

STRADA-IP-2X6-T2-B

IESNA Type II (medium) beam with minimized house side backlight.

TECHNICAL SPECIFICATIONS:

Dimensions	71.4 x 173.0 mm
Height	12 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈

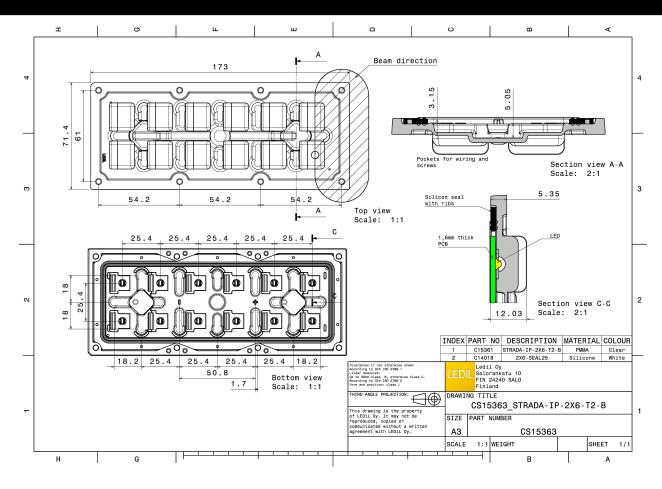


MATERIAL SPECIFICATIONS:

Component	Туре	Material	Colour	Finish
STRADA-IP-2X6-T2-B	Multi-lens	PMMA	clear	
2X6-SEAL25	Seal	Silicone	white	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS15363_STRADA-IP-2X6-T2-B	Multi-lens	120	40	40	8.0
» Box size: 476 x 273 x 247 mm					



R

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



bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Bridgelux SMD 5050 Asymmetric 94 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX 2x6 LED XG xxx G7+ Asymmetric 94 % 0.9 cd/lm 1 White nts:	9 ¹ 6 ¹
		 20 ¹ 20 ¹ 20 ² 20 ² 20 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX 2x6 LED XT xxx G5 Asymmetric 94 % 1 cd/lm 1 White	
		80. 22, 0, 13, 30,
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G2 Asymmetric 95 % 1.1 cd/lm 1 White nts:	
		30° 10° 10° 30°



		90* 90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	75* 75*
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60*
LEDs/each optic	1	400
Light colour	White	45*
Required compone	nts:	\times
		600
		\times / \times
		800
	_	130° 135 ⁴ 30°
		90*
LED	XP-L HD	
FWHM / FWTM	Asymmetric	738
Efficiency	94 %	50°
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	400
Light colour	White	
Required compone	nts:	
		200
		710
		30° 15° 8% 15° 30°
CREE ÷ LE		
		90° - 90°
LED	XP-L2	20 75- 80-
LED FWHM / FWTM	XP-L2 Asymmetric	90 ⁴
LED FWHM / FWTM Efficiency	XP-L2 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	XP-L2 Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L2 Asymmetric 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White nts:	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White nts:	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White nts:	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 1 cd/lm 1	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE Component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 1 cd/lm 1 White	20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 1 cd/lm 1 White	500 600 700 30 ⁴ 30 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE Component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 1 cd/lm 1 White	500 600 700 30 ⁴ 30 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE Component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 1 cd/lm 1 White	500 600 700 30 ⁴ 30 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE Component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White nts: XT-E Asymmetric 94 % 1 cd/lm 1 White	500 600 700 30 ⁴ 30 ⁴



		90* 90
LED	XT-E HE	
FWHM / FWTM	Asymmetric	738 751
Efficiency	94 %	
Peak intensity	1 cd/lm	60
		460
LEDs/each optic	1	
Light colour	White	45* 60
Required compone	nts.	
		900
		\times / \setminus \times
		30° 15° 30'
	EDC	
	ED2	90* 90
LED	LUXEON 5050 Round LES	
FWHM / FWTM	Asymmetric	756 750
Efficiency	94 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	$X / T \setminus X$
Light colour	White	45* 45
Required compone	nts:	
		\times
		800
		300 300
		₩ <u>15</u> ² 0 ⁰ 15 ⁴
🤭 LUMIL	EDS	90°*90
LED	LUXEON T	
FWHM / FWTM	Asymmetric	736 78
Efficiency	94 %	
Peak intensity	1 cd/lm	60
LEDs/each optic	1	
Light colour	White	45* 45
Required compone	nts:	800
		\times
		890
		30° 15 ⁵ 1080 15° 30'
UMIL	EDS	90* an
LED	LUXEON V	5
FWHM / FWTM	Asymmetric	735 781
Efficiency	92 %	
Peak intensity	0.8 cd/lm	50°
LEDs/each optic	1	
Light colour	White	400
Required compone		
	no.	
		600
		\times / \setminus λ
		30* 15* 000 15* 30
		800



