

# PRODUCT DATASHEET CS15418\_STRADA-IP-2X6-SCL

## STRADA-IP-2X6-SCL

Type II/III (long) beam for very wide pole to pole distances. Ideal for pedestrian walkways and residential road lighting. (EN13201 P-classes)

#### **SPECIFICATION:**

Dimensions	173.0 x 71.4 mm
Height	9.6 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



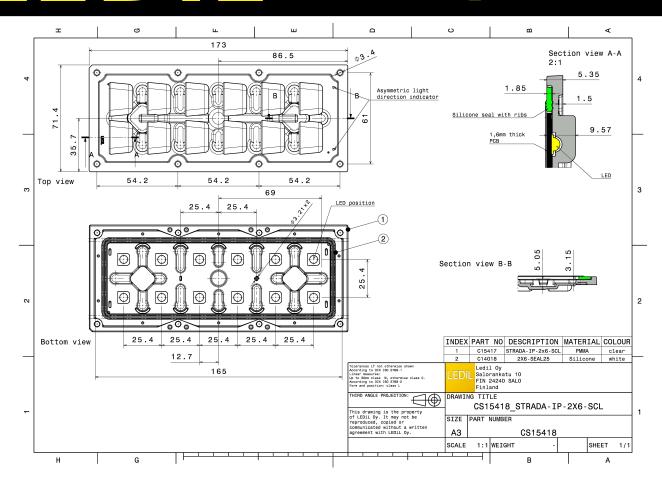
#### **MATERIALS:**

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

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15418_STRADA-IP-2X6-SCL	Multi-lens	120	40	40	7.9
» Box size: 476 x 273 x 247 mm					

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



bridgelux.		art art
LED	Bridgelux SMD 5050	
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required component		500
		600
		710
		30° <u>45</u> 0° <u>15°</u> 30°
		90* 90*
	QUICK FLUX 2x6 LED XG xxx G7+	~ ~ ~
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60* 60*.
LEDs/each optic	1	× / +40
Light colour	White	
Required component		60
		200
		30* 1000 30* 30*
LEDS		90* 90*
LED	XM-L	75 78
FWHM / FWTM	Asymmetric	the second secon
Efficiency	%	60*
LEDs/each optic	70 1	400
Light colour	White	5° 5°
Required component		60°
	ιυ.	$\times$
		800
		30° 15 <sup>5</sup> 1890 15° 30°
CREE ≑		
LED	XP-G2	90* 90*
FWHM / FWTM	Asymmetric	73
Efficiency	94 %	
Peak intensity	0.7 cd/lm	50° 400 55.*
LEDs/each optic	1	
Light colour	White	45" 600 45"
Required component		
	no. — — — — — — — — — — — — — — — — — — —	80
		X   X
		1000
		30° 15 <sup>4</sup> 0° 15° 30°



	VD CO	90° 90°
LED	XP-G3	75*
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60°
Peak intensity	0.7 cd/lm	400
LEDs/each optic	1	
Light colour	White	45° 600 95*
Required compone	nts:	
		800
		$\times$ / $\top$ / $\times$
		30° 1000 30° 30°
		004
LED	XP-L HD	
		754 781
FWHM / FWTM	Asymmetric	00
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required compone	nts:	
		800
		30°
		45° 0° 15°
		90° 90°
CREE ÷ LEDs	XP-L2	8.
	XP-L2 Asymmetric	g- 20
LED		9)* 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency	Asymmetric	9° 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 %	9° 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1 White	90° 100 100 100 100 100 100 100 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.7 cd/lm 1 White	9° 100 100 100 100 100 100 100 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1 White	9° 100 100 100 100 100 100 100 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1 White	5° 20 0° 0° 0° 0° 0° 0° 0° 0° 0° 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREECS LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 0.6 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 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 0.6 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 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Eccess LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 0.6 cd/lm 1 White	



