

STRADA-IP-2X6-DWC

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

TECHNICAL SPECIFICATIONS:

Dimensions	173.0 x 71.4 mm
Height	9 mm
Fastening	pin, screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈

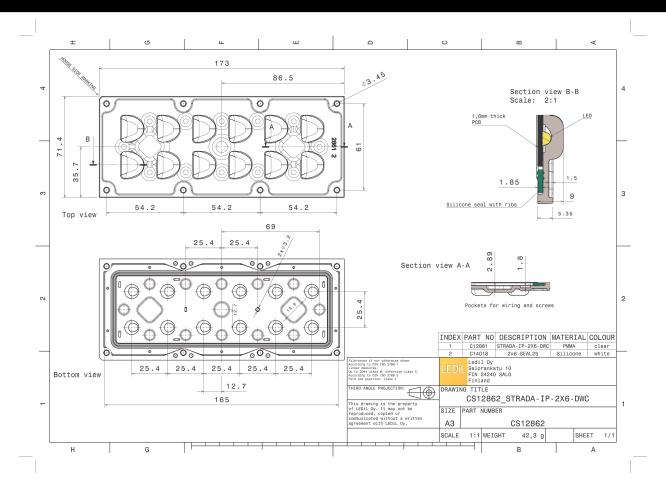


MATERIAL SPECIFICATIONS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS12862_STRADA-IP-2X6-DWC	Multi-lens	120	40	40	6.8
» Box size: 476 x 273 x 247 mm					



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



	QUICK FLUX 2x6 LED XG xxx G7+	
FWHM / FWTM	Asymmetric	73%
Efficiency	94 %	200
Peak intensity	0.5 cd/lm	50° 50°
LEDs/each optic	1	400
Light colour	' White	$\wedge / / \wedge \wedge$
Required compone		· 6'' · · · · · · · · · · · · · · · · ·
Required compone	115.	
		800
		30° 15° 30°
CODIT		
		90* 90*
LED	QUICK FLUX 2x6 LED XT xxx G5	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	\times
Light colour	White	45* 500 45*
Required compone	nts:	
		000
		30* 30*
		15 1890 10*
		90* 90*
LED	XP-G	
FWHM / FWTM	Asymmetric	73°
Efficiency	96 %	
Peak intensity	0.5 cd/lm	66 ⁴ 66 ⁴
LEDs/each optic	1	
Light colour	White	42+ 43+
Required compone	nts:	
		\times
		800
		30 ⁴ 13 ³ 10 ⁴ 30 ⁴
		90* 90*
LED	XP-G2	
FWHM / FWTM	Asymmetric	73.0 79.0
Efficiency	94 %	200
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	400
Light colour	White	45* 45*
Required compone		
		\bigvee / T / \bigvee
		800
		30* 30*
		12 ³ 0° 15°



		90* 90*
LED	 XP-G3	
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	200
Peak intensity	0.5 cd/lm	50* 30 50*
LEDs/each optic	1	× / 400
Light colour	White	45'
Required compone	nts:	
		640
		700
		30° 800 30°
		······································
		90* 90*
LED	XP-L2	750 100 ~~~
FWHM / FWTM	Asymmetric	
Efficiency	94 %	50* 200 60*
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	$X \times / T \Gamma X \times$
Light colour	White	45* 400 45*
Required compone	nts:	500
		XITX
		60
		30° 15° 30°
		15' 80 15'
		15 [°] 0° 15 [°]
		10° 0° 13°
LED	EHP-2x6-IP-3535	
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 94 %	20° 23° 20° 23° 20° 23° 20° 23° 20° 23° 25° 25° 25° 25° 25° 25° 25° 25° 25° 25
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.5 cd/lm	20° 23° 25° 25° 25° 25° 25° 25° 25° 25° 25° 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1	50° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1 White	50° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	50° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	50° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	50° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.5 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.5 cd/lm 1 White nts: EHP-2x6-IP-5050	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.5 cd/lm 1 White nts: EHP-2x6-IP-5050 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.5 cd/lm 1 White nts: EHP-2x6-IP-5050 Asymmetric 96 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.5 cd/lm 1 White nts: EHP-2x6-IP-5050 Asymmetric 96 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1 White nts: EHP-2x6-IP-5050 Asymmetric 96 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone ELEC FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White nts: EHP-2x6-IP-5050 Asymmetric 96 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone ELEC FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White nts: EHP-2x6-IP-5050 Asymmetric 96 % 0.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White nts: EHP-2x6-IP-5050 Asymmetric 96 % 0.5 cd/lm 1 White	