			1-1
UMIL	EDS	90*	90*
LED	LUXEON V2		
FWHM / FWTM	Asymmetric	750	78*
Efficiency	94 %		
Peak intensity	0.9 cd/lm		
LEDs/each optic	1	400	
Light colour	White	45*	45*
Required componer	ts:	600	
		30*	30*
MOT		133 00	12+
MST Your soluti	ns	90*	90*
LED	RecLED 146x45mm 2900lm 730 STRADA-IP-2x6 G1		
FWHM / FWTM	Asymmetric	75°	78
Efficiency	96 %		
Peak intensity	0.9 cd/lm	60*	60*
LEDs/each optic	1	400	
Light colour	White	45*	45*
Required componer	ts:		
		200	T
		13 ⁵ 0 ⁶	12+
ØNICHI		90*	90*
LED	NVSW219D		
FWHM / FWTM	Asymmetric	750	-78°
Efficiency	94 %	504	1
Peak intensity	0.9 cd/lm		
LEDs/each optic	1	400	\sim
Light colour	White		45*
		45*	45*
Required componer	ts:	-67	
Required componer	ts:	45°	
Required component	ts:	67	
Required component	ts:	500 30 ¹⁰ 12 ³ 0 ¹⁰	5°.
		20 ¹ 20 ² 0 ²	351
ØNICHIA		500 30 ¹⁰ 12 ³ 0 ¹⁰	10° 30°
	NVSW219F	60 30 ¹ 22 ³ 0 ⁴	10 ⁴ 30 ⁴
NICHIA LED FWHM / FWTM	NVSW219F Asymmetric	90°	13 ² 35 ²
ED FWHM / FWTM Efficiency	NVSW219F Asymmetric 94 %	90°	13° 39'
ED FWHM / FWTM Efficiency Peak intensity	NVSW219F Asymmetric 94 % 0.9 cd/lm	90°	12 ² 32 ³
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW219F Asymmetric 94 % 0.9 cd/lm 1	90°	12° 30'
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F Asymmetric 94 % 0.9 cd/lm 1 White	90°	12° 30'
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW219F Asymmetric 94 % 0.9 cd/lm 1 White	90°	64 172 30
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F Asymmetric 94 % 0.9 cd/lm 1 White	90°	5°
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F Asymmetric 94 % 0.9 cd/lm 1 White	90°	64 172 252



∕∕ NICHI∕		90*	90*
LED	NVSW319B		
FWHM / FWTM	Asymmetric	756-	
Efficiency	94 %		
Peak intensity	0.9 cd/lm		60×
LEDs/each optic	1		400
Light colour	White	45.	5
Required compone	nts:		
		30"	15 ⁵ 0 ⁶ 15 ⁶ 30 ⁶
ØNICHI			
LED	NVSW3x9A	90*	90°
FWHM / FWTM	Asymmetric	75*	772
Efficiency	94 %		a de la construcción de la const
Peak intensity	0.8 cd/lm	554	
LEDs/each optic	1		
Light colour	White	.45*	400
Required compone	nts:		\times / \times
			600
		300	30
WNICHI			
		50*	En 81*
LED	NVSW519A	90*. 	50°
LED FWHM / FWTM	NVSW519A Asymmetric	90* 	the second secon
LED FWHM / FWTM Efficiency	NVSW519A Asymmetric 95 %	90* 78-	24
LED FWHM / FWTM Efficiency Peak intensity	NVSW519A Asymmetric	90* 724-	10 60
LED FWHM / FWTM Efficiency	NVSW519A Asymmetric 95 % 0.8 cd/lm	90* 	10 10 10 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White	90* 25* 69*	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White	90- 297 894	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White	90- 70- 814 67	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White	90- 753 64 -	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White nts:	90 70 67	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White nts:	90- 25- 67 92- 92-	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White nts: NVSxx19B/NVSxx19C	92 25 26 26 20 20 20 20 20 20 20 20 20 20 20 20 20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White nts: NVSxx19B/NVSxx19C Asymmetric	90 	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White nts: NVSxx19B/NVSxx19C Asymmetric 94 %	90- 293- 65 202- 202- 202- 202- 202- 202- 202- 20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White nts: NVSxx19B/NVSxx19C Asymmetric	90 	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White nts: NVSxx19B/NVSxx19C Asymmetric 94 % 1 cd/lm	90 	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White nts: NVSxx19B/NVSxx19C Asymmetric 94 % 1 cd/lm 1 White	92 25 26 26 20 20 20 20 20 20 20 20 20 20 20 20 20	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White nts: NVSxx19B/NVSxx19C Asymmetric 94 % 1 cd/lm 1 White		00 10 ³ 10 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White nts: NVSxx19B/NVSxx19C Asymmetric 94 % 1 cd/lm 1 White	90 297 297 297 297 297 297	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW519A Asymmetric 95 % 0.8 cd/lm 1 White nts: NVSxx19B/NVSxx19C Asymmetric 94 % 1 cd/lm 1 White	90 	