LED	XT-E HE	10°
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.7 cd/lm	. 60 <sup>4</sup>
LEDs/each optic	1	× / +40
Light colour	White	
Required compone		600 00
		000
		30° 15° 30° 30°
UMIL	EDS	90* 90*
LED	LUXEON 5050 Round LES	4
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.6 cd/lm	, edf
LEDs/each optic	1	
Light colour	White	45°
Required compone	nts:	X X X
		700
		30*         300         30*           15 <sup>2</sup> 0 <sup>6</sup> 15*
M LUMIL	EDS	90° 90°
LED	LUXEON T	9
FWHM / FWTM	Asymmetric	250 200 75
Efficiency	94 %	
Peak intensity	0.8 cd/lm	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	45" 600 45"
Required compone	nts:	$\times$
		80
		$\times$
		30*
	EDC	125, 0, 122,
M LUMIL		90* 90*
LED	LUXEON V	200
FWHM / FWTM	Asymmetric	
Efficiency	92 %	00 <sup>5</sup> 300 2011
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	451 500 654
Required compone	nts:	X
		700
		80
		30* 500 30*
1		13° 0° 15°



	ED.C	
UMIL	EDS	90* 90*
LED	LUXEON V2	
FWHM / FWTM	Asymmetric	25*
Efficiency	94 %	50° 60
Peak intensity	0.7 cd/lm	400
LEDs/each optic	1	
Light colour	White	65* 000 45
Required compone	nts:	$\times$
		000
		30° 15° 30° 30°
MST Your solut	ions	
		90* 90
	RecLED 146x45mm 2900lm 730 2x6 IP G1	
FWHM / FWTM	Asymmetric 96 %	Roo Contraction
Efficiency Peak intensity	90 % 0.7 cd/lm	. 60° 60
LEDs/each optic	1	
Light colour	u White	000
Required compone		451 451
Required compone	113.	80
		X   X
		1000
		30° 15° 30°
		90 <sup>4</sup>
LED	NVSW219D	
FWHM / FWTM	Asymmetric	200 200
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60 <sup>4</sup> 60
LEDs/each optic	1	
Light colour	White	45* 610 45
Required compone	nts:	$\times$ / $\times$
		$\times$
		30° 300
~~~~~~		13 <sup>3</sup> 0 <sup>6</sup> 13 <sup>6</sup>
<b>Ø</b> NICHI∕		90* 90
LED	NVSW219F	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.8 cd/lm	400
LEDs/each optic	1	$X \times I \times X$
Light colour	White	65' 80 65
Required compone	nts:	$\times$
		200
		1000
		30°



$\sim$		
<b>Μ</b> ΝΙCΗΙΛ		90° 90°
LED	NVSW319B	3
FWHM / FWTM	Asymmetric	730 200 270
Efficiency	94 %	
Peak intensity	0.8 cd/lm	60 <sup>4</sup> 400 604
LEDs/each optic	1	
Light colour	White	45+ 600 45+
Required componen	ts:	$\times$
		00
		1000
		15 <sup>5</sup> 0 <sup>6</sup> 15 <sup>5</sup>
<b>Μ</b> ΝΙCΗΙΛ		90* 90*
LED	NVSW3x9A	9
	Asymmetric	75
	94 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 500 45*
Required componen	ts:	$\times$
		800
		X   X
		1000
~		 15 <sup>3</sup> 0 <sup>6</sup> 15 <sup>6</sup>
<b>ΜΝΙCΗΙΛ</b>		
LED	NVSW519A	
FWHM / FWTM	Asymmetric	
Efficiency	95 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required component	ts:	
<b>Μ</b> ΝΙCΗΙΛ		
		90° 90°
	NVSxx19B/NVSxx19C	730
	Asymmetric	
	96 %	504 604
	0.8 cd/lm	
LEDs/each optic	1	
-	White	45° 000 6°
Required componen	15:	
		1000
		30° 15° 30°



OSRAM		
Opto Semiconductors		90°
LED	Duris S8	9
FWHM / FWTM	Asymmetric	100 75*
Efficiency	95 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	30
Light colour	White	45* 400 45*
Required compone		
		640
		710
		30° 15° 30°
PHILIF	S	90°
LED	Fortimo FastFlex LED 2x6 DP G4	1
FWHM / FWTM	Asymmetric	754 000 75*
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60* <u>60*</u>
LEDs/each optic	1	
Light colour	White	45* 6/0 45*
Required compone	ts:	$\times$
		800
		1000
		30° 15° 0° 15° 30°
PHILIF	S	90° 90°
LED	Fortimo FastFlex LED 2x6 DP G5	1
FWHM / FWTM	Asymmetric	730 200 74°
Efficiency	96 %	
Peak intensity	0.8 cd/lm	.60° 60°.
LEDs/each optic	1	
Light colour	White	45° 600 45*
Required compone	its:	
1		
		00
		00
		00
	2S	90° 000 1000 20° 10° 10° 00°
	S	94° 000 1000 1000 1000 1000 1000 1000 1000
PHILIP		9° 30° 30° 30° 30° 30° 30° 30° 30° 30° 30
PHILIF LED FWHM / FWTM	S Fortimo FastFlex LED 2x6 DP HE Asymmetric	