	EDC	
UMIL		90*
LED	LUXEON 5050 Round LES	75 20 100 7
FWHM / FWTM	Asymmetric	
Efficiency	94 %	st. 200
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	40 40
Required componer	nts:	
		500
		000
		30° 15 ² 0° 15° 3
	EDS	
LED	LUXEON R	30* 9
ED FWHM / FWTM	Asymmetric	75
Efficiency	96 %	
Peak intensity	0.6 cd/lm	600
LEDs/each optic	1	40
Light colour	White	
Required componer		
i i oquiloù compone.		
		80
		00* 1000 3 15 ⁴ 0 ⁶ 15*
UMIL	EDS	
		90*
LED	LUXEON Rebel ES	8*9
		30° 200 200
LED	LUXEON Rebel ES	30*
LED FWHM / FWTM	LUXEON Rebel ES Asymmetric	9× 9 73* 20 50* 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 96 %	90* 705 60* 400 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White	9° 79° 60° 60° 60° 60° 60° 60° 60° 60° 60° 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White	9° 99 99 99 99 99 99 99 99 99 99 99 99 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White	9× 13× 6× 40 60 60 10× 10× 10× 10× 10× 10× 10× 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White nts:	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White nts:	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White nts:	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White nts: EDS LUXEON T Asymmetric	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White nts: EDS LUXEON T Asymmetric 95 %	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer COMPARENTIAL Efficiency Peak intensity	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White nts: EDS LUXEON T Asymmetric 95 % 0.6 cd/lm	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Wequired componer Composition Required componer Required componer Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White nts: EDS LUXEON T Asymmetric 95 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer With colour ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White nts: EDS LUXEON T Asymmetric 95 % 0.6 cd/lm 1 White	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer COMPARENTIAL LED FWHM / FWTM Efficiency Peak intensity	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White nts: EDS LUXEON T Asymmetric 95 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer With colour ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White nts: EDS LUXEON T Asymmetric 95 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer With colour ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 96 % 0.6 cd/lm 1 White nts: EDS LUXEON T Asymmetric 95 % 0.6 cd/lm 1 White	



	90* 90*
LED LUXEON V	
FWHM / FWTM Asymmetric	73*
Efficiency 92 %	
Peak intensity 0.5 cd/lm	- 60 ⁴
LEDs/each optic 1	
Light colour White	400
Required components:	200
	000
	760
	20° 12° 660 12° 0°
M LUMILEDS	90*
LED LUXEON V2	
FWHM / FWTM Asymmetric	75°
Efficiency 94 %	
Peak intensity 0.5 cd/lm	60 ¹
LEDs/each optic 1	
Light colour White	45*
Required components:	ole
	\times / \times
	800
	30"
	13 ⁵ 0 ⁶ 15 ⁵
Μ ΝΙCΗΙΛ	90* 90*
LED NVSW219D	
	75°
FWHM / FWTM Asymmetric	200
Efficiency 94 %	
Efficiency 94 % Peak intensity 0.5 cd/lm	63* 68*
Efficiency94 %Peak intensity0.5 cd/lmLEDs/each optic1	60 ⁴ 60
Efficiency94 %Peak intensity0.5 cd/lmLEDs/each optic1Light colourWhite	60° 60°
Efficiency94 %Peak intensity0.5 cd/lmLEDs/each optic1	61 ³ 60
Efficiency94 %Peak intensity0.5 cd/lmLEDs/each optic1Light colourWhite	63 ⁴ 60 ⁴
Efficiency94 %Peak intensity0.5 cd/lmLEDs/each optic1Light colourWhite	
Efficiency94 %Peak intensity0.5 cd/lmLEDs/each optic1Light colourWhite	
Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components:	20
Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components:	
Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components Image: Chick of the second secon	
Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components	
Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components Vision VICCHIN NVSW219F FWHM / FWTM Asymmetric Efficiency 94 %	
Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components Vision VICCHIN NVSW219F FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.5 cd/lm	
Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components Vice VICCHIN NVSW219F FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1	
Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: Image: Component State St	
Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components Vice VICCHIN NVSW219F FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1	
Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: Vision VICCHIN VSW219F FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	
Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components: Vision VICCHIN VSW219F FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	