	-		
OSRAM	1		90* 92
LED	PrevaLED Brick HP IP 2x6		Ĩ
FWHM / FWTM	Asymmetric		73%
Efficiency	95 %		
Peak intensity	1 cd/lm		604 60
LEDs/each optic	1		
Light colour	White		
Required compone			60
			80
			30° 1000 30 13 ⁵ 0° 15°
OSRAM Opto Semiconductors			90* 90
LED	OSLON Square CSSRM2/CSSRM3		
FWHM / FWTM	Asymmetric	and the second se	73
Efficiency	94 %	And in case of the local division of the loc	
Peak intensity	1 cd/lm		60 ¹
LEDs/each optic	1		40
Light colour	White		45° 45
Required compone	ents:		800
			000
			115 ³ 0 ³ 15 ³
PHILIF	25		90° 90
LED	Fortimo FastFlex LED 2x6 DP G4		ay
FWHM / FWTM	Asymmetric		756 75
Efficiency	94 %		
Peak intensity	1.1 cd/lm		
LEDs/each optic	1		
Light colour	White		-65°
Required compone	ents:		60
			000
			30* 30
			13° 20° 13°
PHILIF	PS		90* 90
LED	Fortimo FastFlex LED 2x6 DP G5		and the second s
FWHM / FWTM	Asymmetric		75
Efficiency	96 %		
Peak intensity	1 cd/lm		
LEDs/each optic	1		X/T X
Light colour	White		45*
Required compone	ents:		
			$ \times \times $
			800
			30* 30
			102 00 10* 30



		NY YX
PHILIP	5	90* 90*
LED	Fortimo FastFlex LED 2x6 DP HE	
FWHM / FWTM	Asymmetric	750 750
Efficiency	96 %	
Peak intensity	0.7 cd/lm	400
LEDs/each optic	1	
Light colour	White	45* 600 45
Required componer	ts:	
		200
		\times / T \ λ
		30° 35 ⁵ 1000 10° 30°
<u> </u> 		
<u> 2111121</u>		90* 90*
LED	HiLOM RH12 (LH351C)	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	50* 50*
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	45'
Required componer	ts:	600
		\times / \times
		200
		30°
<u> </u> S M S I		
		90° 90°
LED	HiLOM RM12 ZP (LH502C)	780 780
FWHM / FWTM	Asymmetric	
Efficiency	95 %	
Peak intensity		
	0.7 cd/lm	400
LEDs/each optic	1	400
Light colour	1 White	5° 00 6'
	1 White	-0- -0- -0- -0- -0- -0- -0-
Light colour	1 White	67 00 67
Light colour	1 White	67 00 eV
Light colour	1 White	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
Light colour Required componer	1 White ts:	45° 000 05°
Light colour Required componen	1 White Its: LUX	5° 50 50 50 50 50 50 50 50 50 50 50 50 50
Light colour Required componen	1 White tts: LUX ROY-S26XPL2 (XP-L2)	
Light colour Required component SCIO LED FWHM / FWTM	1 White ts: LUX ROY-S26XPL2 (XP-L2) Asymmetric	
Light colour Required component SCIO LED FWHM / FWTM Efficiency	1 White ts: LUX ROY-S26XPL2 (XP-L2) Asymmetric 94 %	
Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity	1 White ts: LUX ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.7 cd/lm	
Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White ts: LUX ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.7 cd/lm 1	23 ⁻ 22 ⁻ 23 ⁻ 29 ⁻
Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ts:	
Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White ts:	20 ⁺ 00 ⁺
Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ts:	23 ⁻ 22 ⁻ 23 ⁻ 29 ⁻
Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ts:	20 ⁺ 00 ⁺



