

PRODUCT DATASHEET CS14055_STRADA-IP-2X6-T2

STRADA-IP-2X6-T2

IESNA Type II (medium) beam applicable for European P-class standard pedestrian lighting and M-class roads

TECHNICAL SPECIFICATIONS:

Dimensions	71.4 x 173.0 mm
Height	9.2 mm
Fastening	screw
Ingress protection classes	IP67
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component STRADA-IP-2X6-T2 2X6-SEAL25

Туре	Material
Multi-lens	PMMA
Seal	Silicone

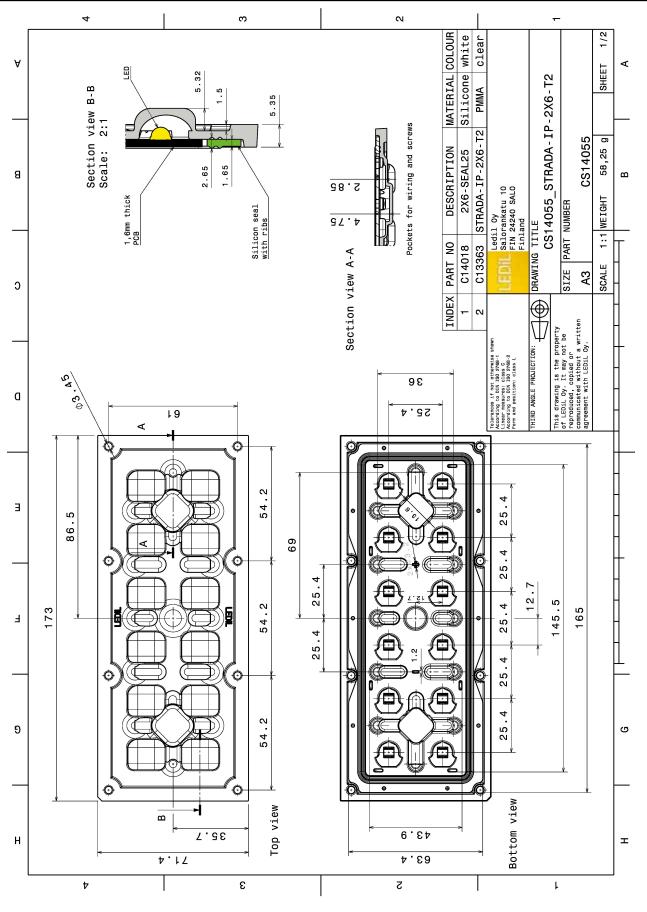
Colour
clear
white

Finish

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CS14055_STRADA-IP-2X6-T2	Multi-lens	120	40	40	8.1
» Box size: 476 x 273 x 247 mm					

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

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bridgelux. LED FWHM / FWTM	Bridgelux SMD 5050 Asymmetric	25°
Efficiency	94 %	604
Peak intensity	0.7 cd/lm	400
LEDs/each optic	1	
Light colour	White	45* 650 45*
Required compone	nts:	
ELECTRONICS		50° 50°
LED	QUICK FLUX 2x6 LED XG xxx G7+	2
FWHM / FWTM	Asymmetric	75%
Efficiency	94 %	
Peak intensity	0.9 cd/lm	. 60 ⁴ .
LEDs/each optic	1	400
Light colour	White	-65+
Required compone	nts:	600
		\times
		800
		\times / \times / \times
		/30° 15° 30°
CONET		
		N* 50*
LED	QUICK FLUX 2x6 LED XT xxx G5	90 ⁴ 27 28
LED FWHM / FWTM	Asymmetric	
LED FWHM / FWTM Efficiency	Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/lm	50* 50* 73* 70* 60* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1	50 ⁴ 73 ⁵ 60 ⁴ 60 ⁴ 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	90° 70° 60° 60° 60° 60° 60° 60° 60° 60° 60° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	23 29 29 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 1.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 94 % 1.1 cd/lm 1 White nts: XP-G	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED LED FWHM / FWTM	Asymmetric 94 % 1.1 cd/lm 1 White Ints: XP-G Asymmetric	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED LED FWHM / FWTM Efficiency	Asymmetric 94 % 1.1 cd/lm 1 White nts: XP-G Asymmetric 94 %	90* 0* 13* x
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/lm 1 White nts: XP-G Asymmetric 94 % 1 cd/lm	90* 0* 13* x
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1 White nts: XP-G Asymmetric 94 %	90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White nts: XP-G Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1 White nts: XP-G Asymmetric 94 % 1 cd/lm 1 White	