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			90*	90*
LED	NVSW319B		75%	100 75°
FWHM / FWTM Efficiency	Asymmetric 94 %			200
Peak intensity	94 % 0.5 cd/lm		60°	300 604
LEDs/each optic	1			400
Light colour	White		45"	54
Required compone	ents:			200
				600
			T	700
			30* 155	800 0° 15° 30°
ØNICHI			90*	YAT.
LED	NVSW3x9A		30*	
FWHM / FWTM	Asymmetric		75%	200 75°
Efficiency	94 %		XXX	200
Peak intensity	0.5 cd/lm		60°	300 60*
LEDs/each optic	1		\sim	400
Light colour	White		45*	500 45*
Required compone	ents:		\searrow \rightarrow	600
			\checkmark \rightarrow	700
			$\prec \rightarrow \rightarrow$	800
			30°	0° 30°
Ø NICHI/	L .		90*	90*
	NVSW519A		90°	
LED FWHM / FWTM	NVSW519A Asymmetric		90* 73*	100 PC
LED FWHM / FWTM Efficiency	NVSW519A Asymmetric 95 %		y. Ja	
LED FWHM / FWTM Efficiency Peak intensity	NVSW519A Asymmetric 95 % 0.4 cd/lm		99° 786 60°	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW519A Asymmetric 95 % 0.4 cd/lm 1		30 ⁵	200 200 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White		9. 9.	20 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White		30 ⁵	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White		30 ⁵	200 200 300 600 500 600 600 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White		20°	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White ents:		30 ⁵	200 300 500 500 500 700
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White ents:		20°	200 300 500 500 500 700
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White ents:		20°	200 300 500 500 500 700
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White ents:		20°	200 300 500 500 500 700
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White ents: NVSxx19B/NVSxx19C Asymmetric		20°	200 300 500 500 500 700
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 % 0.4 cd/lm 1 White ents: NVSxx19B/NVSxx19C Asymmetric 94 % 0.6 cd/lm 1		20°	200 300 500 500 500 700
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 % 0.4 cd/lm 1 White ents: NVSxx19B/NVSxx19C Asymmetric 94 % 0.6 cd/lm 1 White		20°	200 300 500 500 500 700
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White ents: NVSxx19B/NVSxx19C Asymmetric 94 % 0.6 cd/lm 1 White		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 % 0.4 cd/lm 1 White ents: NVSxx19B/NVSxx19C Asymmetric 94 % 0.6 cd/lm 1 White		20°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW519A Asymmetric 95 % 0.4 cd/lm 1 White ents: NVSxx19B/NVSxx19C Asymmetric 94 % 0.6 cd/lm 1 White		20°	



OCDAM			
OSRAM Opto Semiconductors		90*	90*
LED	Duris S8	7	
FWHM / FWTM	Asymmetric	75* 100	75°
Efficiency	94 %		
Peak intensity	0.5 cd/lm	504 200	60*
LEDs/each optic	1		/
Light colour	White		
Required compone		400	-
Required compone	113.	X X	
		500	
		30° 15° 0° 15°	30*
OSRAM Opto Semiconductors			
		90°	90*
LED	OSLON Square PC	734	75°
FWHM / FWTM	Asymmetric		
Efficiency	96 %		60*
Peak intensity	0.6 cd/lm	400	
LEDs/each optic	1		$\langle \rangle$
Light colour	White	45° 600	45*
Required compone	nts:		/
			\mathbf{V}
		30*	30*
S ΛΜSΙ			
		90*	90*
LED	LH351Z	740	
FWHM / FWTM	Asymmetric		
Efficiency	94 %		64*
Peak intensity	0.6 cd/lm	. éq.*	64
Peak intensity LEDs/each optic	0.6 cd/lm 1	60	60*
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1 White	40 40 40	60* 45*
Peak intensity LEDs/each optic	0.6 cd/lm 1 White	6°	53.4
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1 White	6° 00	604
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1 White	64 67 60 90	604
Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1 White		60 45 30°
Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White nts:		$\left \right\rangle$
Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White nts: LUX		$\left \right\rangle$
Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White nts: LUX ROY-S26XPL2 (XP-L2)		$\left \right\rangle$
Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White nts: LUX ROY-S26XPL2 (XP-L2) Asymmetric		$\left \right\rangle$
Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White nts: LUX ROY-S26XPL2 (XP-L2) Asymmetric 94 %		$\left \right\rangle$
Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White nts: LUX ROY-S26XPL2 (XP-L2) Asymmetric		$\left \right\rangle$
Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White nts: LUX ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.4 cd/lm 1		$\left \right\rangle$
Peak intensity LEDs/each optic Light colour Required compone SCCC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1 White nts: ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.4 cd/lm 1 White		$\left \right\rangle$
Peak intensity LEDs/each optic Light colour Required compone	0.6 cd/lm 1 White nts: ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.4 cd/lm 1 White		30°
Peak intensity LEDs/each optic Light colour Required compone SCCC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1 White nts: ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.4 cd/lm 1 White		30°
Peak intensity LEDs/each optic Light colour Required compone SCCC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1 White nts: ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.4 cd/lm 1 White		30°
Peak intensity LEDs/each optic Light colour Required compone SCCC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.6 cd/lm 1 White nts: ROY-S26XPL2 (XP-L2) Asymmetric 94 % 0.4 cd/lm 1 White		30°



SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	SMJQ-D36W12Mx	
FWHM / FWTM	Asymmetric	200
Efficiency	94 %	
Peak intensity	0.6 cd/lm	40
LEDs/each optic	1	\times / / \top / \times
Light colour	White	63° 63°
Required compone	nts:	
		ole
		30° 15° 30°
SEOUL		
SEOUL SEMICONDUCTOR	SMJQ-D36W12Px	30* 95*
LED FWHM / FWTM		25* 200 75*
	Asymmetric 94 %	
Efficiency		60* 300 60*
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 200 45°
Required compone	nts:	20
		710
		30. 800
		13 0, 13
PEOUR		
		8° 80°
	Z5M3	
SEOUL SEMICONDUCTOR		90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
seoul semiconductor LED FWHM / FWTM	Z5M3 Asymmetric 94 %	
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 94 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	20 50 50 50 50 50 50 50 50 50 50 50 50 50
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1 White	20 50 50 50 50 50 50 50 50 50 50 50 50 50
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	20 50 50 50 50 50 50 50 50 50 50 50 50 50
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	20 50 50 50 50 50 50 50 50 50 50 50 50 50
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	50 ⁴ 360 50 ⁴
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.5 cd/lm 1 White nts:	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 0.5 cd/lm 1 White nts: Z8Y22	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR LED FWHM / FWTM	Asymmetric 94 % 0.5 cd/lm 1 White nts: Z8Y22 Asymmetric	
stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stout semiconductor LED FWHM / FWTM Efficiency	Asymmetric 94 % 0.5 cd/lm 1 White nts: Z8Y22 Asymmetric 94 %	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stour semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.5 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 0.6 cd/lm	
stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stout semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 0.6 cd/lm 1	
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 94 % 0.5 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 0.6 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.5 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 0.6 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 0.6 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 0.6 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.5 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 0.6 cd/lm 1 White	



r			
SEOUL			TAYEFT
SEOUL SEMICONDUCTOR	Z8Y22P		90* 90*
EED FWHM / FWTM	Asymmetric		75* 300 75*
Efficiency	94 %		
Peak intensity	94 % 0.5 cd/lm		60° 66°
LEDs/each optic			
	1 White		$X \times M \times X$
Light colour			6° <u>200</u> 6°
Required compone	ilts.		600
			710
			30° 15° 0° 15° 30°
TOSHIBA			
Leading Innovation >>>			90* 90*
LED	TL1L4		
FWHM / FWTM	Asymmetric		73°
Efficiency	94 %		
Peak intensity	0.6 cd/lm		400
LEDs/each optic	1		$\times//\top$
Light colour	White		45* 45*
Required compone	nts:		
			30* 30*
			15 ³ 1080 15°
TRIDON	liC		90* 90*
LED	RLE 2x6 3000lm HP EXC2 OTD		
FWHM / FWTM	Asymmetric		73°
Efficiency	94 %		
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		
Light colour	White		45° 45°
Required compone	nts:		
-			X X
			\times / \land \times
			30* 15 ⁵ 18 ⁵ 30*



CREE\$LED LED J Series 5050 Round LES FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components:	80°
LED J Series 5050 Round LES FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/seach optic 1 Light colour White Required components: Image: Crete Color	
FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	20 00 00 00 00 00
Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: CREECIED LED J Series 5050 Square LES 6V FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	10 10 10 10 10 10
Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	10 10 10 10 10 10 10 10 10 10
LEDs/each optic 1 Light colour White Required components:	
Light colour White Required components: CREECIED LED J Series 5050 Square LES 6V FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	01 314 01 01 01 01 01 01 01 01
Required components:	6°
CREE LED J Series 5050 Square LES 6V FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	20°
LED J Series 5050 Square LES 6V FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	yr' Wr Ger
LED J Series 5050 Square LES 6V FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	20°
LED J Series 5050 Square LES 6V FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	90° 90° 60* 60*
LED J Series 5050 Square LES 6V FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	90* 90* 60*
LED J Series 5050 Square LES 6V FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	90* 792 60* 45*
FWHM / FWTM Asymmetric Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	604
Efficiency 82 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	60*
Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	604
LEDs/each optic 1 Light colour White Required components:	
Light colour White Required components:	5*
Required components:	45*
Protective plate, glass	
30° 00 100	
	300
	90*
LED J Series 5050 Square LES 6V	
FWHM / FWTM Asymmetric	750
Efficiency 98 %	
Peak intensity 0.4 cd/lm	60*
LEDs/each optic 1	
Light colour White	65*
Required components:	
20	
80	
20- 22- 0- 22-	30*
	90*
LED XB-D	
FWHM / FWTM Asymmetric	75*
Efficiency %	\sim
Peak intensity 0.5 cd/lm	60*
LEDs/each optic 1	
Light colour White	
Required components:	
	65*
	67
70	3,
70	55