SCIO	LUX		90*	- T	FT
LED	XLE-S22C4XTEHE (XT-E HE)		90	-	
FWHM / FWTM	Asymmetric		759		
Efficiency	94 %			~	
Peak intensity	1 cd/lm		50*	\sim	
LEDs/each optic	1				400
Light colour	White				
Required compone					800
riequirea compone			\rightarrow		
					800
			\sim		
			30°	155	1030 15*
SCIO	LUX		90*	HY.	FHT
LED	XLE-S26XHP35 (XHP35 HD)			2	
FWHM / FWTM	Asymmetric		251		
Efficiency	94 %				at A
Peak intensity	0.7 cd/lm		60*		
LEDs/each optic	1				300
Light colour	White		45*		400
Required compone	ints:				500
			. 7		
			\sim		640
			X		700
			30*	155	0° 15°
					·
			90*		
	SMJQ-D36W12Mx		90.6		
seoul semiconductor	SMJQ-D36W12Mx Asymmetric		90° 78*		
SEOUL SEMICONDUCTOR					
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric				
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 %				40
seoul semiconductor LED FWHM / FWTM	Asymmetric 93 % 0.9 cd/lm				40
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.9 cd/lm 1 White		.734 .604		40
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.9 cd/lm 1 White		.734 .604		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.9 cd/lm 1 White		.734 .604		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.9 cd/lm 1 White		.734 .604		40
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 0.9 cd/lm 1 White		.734 .604		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.9 cd/lm 1 White		.734 .604		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 0.9 cd/lm 1 White		90°		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 0.9 cd/lm 1 White Ints:		29 60* 39*		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM	Asymmetric 93 % 0.9 cd/lm 1 White Ints: SMJQ-D36W12Px		90°		
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 93 % 0.9 cd/lm 1 White Ints: SMJQ-D36W12Px Asymmetric		90°		
stoul stemiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul stemiconbuctor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 0.9 cd/lm 1 White onts: SMJQ-D36W12Px Asymmetric 94 %		90°		
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 Light colour	Asymmetric 93 % 0.9 cd/lm 1 White ints: SMJQ-D36W12Px Asymmetric 94 % 0.8 cd/lm 1 White		90°		
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 93 % 0.9 cd/lm 1 White ints: SMJQ-D36W12Px Asymmetric 94 % 0.8 cd/lm 1 White		97 97 97 97 97		
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 Light colour	Asymmetric 93 % 0.9 cd/lm 1 White ints: SMJQ-D36W12Px Asymmetric 94 % 0.8 cd/lm 1 White		97 97 97 97 97		
SEOUL 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 93 % 0.9 cd/lm 1 White ints: SMJQ-D36W12Px Asymmetric 94 % 0.8 cd/lm 1 White		97 97 97 97 97		
SEOUL 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 93 % 0.9 cd/lm 1 White ints: SMJQ-D36W12Px Asymmetric 94 % 0.8 cd/lm 1 White		97 97 97 97 97		