		90 ⁺ 90 ⁺
LED	XP-G2	2
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	1 cd/lm	60* 60*.
LEDs/each optic	1	40
Light colour	White	451 45 ¹ .
Required componer	its:	600
		900 30° 33°
		90* 90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	66 ³ 60 ¹
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	400
Light colour	White	45* 43*
Required componer	ts:	
		30° 800 30° 30°
LED	XP-L HD	90* 90*
FWHM / FWTM	Asymmetric	75* 200 75*
Efficiency	94 %	
Peak intensity		600 600
	0.8 cd/lm	
	0.8 cd/lm 1	30
LEDs/each optic	1	er
LEDs/each optic Light colour	1 White	
LEDs/each optic	1 White	e ² <u>60</u> 0 ²
LEDs/each optic Light colour	1 White	67 40 07
LEDs/each optic Light colour	1 White	
LEDs/each optic Light colour Required componer	1 White Its:	6° 400 90 6° 400 90 90 90 90 90 90 90 90 90 90 90 90 9
LEDs/each optic Light colour Required componer	1 White its:	80* 80 80* 80 80* 80
LEDs/each optic Light colour Required componer	1 White its: XP-L2	80 80 80 80 80 90 90 90 90 90 90 90 90 90 9
LEDS/each optic Light colour Required componer CREE LED LED FWHM / FWTM	1 White its: XP-L2 Asymmetric	
LEDs/each optic Light colour Required componer CREEELED LED FWHM / FWTM Efficiency	1 White tts: XP-L2 Asymmetric 94 %	80 80 80 80 80 90 13 ² 97 87 87
LEDs/each optic Light colour Required componer CREE LED ED FWHM / FWTM Efficiency Peak intensity	1 White tts: XP-L2 Asymmetric 94 % 0.7 cd/lm	80 80 80 80 80 90 13 ² 97 87 87
LEDs/each optic Light colour Required componer CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White tts: XP-L2 Asymmetric 94 % 0.7 cd/lm 1	
LEDs/each optic Light colour Required componer	1 White tts: XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White	80 80 80 80 80 80 80 13 80 80 80 80 80 80 80 80 80 80
LEDs/each optic Light colour Required componer CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White tts: XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White	
LEDs/each optic Light colour Required componer CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White tts: XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White	
LEDs/each optic Light colour Required componer	1 White tts: XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White	54° 500 54° 13° 37° 54° 13° 0° 13° 54° 500 54° 500 500 500 500 500 500 500 500 500 500
LEDs/each optic Light colour Required componer CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White tts: XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White	54° 500 54° 13° 37° 54° 13° 0° 13° 54° 500 54° 500 500 500 500 500 500 500 500 500 500
LEDs/each optic Light colour Required componer CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White tts: XP-L2 Asymmetric 94 % 0.7 cd/lm 1 White	54° 500 54° 13° 37° 54° 13° 0° 13° 54° 500 54° 500 500 500 500 500 500 500 500 500 500



