

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 🛈

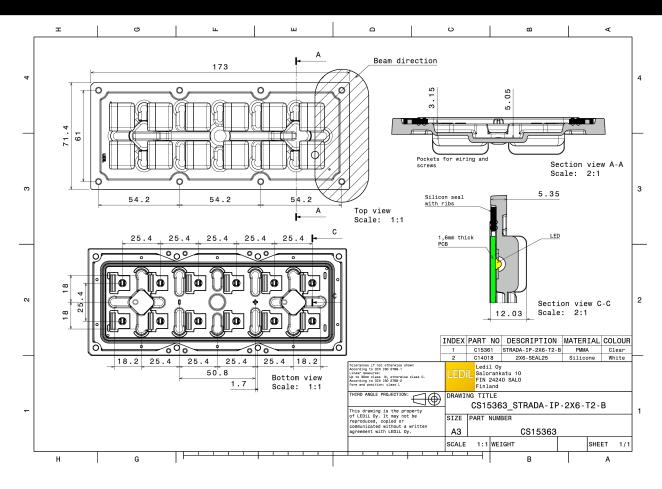


MATERIAL SPECIFICATIONS:

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					



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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 	



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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