With Xeymmetric LED Z5M3 PVMM / PVM Asymmetric Efficiency 94 % Peak intensity 0.9 cdfm LEDiversity offic 1 Light colour While Required components: Image: Component Componen				
LED ZB/3 FWH / FWTM Asymmetric Efficiency 94 % Pack intensity 0.9 cd/m LED ZBY22 protect LED ZBY22 protect FWH / FWTM Asymmetric Efficiency 93 % Pack intensity 0.9 cd/m LED/secan topic 1 Light colour White Required components: EED ZBY22 protect Efficiency 93 % Pack intensity 0.9 cd/m LED/secan topic 1 Light colour White Required components: EED ZBY22 protect FWH / FWTM Asymmetric Efficiency 94 % Efficiency 94 % Efficiency 94 %				
FWHM / FWTM Asymmetric Efficiency 34 % Peak intensity 0.9 ddlm LEDeland optic 1 Light colour While Required components: Image: Components: Sensement ED LED 28Y22 FWHM / FWTM Asymmetric Efficiency 39 % Peak Intensity 0.9 cdlm LED 28Y22 FWHM / FWTM Asymmetric Efficiency 39 % Peak Intensity 0.9 cdlm LED/action with the The components		75M2		90* 90*
Efficiency 94% Peak intensity 0.9 cd/m LEDeveach optic LED Required components:				750 780
Peak intensity 0.9 cd/m LED/seach optic 1 LeD/seach optic 1 LeD/seach optic 2 With colour White Required components: LED Z8Y22 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.9 cd/m LED/seach optic 1 LeD/seach optic 1 LE				
LEDéreach optie 1 Light colour White Required components: Sexustance LED Z8Y22 FVHM / FVTM Asymmetric Efficiency 93 % Peak inclusion 0.3 od/m LEDéreach optie 1 Light colour White Required components: Sexustance LED Z8Y22 FVHM / FVTM Asymmetric Efficiency 94 % Peak inclusion 0.3 od/m LED Z8Y22P FVHM / FVTM Asymmetric Efficiency 94 % Peak inclusion 0.3 od/m LED Z8Y22P FVHM / FVTM Asymmetric Efficiency 94 % Peak inclusion 0.3 od/m LED/Sech optio 1 Light colour White Required components: Sexustance ED Z8Y22P FVHM / FVTM Asymmetric Efficiency 94 % Peak inclusion 0.3 od/m LED/Sech optio 1 Light colour White Required components: Sexustance ED Z8Y22P FVHM / FVTM Asymmetric Efficiency 94 % Peak inclusion 0.3 od/m LED/Sech optio 1 Light colour White Required components: Sexustance ED Z8Y22P FVHM / FVTM Asymmetric Efficiency 94 % Peak inclusion 0.3 od/m LED/Sech optio 1 Light colour White Required components: Sexustance ED Z8Y22P FVHM / FVTM Asymmetric Efficiency 94 % Peak inclusion 0.3 od/m LED/Sech optio 1 Light colour White Required components: Sexustance Sexustance Efficiency 94 % Peak inclusion 0.3 od/m LED/Sech optio 1 Light colour White Required components: Sexustance Sexu				60* 60*
Light colour White Required components: www.www.wr.w LED ZN22 FWMM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.9 col/m LEDs/each optic Required components: www.wr.wr.wr.wr.wr.wr.wr.wr.wr.wr.wr.wr.				400
Required components:				45*
SIGNERATION STORE SHOUNDERON LED Z8Y22 FVMM / FVTTM Asymmetric Efficiency 93 % Peak intensity 0.9 col/m LEDs/each optic 1 Light colour White Required components: STORE SHOUNDERON LED Z8Y22P FVMM / FVTTM Asymmetric Efficiency 94 % Peak intensity 0.8 col/m LEDs/each optic 1 Light colour White Required components: STORE SHOUNDERON LEDS/each optic 1 Light colour White Required components: STORE SHOUNDERON STORE SHOUNDERON LEDS REAL STORE SHOUNDERON STORE SHOUNDERON LED SHOUNDERON STORE				
sex servectors LED Z3Y22 FVHM / FVTM Asymmetric Efficiency 93 % Peak intensity 0.9 culm LEDs/each optic 1 LEDs/each optic 1 LED second Required components:	rtoquirou componen			
sex servectors LED Z3Y22 FVHM / FVTM Asymmetric Efficiency 93 % Peak intensity 0.9 culm LEDs/each optic 1 LEDs/each optic 1 LED second Required components:				X X
sex servectors LED Z3Y22 FVHM / FVTM Asymmetric Efficiency 93 % Peak intensity 0.9 culm LEDs/each optic 1 LEDs/each optic 1 LED second Required components:				800
sex sexecore LED Z8Y22 FYHM / FYTM Asymmetric Efficiency 93 % Peak intensity 0.9 cd/m LEDs/each opti 1 Light colour White Required components:				30° 15' 0° 15' 30°
LED Z9Y2 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity LEDs/each optic 1 Light colour White Required components Seeseneet LED Z8Y22P FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 col/m LEDs/each optic 1 Light colour White Required components Seeseneet LED REL205 2000m HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %				
FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.9 cd/lm LEDs/each optio 1 Light colour White Required components:		70/00		90° 90°
Efficiency 93 % Peak intensity 0.9 cd/m LEDs/each optic 1 LGD Z8Y22P FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components:				75.
Peak intensity 0.9 cd/m LEDs/each optic 1 Light colour White Required components:			and the second se	
LEDs/each optic 1 Light colour White Required components:				605 602
Light colour White Required components:				40
Required components: Server LED Z8Y22P FWHM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: SERVER LED RLE 2x6 3000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %				$X / / T \land X$
SINGLASS ENCLASS SINGLASS ENCLASS VEXAL ENCLASS FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components: Image: Component State				·6'
stous same conserverse LED 28Y22P FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required componerrise FWHM / FWTM Asymmetric LED RLE 2x6 3000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %	Required component	15.		600
stous same conserverse LED 28Y22P FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required componerrise FWHM / FWTM Asymmetric LED RLE 2x6 3000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %				\times
stous same conserverse LED 28Y22P FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required componerrise FWHM / FWTM Asymmetric LED RLE 2x6 3000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %				00
stous same conserverse LED 28Y22P FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required componerrise FWHM / FWTM Asymmetric LED RLE 2x6 3000Im HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %				30° 15 ⁵ 0° 15° 30°
LED Z8Y22P FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components Vinite Required components Vinite Required components Vinite FUEDONICE LED ket 2x6 3000 mHP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %				
FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components Image: Component of the symmetric of		70/220		90* 90*
Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: TRIDONIC LED RLE 2x6 3000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %				254 782
Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components Image: Component of the state				
LEDs/each optic 1 Light colour White Required components:				63* 60*
Light colour White Required components:				
Required components:				45*
TRIDONIC LED RLE 2x6 3000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %				
LED RLE 2x6 3000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %	rtoquiroù componon			600
LED RLE 2x6 3000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %				\times
LED RLE 2x6 3000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %				810
LED RLE 2x6 3000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %				30° 33° 33°
LED RLE 2x6 3000lm HP EXC2 OTD FWHM / FWTM Asymmetric Efficiency 94 %	TRIDON			
FWHM / FWTM Asymmetric Efficiency 94 %				90* 90*
Efficiency 94 %				710 710
	Peak intensity	94 % 1 cd/lm		60* 61*
LEDs/each optic 1				
Light colour White *				
Required components:				
80				800
20 ⁴ 12 ⁵ 0 ⁴ 12 ⁴				30° 15° 30°