		90* 90*
LED	– XP-L2	~ ~ ~
FWHM / FWTM	Asymmetric	75* 78*
Efficiency	94 %	
Peak intensity	0.8 cd/lm	60°
LEDs/each optic	1	400
Light colour	White	45°
Required componer	nts:	600
		\times
		900
		30* 30*
	7	15 ² 0 ^h 15 ^r
		90° 90°
	XT-E	The The
FWHM / FWTM Efficiency	Asymmetric 94 %	
Peak intensity	94 % 1 cd/lm	60* 60*
LEDs/each optic	1	400
Light colour	White	45°
Required componer		
riedanea competito		60
		X X
		800
		30° 30° 15° 30°
		9°
LED	XT-E HE	90° 200 F2
LED FWHM / FWTM	XT-E HE Asymmetric	19 ¹
LED FWHM / FWTM Efficiency	XT-E HE Asymmetric 94 %	99* 72 60* 60*
LED FWHM / FWTM Efficiency Peak intensity	XT-E HE Asymmetric	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency	XT-E HE Asymmetric 94 % 1 cd/lm	97 75 60 67 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XT-E HE Asymmetric 94 % 1 cd/lm 1 White	60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E HE Asymmetric 94 % 1 cd/lm 1 White	60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E HE Asymmetric 94 % 1 cd/lm 1 White	500 m
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XT-E HE Asymmetric 94 % 1 cd/lm 1 White	500 m
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XT-E HE Asymmetric 94 % 1 cd/lm 1 White	500 m
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XT-E HE Asymmetric 94 % 1 cd/lm 1 White nts:	500 m
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XT-E HE Asymmetric 94 % 1 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component EED ELED FWHM / FWTM	XT-E HE Asymmetric 94 % 1 cd/lm 1 White nts: EHP-2x6-IP-3535 Asymmetric	500 m
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency	XT-E HE Asymmetric 94 % 1 cd/lm 1 White nts: EHP-2x6-IP-3535 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Efficiency Peak intensity	XT-E HE Asymmetric 94 % 1 cd/m 1 White nts: EHP-2x6-IP-3535 Asymmetric 94 % 1 cd/m	60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	XT-E HE Asymmetric 94 % 1 cd/m 1 White nts: EHP-2x6-IP-3535 Asymmetric 94 % 1 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	XT-E HE Asymmetric 94 % 1 cd/lm 1 White nts: EHP-2x6-IP-3535 Asymmetric 94 % 1 cd/lm 1 White	60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	XT-E HE Asymmetric 94 % 1 cd/lm 1 White nts: EHP-2x6-IP-3535 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	XT-E HE Asymmetric 94 % 1 cd/lm 1 White nts: EHP-2x6-IP-3535 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	XT-E HE Asymmetric 94 % 1 cd/lm 1 White nts: EHP-2x6-IP-3535 Asymmetric 94 % 1 cd/lm 1 White	



LED	EHP-2x6-IP-5050	9
FWHM / FWTM	Asymmetric	750 751
Efficiency	96 %	(the second sec
Peak intensity	0.8 cd/lm	
	1	400
LEDs/each optic	u White	
Light colour Required compone		65° 650 65°
Required compone	ints.	
		30° 45 ² 0° 15° 30°
	EDS	
LED	LUXEON R	2
FWHM / FWTM	Asymmetric	75%
Efficiency	94 %	
Peak intensity	1 cd/lm	604 604
LEDs/each optic	1	
Light colour	White	
Required compone		45*
Required compone	ans.	
		30* 000 30* 30*
	EDC	
	EDS	80*
		80°
LED	LUXEON Rebel ES	9° 9°
LED FWHM / FWTM	LUXEON Rebel ES Asymmetric	35 2 7 7
LED FWHM / FWTM Efficiency	LUXEON Rebel ES Asymmetric 94 %	90° 90° 73° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	90° 90° 73° 72° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	20* 15* 0* 33* 20* 22* 22* 23* 25* 26* 26* 26* 26* 26* 26* 26* 26* 26* 26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White ents: EDS LUXEON T Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White ents: EDS LUXEON T Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MUMIL LED FWHM / FWTM Efficiency Peak intensity	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White ents: EDS LUXEON T Asymmetric 94 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Model of the second second Required compone Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White ents: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composed Required compone Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White ents: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Model of the second second Required compone Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White ents: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composed Required compone Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White ents: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composed Required compone Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White ents: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White ents: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	