LED	XP-G2 HE	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	0.4 cd/lm	
	1	
LEDs/each optic	ı White	
Light colour	White	
Required components:		
)5	50°
LED	LUXEON 5050 Square LES	7
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.4 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	
Required components:		400
		\times
		540
		90° 500 90° 15° 90°
)S	
		90* 90*
	LUXEON H50-2	75°
FWHM / FWTM	Asymmetric	
Efficiency	90 %	604 604
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	400
Light colour	White	as at
Required components:		600
		30° 13 ⁵ 0° 15° 30°
		90* 90*
LED	LUXEON TX	
FWHM / FWTM	Asymmetric	200 75°
Efficiency	89 %	50 ⁴
Peak intensity	0.5 cd/lm	\wedge
LEDs/each optic	1	
Light colour	White	5° 6°
Required components:		
		\times / \times
1		15 ⁵ 0 ⁶ 15 ⁶



WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NV4WB35AM Asymmetric 94 % 0.4 cd/lm 1 White	94 94 95 96 96 96 96 96 96 96 96 96 96
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxE21A Asymmetric 91 % 0.6 cd/lm 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxE21A Asymmetric 93 % 0.5 cd/lm 4 White	20° 20° 20° 5° 40° 50° 40° 50° 50° 50° 50° 50° 50° 50° 5
OSRAM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	PrevaLED Brick HP IP 2x6 Asymmetric 93 % 0.5 cd/lm 1 White	



Batemataline LED OSCONO P 3737 (2W version) FWHM / FWTM Asymmetric Effodency 30 % Paak intensity 0.5 cd/m LED % cd/m Vinite Required components:			
LED OSCONIQ P 3737 (2W version) FWHM / FWTM Asymmetric Elifolency 90 % Peak Intensity 0.5 colum LED Second point White Required components:	OSRAM		
FWHM / FWTM Asymmetric Efficiency 90 % Reak intensity 0.5 c0/m LEDX/acod point 1 LEDX/acod point 1 LEDX/acod point 1 LEDX/acod point 1 Required components:			90° 90°
Efficiency 90 % Peak intensity 0.5 collm Light colour White Required components:			75°
Peak Intensity 0.5 colfm LEDXeach optic 1 LEDXeach optic 1 LEDXeach optic 1 LEDXeach optic 1 LEDXeach optic 1 Light colour White Required components:			
LEDeleach optic 1 Light colour White Required components:			50° 50°
Light colour White Required components: Vermination LED OSCONIQ P 3737 (3W version) EVMH / FVTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: PVMH / FVTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: PVMH / FVTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/m LEDs/each optic 1 Light colour White Required components: PVMH / FVTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components: PVMH / FVTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White PVMH / FVTM Asymmetric PVMH / FVTM Asymmetric PVM			400
Required components: COSRAM LED OSCONIQ P 3737 (3W version) EVMH / FVTTM Asymmetric ERevised optic 1 LED / codum Required components: ERE Components: E			X/T X X
CSCRAM LED OSCONIQ P 3737 (3W version) EVMM / FVTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/m LED OSCONIQ P 3737 (3W version) Efficiency 94 % Peak intensity 0.4 cd/m LED OSCONIQ P 3737 (3W version) Efficiency 94 % Peak intensity 0.4 cd/m LED OSCONIQ P 3737 (3W version) Efficiency 94 % Peak intensity 0.4 cd/m LED OSCONIQ P 3737 (3W version) Efficiency 94 % Peak intensity 0.4 cd/m LED OSCONIQ P 3737 (3W version) Efficiency 94 % Peak intensity 0.4 cd/m LED OSCONIQ P 3737 (3W version) Efficiency 94 % Peak intensity 0.4 cd/m LED OSCONIQ P 3737 (3W version) Efficiency 94 % Peak intensity 0.5 cd/m LED OSCONIQ P 3737 (3W version) Efficiency 94 % Peak intensity 0.5 cd/m LED OSCONIQ P 3737 (3W version) Efficiency 94 % Peak intensity 0.5 cd/m LED OSCONIQ P 3737 (3W version) Efficiency 94 % Peak intensity 0.5 cd/m LED OSCONIQ P 373 % Peak intensity 0.5 cd/m LED Sideon Offici 1 LED Side		White	45* 45*
Matematication LED OSCONIQ P 3737 (3W version) FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 od/m LED is done for the formation of the formati	Required components:		600
Matematication LED OSCONIQ P 3737 (3W version) FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 od/m LED is done for the formation of the formati			\times
Matematication LED OSCONIQ P 3737 (3W version) FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 od/m LED is done for the formation of the formati			800
Matematication LED OSCONIQ P 3737 (3W version) FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 od/m LED is done for the formation of the formati			30* 30*
Matematication LED OSCONIQ P 3737 (3W version) FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 od/m LED is done for the formation of the formati	OSRAM		
FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components:	Opto Semiconductors		90* 90*
Efficiency 93 % Peak intensity 0.5 cd/m LEDs/each optic 1 Light colour White Required components:	LED		
Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White Required components:			
LEDs/each optic 1 Light colour White Required components:	Efficiency		50* 604
Light colour White Required components: White COSCONIQ P 3737 (3W version) EVHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: COSCONIQ P 3737 (3W version) EVHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LEDbeleach optic 1 Light colour White FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LEDbeleach optic 1 Light colour White FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LEDbeleach optic 1 Light colour White FWHM / FWTM Asymmetric Efficiency 93 %		0.5 cd/lm	
Required components:			400
OSCONIQ P 3737 (3W version) FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/lm LED / Color White Required components: White COSCOME Unite Required components: SLON Square CSSRM2/CSSRM3 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LED OSLON Square CSSRM2/CSSRM3 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LED Seach optic 1 Light colour White	Light colour	White	451 454
June Semiconductors LED OSCONLP 3737 (3W version) FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	Required components:		640
June Semiconductors LED OSCONLP 3737 (3W version) FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:			
June Semiconductors LED OSCONLP 3737 (3W version) FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:			
June Semiconductors LED OSCONLP 3737 (3W version) FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:			30* 30*
June Semiconductors LED OSCONLP 3737 (3W version) FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	OSPAM		
FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components:	Opto Semiconductors		90* 90*
Efficiency 94 % Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: COSCAM Des Semiconductors LED OSLON Square CSSRM2/CSSRM3 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	LED		100
Peak intensity 0.4 cd/lm LEDs/each optic 1 Light colour White Required components: COSRAM Deposementered LED OSLON Square CSSRM2/CSSRM3 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White			
LEDs/each optic 1 Light colour White Required components: Image: Component of the second of the			50* 60*
Light colour White Required components:			
Required components:			X 400 X
OSRAM Orge Semiconductors LED OSLON Square CSSRM2/CSSRM3 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White		White	45'
OSRAM Optis Semiconductors LED OSLON Square CSSRM2/CSSRM3 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	Required components:		200
OSRAM Optis Semiconductors LED OSLON Square CSSRM2/CSSRM3 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White			000
OSRAM Optis Semiconductors LED OSLON Square CSSRM2/CSSRM3 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White			760
Optio Semiconductors Image: Constraint of the semiconductors LED OSLON Square CSSRM2/CSSRM3 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White			30* 15* 30*
Optio Semiconductors Image: Constraint of the semiconductors LED OSLON Square CSSRM2/CSSRM3 FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	OSRAM		
FWHM / FWTM Asymmetric Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White	Opto Semiconductors		90* 90*
Efficiency 93 % Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White			730 750
Peak intensity 0.5 cd/lm LEDs/each optic 1 Light colour White			
LEDs/each optic 1 Light colour White			504 504
Light colour White			/ / / / / / / / / / / / / / / / / / /
		white	45*
kequirea components:	Required components:		600
			30* 30* 30*