		96° 90°
LED	J Series 5050 Round LES	
FWHM / FWTM	Asymmetric	73°
Efficiency	94 %	
Peak intensity	0.7 cd/lm	664 664
LEDs/each optic	1	400
Light colour	White	
Required components:	WINC .	
		600
		30* 30° 30°
LED	J Series 5050 Square LES	90* 90*
FWHM / FWTM		750 750
	Asymmetric 94 %	
Efficiency Peak intensity	94 % 0.6 cd/lm	604 604
	1	
LEDs/each optic		400
Light colour	White	(65° (63°)
Required components:		640
		30 ⁴ 13 ⁵ 0 ⁶ 15 ⁴ 30 ⁴
		90* 90*
	XHP35 HD	750 780
FWHM / FWTM	Asymmetric	- Mart
Efficiency	95 %	60 ⁴ 60 ⁴ .
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	40
Light colour	White	(5°
Required components:		640
		30 ⁴ 13 ⁵ 0 ⁶ 15 ⁶ 30 ⁴
	VUDOC U	90* 90*
	XHP35 HI	750 200
FWHM / FWTM	Asymmetric	
Efficiency	96 %	60 ⁴ 60 ⁴
Peak intensity	0.8 cd/lm	400
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required components:		
		800
		30* 15 ⁵ 1890 15* 30*



-		
		<u>80</u> *
LED	XM-L2	
FWHM / FWTM	Asymmetric	73° Z Martin Tre
Efficiency	95 %	
Peak intensity	0.7 cd/lm	604 644
LEDs/each optic	1	400
Light colour	' White	
Required components:	White	45" 600
Required components.		
		200
		\times / \times
		30* 15 ⁵ 1850 15* 30*
		90* 90*
LED	XP-G	1
FWHM / FWTM	Asymmetric	The company and the
Efficiency	95 %	
Peak intensity	0.9 cd/lm	50* 60*
LEDs/each optic	1	\times
Light colour	White	
Required components:	WINC .	
		30* 15 ⁵ 0 ⁶ 15* 30*
		90*
	XP-G2 HE	90°
LED	XP-G2 HE Asymmetric	90°
LED FWHM / FWTM	Asymmetric	23
LED FWHM / FWTM Efficiency	Asymmetric 93 %	50°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 0.7 cd/lm	90° 90° 73° 72° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.7 cd/lm 1	90° 73° 60° 600 600 600 600 600 600 600 600 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.7 cd/lm	90* 30 50* 60 60 60 67 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 0.7 cd/lm 1	90* 90* 90* 90* 90* 90* 90* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.7 cd/lm 1	90* 30* 400 60* 60* 60* 60* 60* 60* 60* 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.7 cd/lm 1	90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.7 cd/lm 1	90* 23* 60* 60* 60* 60* 60* 60* 60* 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.7 cd/lm 1 White	60 60 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.7 cd/lm 1 White	60 60 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.7 cd/lm 1 White S LUXEON 5050 Square LES	00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.7 cd/lm 1 White S LUXEON 5050 Square LES Asymmetric	<u>80</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>9</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.7 cd/lm 1 White S LUXEON 5050 Square LES Asymmetric 94 %	50 ⁴ 50 ⁴ 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.7 cd/lm 1 White S LUXEON 5050 Square LES Asymmetric 94 % 0.6 cd/lm	50 ⁴ 50 ⁴ 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.7 cd/lm 1 White UXEON 5050 Square LES Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.7 cd/lm 1 White S LUXEON 5050 Square LES Asymmetric 94 % 0.6 cd/lm	<u>80</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>90</u> <u>9</u>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.7 cd/lm 1 White UXEON 5050 Square LES Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.7 cd/lm 1 White UXEON 5050 Square LES Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 93 % 0.7 cd/lm 1 White UXEON 5050 Square LES Asymmetric 94 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 0.7 cd/lm 1 White UXEON 5050 Square LES Asymmetric 94 % 0.6 cd/lm 1	00 00 00 00 00 00 00 00 00 00