LUMIL	EDS	90° 95°
LED	LUXEON V	2
FWHM / FWTM	Asymmetric	754 752
Efficiency	92 %	
Peak intensity	0.8 cd/lm	60°
LEDs/each optic	1	
Light colour	White	45*
Required compone		
		600
		700
		15 ² 0 ⁶ 15 ⁴ 36 ⁴
LUMIL	EDS	90* 92*
LED	LUXEON V2	The second secon
FWHM / FWTM	Asymmetric	772 772
Efficiency	96 %	
Peak intensity	1.1 cd/lm	60* 60*.
LEDs/each optic	1	
Light colour	White	67 67
Required compone	nts:	60
		800
		30* 30*
		10 10 10
	EDS	
		8.
LED	LUXEON XR-TX (L2T0-xxyy012M)	99 ⁴ 99 ⁴
LED FWHM / FWTM	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric	8° 20 20 20 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 %	90° 90°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm	90° 70° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1	99* 99* 99* 99* 99* 99* 99* 99* 99* 99*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White	90° 90° 70 70° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White	97 25 29 40 40 67 60 60 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White	9° 73 64 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White	33° 13' 100 13° 30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White Ints:	9° 9° 9° 9° 9° 9° 9° 9° 9° 9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White nts: EDS LUXEON Z ES Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White nts: EDS LUXEON Z ES Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White nts: EDS LUXEON Z ES Asymmetric 94 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CONTINUATION LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White nts: EDS LUXEON Z ES Asymmetric 94 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White nts: EDS LUXEON Z ES Asymmetric 94 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CONTINUATION LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White nts: EDS LUXEON Z ES Asymmetric 94 % 1.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Comparison Compar	LUXEON XR-TX (L2T0-xxyy012M) Asymmetric 94 % 1.1 cd/lm 1 White nts: EDS LUXEON Z ES Asymmetric 94 % 1.6 cd/lm 1 White	



MST Your solu	tions	20*	90*
LED	RecLED 146x45mm 2900lm 730 STRADA-IP-2x6 G1	~ ~	Ĩ
FWHM / FWTM	Asymmetric	731	75°
Efficiency	95 %		Ś
Peak intensity	1 cd/lm	60* · · · · · · · · · · · · · · · · · · ·	60*
LEDs/each optic	1	40	≤ 1
Light colour	White	45*	45 ⁴
Required compone		00	
			$\langle \rangle$
		800	$\langle \rangle$
			X
		30° 15 ⁵ 0° 10°	30*
ØNICHI/	N Contraction of the second	36*	90*
LED	NVSW219F		
FWHM / FWTM	Asymmetric	73%	75°
Efficiency	94 %		50*
Peak intensity	0.9 cd/lm	40	
LEDs/each optic	1	\times	\times
Light colour	White	-5*	45*
Required compone	ents:		
			\sum
			\sum
		30*	30*
		91 ³	90*
LED	NVSW319B	80 ⁴	90*
LED FWHM / FWTM	NVSW319B Asymmetric		90*
LED FWHM / FWTM Efficiency	NVSW319B Asymmetric 94 %		90* 78* 60*
LED FWHM / FWTM Efficiency Peak intensity	NVSW319B Asymmetric		90* 75° 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW319B Asymmetric 94 % 0.9 cd/lm 1		90* -75* -66*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White		90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White		90* 95* 66*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White		90* 755 66.4 45*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White		90* -75* 664
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White ents:		30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White ents:		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White ents:		997 - 755 - 654
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White ents:		14 16 16 16 16 16 16 16 16 16 16 16 16 16
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 %		85 86 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 % 0.8 cd/lm		St. St. St. St. St.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 % 0.8 cd/lm 1		er er
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone NICHIA Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 % 0.8 cd/lm 1 White		10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 % 0.8 cd/lm 1 White		30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone NICHIA Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 % 0.8 cd/lm 1 White		30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone NICHIA Efficiency Peak intensity LEDs/each optic Light colour	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 % 0.8 cd/lm 1 White		30*
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	NVSW319B Asymmetric 94 % 0.9 cd/lm 1 White ents: NVSW3x9A Asymmetric 94 % 0.8 cd/lm 1 White		30°*