<b>PHILIF</b> LED FWHM / FWTM Efficiency	S Fortimo FastFlex LED 2x6 DP HE Asymmetric 96 %	
PHILIF LED FWHM / FWTM Efficiency Peak intensity	S Fortimo FastFlex LED 2x6 DP HE Asymmetric	
<b>PHILIF</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	S Fortimo FastFlex LED 2x6 DP HE Asymmetric 96 % 0.6 cd/lm	
<b>PHILLIP</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	S Fortimo FastFlex LED 2x6 DP HE Asymmetric 96 % 0.6 cd/lm 1 White	
<b>PHILIF</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	S Fortimo FastFlex LED 2x6 DP HE Asymmetric 96 % 0.6 cd/lm 1 White	
<b>PHILLIP</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	S Fortimo FastFlex LED 2x6 DP HE Asymmetric 96 % 0.6 cd/lm 1 White	
<b>PHILLIP</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	S Fortimo FastFlex LED 2x6 DP HE Asymmetric 96 % 0.6 cd/lm 1 White	



PHILIP	<b>S</b>	50°
LED	Fortimo FastFlex LED 2x6 DPX G4	9
FWHM / FWTM	Asymmetric	13°
Efficiency	94 %	
Peak intensity	0.7 cd/lm	40
LEDs/each optic	1	
Light colour	White	45° 660 95'
Required compone	ints:	$\times$
		000
		30° 1000 30° 30°
SVWSI	JNG	94* A 98
LED	HiLOM RH12 (LH351C)	~ ~ ~ ~
FWHM / FWTM	Asymmetric	750 200 750
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60* 60
LEDs/each optic	1	
Light colour	White	45* 600 65*
Required compone	ents:	$\times$
		1000 30° 30°
SAMSI	ING	THAY KHEI
SAMSU		90° 90°
LED	HiLOM RM12 ZP (LH502C)	30 30 50 84 90
LED FWHM / FWTM	HiLOM RM12 ZP (LH502C) Asymmetric	7.00
LED FWHM / FWTM Efficiency	HiLOM RM12 ZP (LH502C) Asymmetric 96 %	7.00
LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM12 ZP (LH502C) Asymmetric	7.00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm	7.00
LED FWHM / FWTM	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White	7.00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White	7.00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White	7.00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White	50 50 50 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White ents:	20 61 61 60 60 60 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White ents:	30 Ar 50 50 50 50 50 60 60 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White ents:	30 Ar 50 50 50 50 50 60 60 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White ents:	30 Ar 50 50 50 50 50 60 60 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White ents:	50 50 50 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALVS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM12 ZP (LH502C) Asymmetric 96 % 0.6 cd/lm 1 White ents:	



SCIO	LUX	
LED		90* 90*
FWHM / FWTM	ROY-S26XPL2 (XP-L2)	75 100
	Asymmetric	the second secon
Efficiency	94 %	60* 300 60*
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required componer	ts:	800
		710
		X
		30° 500 30°
		15 <sup>3</sup> 0 <sup>6</sup> 19 <sup>4</sup>
SCIO	LUX	90* 90*
LED	XLE-S22C4XTEHE (XT-E HE)	9
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.7 cd/lm	.60%
LEDs/each optic	1	
Light colour	White	
Required componer		
Required componer	lio.	
		800
		30° 1000 30° 30°
SCIO		
SCIO		PT PT
LED	XLE-S26XHP35 (XHP35 HD)	94° 94°
LED FWHM / FWTM	XLE-S26XHP35 (XHP35 HD) Asymmetric	94* 94* 92* 000000000000000000000000000000000000