	DS	90* 96'
LED	LUXEON 5050 Square LES	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	400
Light colour	White	5° 6
Required components:		600
		30* 00 00 10° 30'
	S	
LED	LUXEON R	90° 90°
FWHM / FWTM	Asymmetric	75° Man 75
Efficiency	96 %	
Peak intensity	0.9 cd/lm	60 60
LEDs/each optic	1	
Light colour	White	45'
Required components:		640
- 1		
		000
		(30° 1000 30° 15° 0° 15°
UMILEC	DS	90° 90°
LED	LUXEON Rebel ES	
FWHM / FWTM	Asymmetric	no contraction of the second s
Efficiency	96 %	
Peak intensity		60* V C 60
	0.9 cd/lm	40
	0.9 cd/lm 1	
LEDs/each optic Light colour		er co
LEDs/each optic	1	er 200 er
LEDs/each optic Light colour	1	40 40 40 40 40 40 40 40 40
LEDs/each optic Light colour	1	-00 -07 -07 -07 -07
LEDs/each optic Light colour	1	
LEDs/each optic Light colour Required components:	1 White	-e ^c -e ^c -
LEDs/each optic Light colour Required components:	1 White	6°
LEDs/each optic Light colour Required components:	1 White DS LUXEON TX	20 40 40 40 40 40 40 40 40 40 4
LEDs/each optic Light colour Required components:	1 White DS LUXEON TX Asymmetric	
LEDs/each optic Light colour Required components:	1 White DS LUXEON TX Asymmetric 96 %	
LEDs/each optic Light colour Required components: UED FWHM / FWTM Efficiency Peak intensity	1 White S LUXEON TX Asymmetric 96 % 0.9 cd/m	
LEDs/each optic Light colour Required components: UDMILED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White S LUXEON TX Asymmetric 96 % 0.9 cd/lm 1	
LEDs/each optic Light colour Required components: Control LUMILED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White S LUXEON TX Asymmetric 96 % 0.9 cd/m	
LEDs/each optic Light colour Required components: UDMILED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White S LUXEON TX Asymmetric 96 % 0.9 cd/lm 1	
LEDs/each optic Light colour Required components: Control LUMILED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White S LUXEON TX Asymmetric 96 % 0.9 cd/lm 1	
LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White S LUXEON TX Asymmetric 96 % 0.9 cd/lm 1	



	5	THY EFT
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON Z ES Asymmetric 96 % 1 cd/lm 1 White	
MICHIΛ		12 ⁴ 12 ⁵ 12 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NV4WB35AM Asymmetric 87 % 0.7 cd/lm 1 White	
Μ ΝΙCΗΙΛ		20° 12° 0° 23° 33°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxE21A Asymmetric 91 % 0.8 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxE21A Asymmetric 92 % 1.1 cd/m 1 White	



OSRAM Opto Semiconductors		
LED	Duris S8	30-
FWHM / FWTM	Asymmetric	75* 77*
	94 %	
Efficiency		504 604
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	400
Light colour	White	65°
Required components:		000
		30* 30*
OSRAM		
Opto Semiconductors		90° 90°
LED	OSCONIQ P 3737 (3W version)	75
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60*
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	X / T X X
Light colour	White	45* 65*
Required components:		000
		X X
		800
		30*
OCDAM		
OSRAM		
Opto Semiconductors		90° 90°
Opto Semiconductors	OSLON Square PC	23 WWW 25
Opto Semiconductors LED FWHM / FWTM	Asymmetric	39°
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 95 %	50° 50°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 0.9 cd/lm	90° 90' 33° 7° 7° 7° 7° 7° 7° 60° 60°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.9 cd/lm 1	90° 90° 70° 70° 70° 70° 70° 70° 70° 70° 70° 70°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.9 cd/lm	90° 90° 70° 400 60° 60° 60°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.9 cd/lm 1	60° 60° 60°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.9 cd/lm 1	99° 73° 60° 80° 80° 80° 80° 80° 80° 80° 8
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.9 cd/lm 1	90 90 90 90 90 90 90 90 90 90
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.9 cd/lm 1	5, 5, 5, 5, 5, 5, 5, 5, 5, 5,
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.9 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.9 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.9 cd/lm 1 White Fortimo FastFlex LED 2x6 DPX G4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.9 cd/lm 1 White Fortimo FastFlex LED 2x6 DPX G4 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency	Asymmetric 95 % 0.9 cd/lm 1 White Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 93 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 0.9 cd/lm 1 White Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 93 % 0.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.9 cd/lm 1 White Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 93 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.9 cd/lm 1 White Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 93 % 0.7 cd/lm	20°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.9 cd/lm 1 White Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 93 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.9 cd/lm 1 White Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 93 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.9 cd/lm 1 White Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 93 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.9 cd/lm 1 White Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 93 % 0.7 cd/lm 1	



