5</sup> 0 <sup>4</sup> 25 <sup>4</sup>
LED	PrevaLED Brick HP IP 2x6	25 <sup>2</sup> 0 <sup>4</sup> 25 <sup>4</sup>
LED FWHM / FWTM	Asymmetric	25° 0° 12° 99° 99° 99° 99° 99° 99° 99° 99° 99° 9
LED FWHM / FWTM Efficiency	Asymmetric 88 %	25 <sup>2</sup> 0 <sup>2</sup> 12 <sup>2</sup>
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 88 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 88 % 0.7 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 88 % 0.7 cd/lm	23 <sup>2</sup> 0 <sup>2</sup> 13 <sup>2</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 88 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 88 % 0.7 cd/lm 1	23° 0° 33° 9° 6° 6° 6° 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 88 % 0.7 cd/lm 1	23 23 24 25 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 88 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 88 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 88 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric	23° 0° 13° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 88 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 88 % 0.6 cd/lm	10 <sup>4</sup> 17 <sup>4</sup> 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 88 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 88 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 88 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 88 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 88 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 88 % 0.6 cd/lm 1	
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 88 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 88 % 0.6 cd/lm 1	



OSRAM Opto Semiconductors		
LED	OSCONIQ P 3737 (3W version)	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
FWHM / FWTM	Asymmetric	730 700 70
Efficiency	88 %	200
	00 % 0.6 cd/lm	50°
Peak intensity		
LEDs/each optic	1	
Light colour	White	-6°
Required components:		600
		No t
		30 <sup>2</sup> 35 <sup>5</sup> 300 30 <sup>4</sup> 30 <sup>4</sup>
OSRAM		
Opto Semiconductors		90* 90*
LED	OSLON Square PC	73°
FWHM / FWTM	Asymmetric	
Efficiency	93 %	.50° 600 60°.
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 000 45°
Required components:		
		1000
		1200
		30* 30*
		157 18%
PHILIPS		90° 99°
LED	Fortimo FastFlex LED 2x6 DPX G4	
FWHM / FWTM	Asymmetric	200
Efficiency	81 %	
Peak intensity	0.7 cd/lm	50 <sup>4</sup>
LEDs/each optic	1	400
Light colour	White	45' 500 45'
Required components:		600
		no
		30* <u>15</u> <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup> 30*
SAMSUN	IG	THA FEED
LED	LH181B	90° 90*
ED FWHM / FWTM		73° 200 70°
	Asymmetric 89 %	
Efficiency		60 60
Peak intensity LEDs/each optic	0.9 cd/lm	
	1 Mining	
Light colour	White	45°
Required components:		$\times$
		1000
1		
		1259 39°



SAMSUN	IG	90* 90*
LED	LH231B	
FWHM / FWTM	Asymmetric	75° 200 7
Efficiency	89 %	
Peak intensity	0.8 cd/lm	50% 400 52
LEDs/each optic	1	
Light colour	White	45* 640
Required components:		800
		$\times$ $/$ $\top$ $/$ $\times$
		1000
	10	30 11 <sup>0</sup> 1800 10° 30
SAMSUN	10	90* 90'
LED	LH351B	and
FWHM / FWTM	Asymmetric	75 200 701
Efficiency	88 %	50*
Peak intensity	0.7 cd/lm	400
LEDs/each optic	1	
Light colour	White	45* 560 45
Required components:		$\times$
		000
		$\times$
		30° 1000 30° 30°
SAMSUN	IG	THA AFT
		90* 90*
	LH351D	750 July 750
FWHM / FWTM	Asymmetric 86 %	200
Efficiency	60 % 0.5 cd/lm	60* 60
Peak intensity LEDs/each optic	1	
Light colour	White	451 400 45
Required components:	white	
rtoquirou componente.		
		700
		30* <u>15</u> * <u>665</u> 15* 30
	SEOUL DC 5050 6V	
FWHM / FWTM	Asymmetric	75%
Efficiency	89 %	200
Peak intensity	0.5 cd/lm	60° 66
	1	$X \times I \longrightarrow X$
LEDs/each optic		
	White	45° 400 4
LEDs/each optic Light colour Required components:	White	
	White	
Light colour	White	
Light colour	White	



SEOUL		
SEOUL SEMICONDUCTOR	Z5M1/Z5M2	90* 90*
EED FWHM / FWTM		730 200 750
	Asymmetric 85 %	
Efficiency	os % 1.1 cd/lm	50° 60°
Peak intensity LEDs/each optic	1	
Light colour	ı White	
Required components:	white	45+ 900 45+
Required components.		
		1200
		30° 15° 30°
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z5M4	- ton
FWHM / FWTM	Asymmetric	200
Efficiency	89 %	50 <sup>4</sup>
Peak intensity	0.7 cd/lm	400
LEDs/each optic	1	
Light colour	White	45+ 610 45+
Required components:		$\times$
		200
		1000 - 1000 - 10° - 30°
SEOUL		29 T
SEOUL		500
LED	Z8Y22T	
FWHM / FWTM	Asymmetric	
Efficiency	88 %	
Peak intensity	0.8 cd/lm	260
LEDs/each optic	1	
Light colour	White	200
Required components:		200
		and a state of the
		-115.0° -112.5° -49.4° -45.5° -45.4° -22.5° 6.6° 22.5° 46.4° 47.4° 112.6° 115.0°



#### **GENERAL INFORMATION:**

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

#### MATERIALS:

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

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