LED FWHM / FWTM Efficiency	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White	40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White	40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White	40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White	10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White its: 2x6 5050 module - SMJD-3625012F-XX	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer secoul semiconductor LED FWHM / FWTM	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White its: 2x6 5050 module - SMJD-3625012F-XX Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White Its: 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White tts: 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer storus semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White tts: 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White tts: 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer storus semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White tts: 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer storus semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XLE-S26XHP35 (XHP35 HD) Asymmetric 94 % 0.7 cd/lm 1 White tts: 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.6 cd/lm 1 White	



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SEOUL			
SEOUL SEMICONDUCTOR			90* 90*
LED	SMJQ-D36W12Mx	and the second se	25
FWHM / FWTM	Asymmetric		
Efficiency	93 %		
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		
Light colour	White		45* 45*
Required componer	nts:		600
			X / X
			800
			$\times$ / $\land$ $\rightarrow$
			30° 15° 36°
SEOUL			
	SMJQ-D36W12Px		50-
FWHM / FWTM			75* 77*
Efficiency	Asymmetric 94 %		
Peak intensity	94 % 0.7 cd/lm		60*
	1		400
LEDs/each optic			
Light colour	White		45° 600 63°
Required componer	115:		
			300
			X   X
			30° 1000 30° 30°
SEOUL			
SEOUL SEMICONDUCTOR			90* 90*
LED	Z5M3		
FWHM / FWTM	Asymmetric		200 A
Efficiency	95 %		
Peak intensity	0.7 cd/lm		400
LEDs/each optic	1		$X//T \setminus X$
Light colour	White		45* 45*
Required componer	nts:		600
			13 <sup>5</sup>
			90*
SEOUL SEMICONDUCTOR	Z8Y22		5
FWHM / FWTM	Asymmetric	and the second se	75* 75*
Efficiency	93 %	and the second se	
Peak intensity	0.6 cd/lm	and the second	60 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1		
LEDS/each optic	ı White		
			e5* e5
Required componer	IIS.		
			200
			30* 30
			15° 0° 15°



SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x6 3000lm HP EXC2 OTD Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE 2x6 4500lm HP HE EXC3 OTD Z19 Asymmetric 96 % 0.6 cd/lm 1 White	



	Lorden FOFO Devend LEO	50° 50°
	J Series 5050 Round LES	750 200 75°
FWHM / FWTM	Asymmetric	
Efficiency	93 %	50 <sup>4</sup> 300 60 <sup>4</sup>
Peak intensity	0.6 cd/lm	$\land$
LEDs/each optic	1	
Light colour	White	45* 200 45*
Required components:		60
		710
		800
		30° <u>900</u> 30° 30°
		90* 9*
LED	J Series 5050B 6V K Class	
FWHM / FWTM	Asymmetric	75°
Efficiency	93 %	X
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	$X \times \bigwedge X X$
Light colour	White	45° 500 65°
Required components:		600
		700
		30* 30*
CREE ≑		
LEDS		90* 90*
LED		
	XHP35 HD	100
FWHM / FWTM	XHP35 HD Asymmetric	75%
		191- 100 100 100
FWHM / FWTM Efficiency	Asymmetric	
FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 %	23 <sup>6</sup> 200 72. 60 <sup>4</sup> 200 60 <sup>4</sup>
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.5 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1	5° 50 6°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.5 cd/lm 1	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1	50° 50° 70° 60° 60° 60° 60° 60° 60° 70°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White XP-G2 HE	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LEDs LED FWHM / FWTM	Asymmetric 92 % 0.5 cd/lm 1 White XP-G2 HE Asymmetric	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency	Asymmetric 92 % 0.5 cd/lm 1 White XP-G2 HE Asymmetric 92 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White XP-G2 HE Asymmetric 92 % 0.6 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White XP-G2 HE Asymmetric 92 % 0.6 cd/lm 1	
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 92 % 0.5 cd/lm 1 White XP-G2 HE Asymmetric 92 % 0.6 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White XP-G2 HE Asymmetric 92 % 0.6 cd/lm 1	