сласия	10	
SAMSUN	10	90* 90*
LED	LH351B	
FWHM / FWTM	Asymmetric	3° minut 3°
Efficiency	94 %	
Peak intensity	0.8 cd/lm	-06 · · · · · · · · · · · · · · · · · · ·
LEDs/each optic	1	400
Light colour	White	45* 45*
Required components:		0,0
		000
		30° 15° 30°
SAMSUN	IG	90* 90*
LED	LH351C	
FWHM / FWTM	Asymmetric	734 77
Efficiency	94 %	
Peak intensity	0.8 cd/lm	50° 60°
LEDs/each optic	1	400
Light colour	White	45' 45'
Required components:		600
		800
		\angle / \top / \ge
		30° 30°
		B*0*B*
SAMSUN	IG	90° 90°
		15° 0° 15°
LED	LH351D	50° 0° 13°
LED FWHM / FWTM		13° 8° 13°
LED FWHM / FWTM Efficiency	LH351D Asymmetric	29° 29° 29° 29° 29° 29° 29° 29° 29° 29°
LED FWHM / FWTM Efficiency Peak intensity	LH351D Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 94 % 0.7 cd/m	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.7 cd/lm 1	79° 75°. 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 94 % 0.7 cd/lm 1	79° 75°. 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.7 cd/lm 1	29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.7 cd/lm 1	29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351D Asymmetric 94 % 0.7 cd/lm 1 White	29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351D Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351D Asymmetric 94 % 0.7 cd/lm 1 White	29
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351D Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM	LH351D Asymmetric 94 % 0.7 cd/m 1 White G LH351Z Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency	LH351D Asymmetric 94 % 0.7 cd/m 1 White LH351Z Asymmetric 96 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity	LH351D Asymmetric 94 % 0.7 cd/m 1 White LH351Z Asymmetric 96 % 0.9 cd/m	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 94 % 0.7 cd/m 1 White LH351Z Asymmetric 96 % 0.9 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.7 cd/m 1 White LH351Z Asymmetric 96 % 0.9 cd/m	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 94 % 0.7 cd/m 1 White LH351Z Asymmetric 96 % 0.9 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.7 cd/m 1 White LH351Z Asymmetric 96 % 0.9 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.7 cd/m 1 White LH351Z Asymmetric 96 % 0.9 cd/m 1	



SAMSUN	IG	90* 99*
LED	LH502C	
FWHM / FWTM	Asymmetric	734 75
Efficiency	94 %	
Peak intensity	0.6 cd/lm	.60* 60'
LEDs/each optic	1	
Light colour	White	45* 45
Required components:		\times
		690
		\times / \setminus \times
		800
		130* 13 ⁵ 0° 15*
		91 ⁴ 911
LED	SEOUL DC 3030C	
FWHM / FWTM	Asymmetric	735 75
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60 ⁴ / 60 ⁴
LEDs/each optic	1	
Light colour	White	6°
Required components:		
····		X
		300
		30° 1000 30° 30°
	Z5M	×
FWHM / FWTM	Asymmetric	73°
Efficiency	95 %	
Peak intensity	0.9 cd/lm	80° 400 80°
LEDs/each optic	1	
Light colour	White	451 660 57
Required components:		
····		
		\times / \top / \times
		1000
		90* 30* 30*
SEOUL		
seoul semiconductor	Z5M1/Z5M2	90" 90"
FWHM / FWTM	Asymmetric	730
Efficiency	91 %	
Peak intensity	1 cd/lm	.60 ⁴ 60 ⁴
LEDs/each optic	1	$ \times / / \top \vee \times$
	White	
		45
Light colour	white	
	winte	
Light colour	winte	00
Light colour	Wine	00



SEOUL SEMICONDUCTOR		50*
LED	Z5M4	
FWHM / FWTM	Asymmetric	
Efficiency	95 %	
Peak intensity	0.8 cd/lm	50 ⁴
LEDs/each optic	1	
Light colour	White	er. er.
Required components	S:	00
l		
		80
		24
		50 15 ⁵ 1 <u>6</u> 00 20 15 ⁵ 1 <u>6</u> 00 15 ⁴



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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13 FI-24240 SALO Finland

LEDiL Inc. 228 West Page Street Suite D Sycamore IL 60178 USA

Ledil Optics Technology (Shenzhen) Co., Ltd. # 405 , Block B Casic Motor Building Shenzhen 518057 P.R.CHINA

Local sales and technical support www.ledil.com/ where_to_buy

Shipping locations Salo, Finland Hong Kong, China

Distribution Partners www.ledil.com/ where_to_buy