OSRAM Opto Semiconductors		91* 91*
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	73%
Efficiency	93 %	200
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	400
Light colour	White	45*
Required components:	winte	(45), (45),
required components.		600
		\times
		20
		30° 15° 0° 15° 30°
SAMSUN	10	
		90* 90*
LED	LH181B	210
FWHM / FWTM	Asymmetric	
Efficiency	93 %	50° 50°
Peak intensity	0.6 cd/lm	400
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required components:		
		800
		\times / \top / \times
		30* and 1860 4* 30*
сладена		
SAMSUN	16	90* 90*
LED	LH351B	
FWHM / FWTM	Asymmetric	73°
Efficiency	93 %	an and a set
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	400
Light colour	White	43°
Required components:		500
		\times / \times
		800
		30° 11° 0° 11° 30°
сладена		
SAMSUN		90* 90*
LED	LH351C	
FWHM / FWTM	Asymmetric	73°
Efficiency	93 %	ast cost
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	X / ter X
Light colour	White	61 G1
Required components:		600
		\times / \setminus \times
		200
		30*
		15° 0° 15°



SAMSUN	IG	90*90*
LED	LH351D	90°
FWHM / FWTM	Asymmetric	75%
Efficiency	92 %	
Peak intensity	0.4 cd/lm	.60*
LEDs/each optic	1	X - w
Light colour	White	
Required components:	white	45° 400 45'
required components.		
		30* 700 30* 30*
SAMSUN	IG	90° 90'
LED	LH502C	~
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.4 cd/lm	61 ⁴ 200 60 ⁴
LEDs/each optic	1	
Light colour	White	45°
Required components:		
		\times
		50
		90° 660 30° 30° 30°
SAMSUN	IG	THY FALL
LED		90* 90*
LED FWHM / FWTM	LH508B	39° 73° 100 75'
FWHM / FWTM	LH508B Asymmetric	9
FWHM / FWTM Efficiency	LH508B Asymmetric 94 %	9
FWHM / FWTM Efficiency Peak intensity	LH508B Asymmetric 94 % 0.4 cd/lm	9
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH508B Asymmetric 94 %	9
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH508B Asymmetric 94 % 0.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH508B Asymmetric 94 % 0.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH508B Asymmetric 94 % 0.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH508B Asymmetric 94 % 0.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH508B Asymmetric 94 % 0.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH508B Asymmetric 94 % 0.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH508B Asymmetric 94 % 0.4 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: scoul semiconductor LED	LH508B Asymmetric 94 % 0.4 cd/lm 1 White 2x6 5050 module - SMJD-3625012F-XX	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED FWHM / FWTM	LH508B Asymmetric 94 % 0.4 cd/lm 1 White 2x6 5050 module - SMJD-3625012F-XX Asymmetric	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seous semiconductor LED FWHM / FWTM Efficiency	LH508B Asymmetric 94 % 0.4 cd/lm 1 White 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	LH508B Asymmetric 94 % 0.4 cd/lm 1 White 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.4 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: secure semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH508B Asymmetric 94 % 0.4 cd/lm 1 White 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: secure semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH508B Asymmetric 94 % 0.4 cd/lm 1 White 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.4 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: secure semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH508B Asymmetric 94 % 0.4 cd/lm 1 White 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: secure semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH508B Asymmetric 94 % 0.4 cd/lm 1 White 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.4 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH508B Asymmetric 94 % 0.4 cd/lm 1 White 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.4 cd/lm 1	