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 92 % 0.5 cd/lm 1 White XP-G2 HE Asymmetric 92 % 0.6 cd/lm 1	
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 92 % 0.5 cd/lm 1 White XP-G2 HE Asymmetric 92 % 0.6 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.5 cd/lm 1 White XP-G2 HE Asymmetric 92 % 0.6 cd/lm 1	



	-	
MUMILED	)S	90* 90*
LED	LUXEON 5050 Round LES	
FWHM / FWTM	Asymmetric	75° 100 75°
Efficiency	80 %	
Peak intensity	0.5 cd/lm	60° 60°.
LEDs/each optic	1	X / 30
Light colour	White	45* 400 45*
Required components:		X/T/X
Protective plate	e, glass	500
		30° 13° <del>10</del> 15° 30°
	)S	90* 90*
LED	LUXEON 5050 Square LES	
FWHM / FWTM	Asymmetric	75°
Efficiency	92 %	
Peak intensity	0.6 cd/lm	50°
LEDs/each optic	1	X 100 X
Light colour	White	45° 45°
Required components:		
		60
		710
		30 <sup>4</sup> 800 30 <sup>4</sup>
		13 <sup>5</sup> 0 <sup>6</sup> 15 <sup>6</sup>
	05	90° 90°
	S LUXEON 5050 Square LES	90°
		51 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
LED	LUXEON 5050 Square LES	90 <sup>2</sup> 20 <sup>5</sup> 20 20 20 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM	LUXEON 5050 Square LES Asymmetric	90* 90 80* 80* 90 80* 80* 80* 80*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Square LES Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1	70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1 White	70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1 White NFMW48xA	70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1 White NFMW48xA Asymmetric	70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1 White NFMW48xA Asymmetric 93 %	70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>EXAMPLANCE NOTION</b> LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1 White NFMW48xA Asymmetric 93 % 0.6 cd/lm	70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>WICHIA</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1 White NFMW48xA Asymmetric 93 % 0.6 cd/lm 1	70
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 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1 White NFMW48xA Asymmetric 93 % 0.6 cd/lm	70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>WICHIA</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1 White NFMW48xA Asymmetric 93 % 0.6 cd/lm 1	70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1 White NFMW48xA Asymmetric 93 % 0.6 cd/lm 1	70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 93 % 0.6 cd/lm 1 White NFMW48xA Asymmetric 93 % 0.6 cd/lm 1	70



ΜΝΙCΗΙΛ		
LED	NV4WB35AM	90° 90°
FWHM / FWTM		780
	Asymmetric 86 %	
Efficiency		50* 400 50*
Peak intensity	0.7 cd/lm	X/T
LEDs/each optic	1	800
Light colour	White	45*
Required components:		200
		$\times$
		1000
		30° 11° 0° 11° 30°
<b>Μ</b> ΝΙCΗΙΛ		
	NI/4×4.4.4	90° 90°
	NV4x144A	750 100 70
FWHM / FWTM	Asymmetric 90 %	
Efficiency		60° 60°
Peak intensity	0.4 cd/lm	20
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		700
		560
		30° 700 30° 30°
<b>Μ</b> ΝΙCΗΙΛ		THA KHI
LED	NVSxE21A	90* 90*
FWHM / FWTM		75 500 750
Efficiency	Asymmetric 92 %	
		60* 60*
Poak intensity		
Peak intensity	0.5 cd/lm	*
LEDs/each optic	4	30
LEDs/each optic Light colour		30 60 60 60
LEDs/each optic	4	-07
LEDs/each optic Light colour	4	
LEDs/each optic Light colour	4	5° 100 9°
LEDs/each optic Light colour	4	20 <sup>4</sup> 20 <sup>3</sup> 0 <sup>4</sup> 10 <sup>5</sup> 20 <sup>4</sup>
LEDs/each optic Light colour Required components:	4	50 40 50 50 50 60 60 60 50 50 50 50 50 50 50 50 50 5
LEDs/each optic Light colour Required components:	4 White	50° 123° 00° 127° 20°
LEDs/each optic Light colour Required components:	4 White NVSxE21A	
LEDs/each optic Light colour Required components:	4 White NVSxE21A Asymmetric	20- 0- 0- 0- 0- 0- 0- 0- 0- 0-
LEDs/each optic Light colour Required components:	4 White NVSxE21A Asymmetric 90 %	
LEDs/each optic Light colour Required components:	4 White NVSxE21A Asymmetric 90 % 0.6 cd/m	200 200 200 200 200 200 200 200 200 200
LEDs/each optic Light colour Required components:	4 White NVSxE21A Asymmetric 90 % 0.6 cd/lm 1	
LEDs/each optic Light colour Required components:	4 White NVSxE21A Asymmetric 90 % 0.6 cd/m	200 200 200 200 200 200 200 200 200 200
LEDs/each optic Light colour Required components:	4 White NVSxE21A Asymmetric 90 % 0.6 cd/lm 1	
LEDs/each optic Light colour Required components:	4 White NVSxE21A Asymmetric 90 % 0.6 cd/lm 1	
LEDs/each optic Light colour Required components:	4 White NVSxE21A Asymmetric 90 % 0.6 cd/lm 1	



OSRAM		
LED	PrevaLED Brick HP IP 2x6	80.
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	92 /8 0.6 cd/lm	. 50 <sup>4</sup> 60 <sup>4</sup>
LEDs/each optic	1	
Light colour	White	
Required components:	white	45* 45*
required components.		200
		$\times$
		1000
		30° 15° 30°
OSRAM Opto Semiconductors		90° 90°
LED	OSCONIQ P 3030	
FWHM / FWTM	Asymmetric	73°
Efficiency	92 %	
Peak intensity	0.6 cd/lm	50 <sup>4</sup> 400 60*
LEDs/each optic	1	
Light colour	White	45* 600
Required components:		800
		$\times$
		30* 30*
		(30* 1200 30* 30* 15 <sup>3</sup> 0 <sup>6</sup> 15*
OSRAM Onto Semiconductors		80. 172, <u>00,</u> 172,
Opto Semiconductors	OSCONIO P 3737 (3W version)	12 <sup>3</sup> 10 <sup>4</sup> 17 <sup>4</sup>
Opto Semiconductors	OSCONIQ P 3737 (3W version) Asymmetric	12 <sup>3</sup> (2 <sup>6</sup> 12 <sup>3</sup> )
<sup>Opto Semiconductors</sup> LED FWHM / FWTM	OSCONIQ P 3737 (3W version) Asymmetric 92 %	25 <sup>1</sup> (2 <sup>2</sup> ) (2 <sup>2</sup> ) (2 <sup>2</sup> )
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	Asymmetric 92 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version)	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 92 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric	
orto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Peak Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 92 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 92 %	
orto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 92 % 0.6 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 92 % 0.6 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:  OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.6 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 92 % 0.6 cd/lm 1	



OSRAM		
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	730 700 700
Efficiency	92 %	
Peak intensity	0.6 cd/lm	.60* 60*
LEDs/each optic	1	
Light colour	White	45* 500 45*
Required components:	WINC	
		300
		$\times$
		1000
		30° 13 <sup>5</sup> 0° 15° 31°
OSRAM		
Opto Semiconductors	0010110 000000000	90* 90*
	OSLON Square CSSRM2/CSSRM3	730 732
FWHM / FWTM	Asymmetric	That
Efficiency	92 %	50* 400 50*
Peak intensity LEDs/each optic	0.7 cd/lm	
	1 White	×
Light colour Required components:	White	ee.
Required components.		000
		1000
		30* 13 <sup>2</sup> 15 <sup>6</sup> 0 15* 30*
SAMSUN	10	
		90* 90*
LED	LH181B	730
FWHM / FWTM	Asymmetric	
Efficiency	92 %	634 400 654
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	X / w
Light colour	White	5 <sup>,</sup> 5 <sup>,</sup>
Required components:		200
1		1000
		100
		1000 20 <sup>4</sup> 120 00 13 <sup>6</sup> 20 <sup>4</sup> 30 <sup>4</sup>
<u>CUNCII</u>		20 <sup>2</sup> 10 <sup>2</sup> 10 <sup>2</sup> 20 <sup>2</sup>
SAMSUN		20 <sup>4</sup> 12 <sup>4</sup> 12 <sup>30</sup> 20 <sup>4</sup>
LED	LH351B	1000 30" 12" 13" 13" 13" 13" 13" 13" 13" 13"
LED FWHM / FWTM	LH351B Asymmetric	