ED 25M WHM / FVTTM Asymmetric Findency 89 % Peak Intensity 0.5 cd/m LEDs/each optic 1 ight colour White Required components:			
ED SEOUL DC 5000 6V WM / FWTM Asymmetric Efficiency 94 % Vask / merity 0.4 ddfm Lebesch opid 1 Light colour White Required components:			
WHM / FVTM Asymmetric Efficiency 94 % heak intensity 0.4 cd/m EDsteach optic 1 ajtr colour White Required components:			90* 90*
ifficiency 9 4 % Pask intensity 0.4 cd/m Eborech option Epointed option Epointed option Epointed option EPO Z5M PMM / FWTM Asymmetric Efficiency 89 % Teak intensity 0.5 cd/m Eborech option Epointed o			730 700 700
Pack Intensity 0.4 cd/m EDwiendroptie 1 igit colour White Required components: ED ZM White Asymmetric Efficiency 89% Heak Intensity 0.5 cd/m ED ZM White Required components: ED ZM Mile Colour White Required components: ED ZM Asymmetric Efficiency 90% Required components: ED ZM Asymmetric Efficiency 0.5 cd/m ED ZM ED ZM ED ZM Asymmetric Efficiency 0.5 cd/m ED ZM ED ZM Asymmetric Efficiency 0.5 cd/m ED ZM ED ZM			
EDvisancy optic 1 ight colour White Required components:			50*
ight colour White Required components: IS A service of the servi			
Required components: SAM WM / FWTM Agymmetric Efficiency 89 % Peak intensity 0.5 cd/m Ego/sech optic 1 Ight colour White Required components: SAM WM / FWTM Agymmetric Efficiency 90 % Sectors Efficiency 90 % Sectors			
Reservements ED ZSM WMM / FWTM Asymmetric Efficiency 89% Pack intensity 0.5 cd/m LEDs/acadh optic 1 jight colour White Required components: ED ZSM1/ZSM2 WMM / FWTM Asymmetric ED/acadh optic 1 jight colour White Required components: ED ZSM1/ZSM2 WMM / FWTM Asymmetric ED/acadh optic 1 jight colour White Required components: ED ZSM4 WMM / FWTM Asymmetric ED/acadh optic 1 jight colour White Required components: ED ZSM4 WMM / FWTM Asymmetric ED/acadh optic 1 jight colour White Required components: ED ZSM4 WMM / FWTM Asymmetric Efficiency 99% Pack intensity 0.5 cd/m LEDs/each optic 1 jight colour White Required components: ED ZSM4 WMM / FWTM Asymmetric Efficiency 99% Pack intensity 0.5 cd/m LEDs/each optic 1 jight colour White Required components: ED ZSM4 WMM / FWTM Asymmetric Efficiency 99% Pack intensity 0.5 cd/m LEDs/each optic 1 jight colour White Required components: ED ZSM4 WMM / FWTM Asymmetric Efficiency 99% Pack intensity 0.5 cd/m LEDs/each optic 1 jight colour White Required components: Efficiency 99% Pack intensity 0.5 cd/m LEDs/each optic 1 jight colour White Required components: Efficiency 99% Pack intensity 0.5 cd/m LEDs/each optic 1 jight colour White Required components: Efficiency 99% Pack intensity 0.5 cd/m LEDs/each optic 1 jight colour White Required components: Efficiency 99% Pack intensity 0.5 cd/m LEDs/each optic 1 Jight colour White Required components: Efficiency 99% Pack intensity 0.5 cd/m LEDs/each optic 1 Jight colour White Required components: Efficiency 99% Pack intensity 0.5 cd/m LEDs/each optic 1 Jight colour White Required components: Efficiency 99% Pack intensity 0.5 cd/m LEDs/each optic 1 Jight colour White Required components: Efficiency 1000000000000000000000000000000000000		White	45* 400 45*
Six versions ED Z5M FWH / FWTM Asymmetric Efficiency 89 % seak intensity 0.5 cd/m .ED / cd/m .ED	Required components:		