LED FWHM / FWTM Efficiency	LH351B Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity	LH351B Asymmetric 93 % 0.6 cd/lm	24° 40° 12° 24° 40° 12° 80° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 93 % 0.6 cd/lm 1	24° 6° 13°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 93 % 0.6 cd/lm	24° 40° 12° 24° 40° 12° 80° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B Asymmetric 93 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 93 % 0.6 cd/lm 1	24 <sup>0</sup> 15 <sup>0</sup> 15 <sup>0</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 93 % 0.6 cd/lm 1	24 <sup>0</sup> 15 <sup>0</sup> 15 <sup>0</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B Asymmetric 93 % 0.6 cd/lm 1	



SAMSUN	IG	
		90° 90°
LED	LH351D	736
FWHM / FWTM	Asymmetric	mang
Efficiency	92 %	60 <sup>4</sup> 607
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	$ \times /  \setminus \times $
Light colour	White	-65* 65*
Required components:		
		000
		30* <u>15</u> <sup>5</sup> 0* 15 <sup>6</sup> 30*
SAMSUN	IG	
LED	LH502D	90° 90°
FWHM / FWTM	Asymmetric	75%
Efficiency	94 %	X2mm SX
Peak intensity	0.6 cd/lm	60 <sup>4</sup> 300 60*
LEDs/each optic	1	XXXX
Light colour	White	45* 550 45*
Required components:		
		700
		200
		30* 15 <sup>5</sup> 200 15* 30*
		90* 90*
SEOUL SEMICONDUCTOR	SEQUL DC 3030C	20
seoul semiconductor LED	SEOUL DC 3030C Asymmetric	94 00 pp - 07
seoul semiconductor LED FWHM / FWTM	SEOUL DC 3030C Asymmetric 93 %	200 000 000 000 000 000 000 000 000 000
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric	25° 000 7° 0°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 %	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.6 cd/lm	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.6 cd/lm 1	600
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.6 cd/lm 1	600
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.6 cd/lm 1	600
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.6 cd/lm 1	600
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.6 cd/lm 1	600
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1	60 67 80 80 80 80 80 80 80 80 80 80
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1 White	40 45 90 90 90 100 100 100 100 100 1
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul SEMICONDUCTOR LED FWHM / FWTM	Asymmetric 93 % 0.6 cd/lm 1 White SEOUL DC 5050 6V	60 67 80 80 80 80 80 80 80 80 80 80
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 93 % 0.6 cd/lm 1 White SEOUL DC 5050 6V Asymmetric	40 45 90 90 90 100 100 100 100 100 1
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 0.6 cd/lm 1 White SEOUL DC 5050 6V Asymmetric 93 %	60 67 80 80 80 80 80 80 80 80 80 80
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.6 cd/lm 1 White SEOUL DC 5050 6V Asymmetric 93 % 0.5 cd/lm	60 67 80 80 80 80 80 80 80 80 80 80
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.6 cd/lm 1 White SEOUL DC 5050 6V Asymmetric 93 % 0.5 cd/lm 1	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.6 cd/lm 1 White SEOUL DC 5050 6V Asymmetric 93 % 0.5 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.6 cd/lm 1 White SEOUL DC 5050 6V Asymmetric 93 % 0.5 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.6 cd/lm 1 White SEOUL DC 5050 6V Asymmetric 93 % 0.5 cd/lm 1	



STOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components:	Z5M1/Z5M2 Asymmetric 93 % 0.7 cd/lm 1 White	
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Z5M4 Asymmetric 94 % 0.6 cd/lm 1 White	
STOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Z8Y22T Asymmetric 91 % 0.7 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20



#### **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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#### Distribution Partners www.ledil.com/ where\_to\_buy