Six versions Six versions LED Z5M FWHM / FWTM Asymmetric Efficiency 89 % vesk intensity 0.5 cd/m .EDs/each optic 1 .jght colour White Required components: Six versions LED Z5M1/Z5M2 FWHM / FWTM Asymmetric Efficiency 90 % vesk intensity 0.6 cd/m .EDs/each optic 1 .jght colour White Required components: Six versions .ED Z5M4 FWHM / FWTM Asymmetric fiftiency 99 % vesk intensity 0.6 cd/m .EDs/each optic 1 .jght colour White Required components: Six versions .ED Z5M4 FWHM / FWTM Asymmetric .ifticiency 98 % vesk intensity 0.6 cd/m .EDs/each optic 1 .ight colour White Required components: 			
Six versions Six versions LED Z5M FWHM / FWTM Asymmetric Efficiency 89 % vesk intensity 0.5 cd/m .ED vesk intensity 0.5 cd/m .ED vesk intensity 0.5 cd/m .ED z5M1/Z5M2 FWHM / FWTM Asymmetric Efficiency 90 % vesk intensity 0.6 cd/m .ED vesk intensity 0.6 cd/m			000
isse semiconset LED Z5M FWHM / FWTM Asymmetric Bificiency 89 % each intensity 0.5 col/m LEDs/each optic 1 light colour White Required components: FWHM / FWTM Asymmetric ED Z5M1/Z5M2 FWHM / FWTM Asymmetric Bificiency 90 % reak intensity 0.6 col/m LEDs/each optic 1 light colour White Required components: FWHM / FWTM Asymmetric Bificiency 90 % reak intensity 0.6 col/m LEDs/each optic 1 light colour White Required components: FWHM / FWTM Asymmetric Bificiency 90 % reak intensity 0.6 col/m LEDs/each optic 1 light colour White Required components: FWHM / FWTM Asymmetric light colour White Required components: FWHM / FWTM Asymmetric LEDs/each optic 1 light colour White Required components: FWHM / FWTM Asymmetric LEDs/each optic 1 LEDs/each optic			30° 11 ³ 4 ³ 30°
isse semiconset LED Z5M FWHM / FWTM Asymmetric Selection 99 % seak intensity LED colum LED co	SEQUE		700
WHM / FWTM Asymmetric Efficiency 89 % weak intensity 0.5 col/m LEDs/each optic 1 Ight colour White Required components:	SEOUL SEMICONDUCTOR		90* 90*
findency 89 % Peak Intensity 0.5 cd/in LED/seach optic 1 ight colour White Required components:	LED	Z5M	
Peak Intensity 0.5 cd/lm LEDx/each optic 1 apt colour White Required components: Image: I	FWHM / FWTM	Asymmetric	730 700 700
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50° - 50°	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 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric 98 % 0.6 cd/lm 1	40° 60°
90 50*	SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONOUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric 98 % 0.6 cd/lm 1	40° 60°
20' 20'	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 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric 98 % 0.6 cd/lm 1	40° 60°
	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 90 % 0.6 cd/lm 1 White Z5M4 Asymmetric 98 % 0.6 cd/lm 1	40° 60°



TOSHIBA Leading Innovation >>>		92 ⁻
LED	TL1L2	100
FWHM / FWTM	Asymmetric	71
Efficiency	88 %	and the second sec
Peak intensity	0.5 cd/lm	60* 300 60*
LEDs/each optic	1	
Light colour	White	40° 700 40°
Required components:		50
		70
		30 ⁴ 30 ⁴
		20 219 9 ⁰ 40 ⁿ
TOSHIBA Leading Innovation >>>		90° 90°
LED	TL1L3	
FWHM / FWTM	Asymmetric	730 74
Efficiency	86 %	
Peak intensity	0.3 cd/lm	60 ⁴
LEDs/each optic	1	
Light colour	White	-8° - 30 - 8°
Required components:		\times
		40



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:

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