A		
MNICHI		90* 90*
LED	NVSW519A	4
FWHM / FWTM	Asymmetric	75°
Efficiency	96 %	
Peak intensity	0.9 cd/lm	60* 60*
LEDs/each optic	1	40
Light colour	White	45* 45*
Required compone	its:	500
		\times \land \times
		800
		30° 30°
OCDAM		13 ⁵ 0 ⁶ 19 ⁶
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square PC	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	40
Light colour	White	61 61
Required compone	its:	500
		\times / \times
		810
		30° 15° 30°
PHILIP	20	
	Fortimo FastFlex LED 2x6 DP G4	90* 90*
LED FWHM / FWTM	Asymmetric	750 750
Efficiency	94 %	
Peak intensity		60%
	1 cd/lm 1	
LEDs/each optic	1	
LEDs/each optic Light colour	1 White	4 ²
LEDs/each optic	1 White	er 67 68
LEDs/each optic Light colour	1 White	er
LEDs/each optic Light colour	1 White	6° 6°
LEDs/each optic Light colour Required componer	1 White Its:	20 ¹ 20 ¹ 20 ¹ 20 ¹ 20 ¹ 20 ¹
LEDs/each optic Light colour Required componer	1 White Its:	201 202
LEDs/each optic Light colour Required componer	1 White hts:	201 202
LEDs/each optic Light colour Required componed	1 White its: S Fortimo FastFlex LED 2x6 DP G5	201 202
LEDs/each optic Light colour Required componen PHILLP LED FWHM / FWTM	1 White hts:	201 202
LEDs/each optic Light colour Required componen PHILLP LED FWHM / FWTM Efficiency	1 White its: S Fortimo FastFlex LED 2x6 DP G5 Asymmetric	201 202
LEDs/each optic Light colour Required componen PHILLED FWHM / FWTM Efficiency Peak intensity	1 White Its: S Fortimo FastFlex LED 2x6 DP G5 Asymmetric 96 %	201 202
LEDs/each optic Light colour Required componen PHILLP LED FWHM / FWTM Efficiency	1 White tts: S Fortimo FastFlex LED 2x6 DP G5 Asymmetric 96 % 1 cd/lm	20-
LEDs/each optic Light colour Required componen PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White tts: S Fortimo FastFlex LED 2x6 DP G5 Asymmetric 96 % 1 cd/lm 1 White	80° 20° 20° 20° 20° 20° 20° 20° 2
LEDs/each optic Light colour Required componen PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White tts: S Fortimo FastFlex LED 2x6 DP G5 Asymmetric 96 % 1 cd/lm 1 White	80°
LEDs/each optic Light colour Required componen PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White tts: S Fortimo FastFlex LED 2x6 DP G5 Asymmetric 96 % 1 cd/lm 1 White	80° 20° 20° 20° 20° 20° 20° 20° 2
LEDs/each optic Light colour Required componen PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White tts: S Fortimo FastFlex LED 2x6 DP G5 Asymmetric 96 % 1 cd/lm 1 White	80°



SAMSL	JNG	90* P
LED	HiLOM RH12 (LH351C)	27
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	1.1 cd/lm	604
LEDs/each optic	1	
Light colour	White	45*
Required componer		600
		300
		/ 30° 1000 10° 10° 3
SAMSL	JNG	90*
LED	HiLOM RM12 ZP (LH502C)	4
FWHM / FWTM	Asymmetric	775
Efficiency	95 %	
Peak intensity	0.7 cd/lm	607 400 °
LEDs/each optic	1	$\perp \times / / \top \setminus \times$
Light colour	White	45* 660 4
Required componer	nts:	
0.0.0.0.0		3 ⁰ 15 ⁵ 1000 15 ⁴ 3
SAMSL	JNG	90*
LED	LH351Z	91
FWHM / FWTM	Asymmetric	75
	Asymmetric 94 %	8° 2 · · · · · · · · · · · · · · · · · ·
Efficiency		
Efficiency Peak intensity LEDs/each optic	94 %	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.1 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	94 % 1.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.1 cd/lm 1 White nts:	
Efficiency Peak intensity LEDs/each optic Light colour Required componen	94 % 1.1 cd/lm 1 White nts: LUX	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.1 cd/lm 1 White nts: LUX BALAM-VP-5250-750-36	
Efficiency Peak intensity LEDs/each optic Light colour Required componen	94 % 1.1 cd/lm 1 White nts: LUX BALAM-VP-5250-750-36 Asymmetric	
Efficiency Peak intensity LEDs/each optic Light colour Required componen SCIO LED FWHM / FWTM Efficiency	94 % 1.1 cd/lm 1 White nts: LUX BALAM-VP-5250-750-36 Asymmetric 96 %	
Efficiency Peak intensity LEDs/each optic Light colour Required component S S C I O LED FWHM / FWTM Efficiency Peak intensity	94 % 1.1 cd/lm 1 White nts: LUX BALAM-VP-5250-750-36 Asymmetric 96 % 0.9 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required componen SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 1.1 cd/lm 1 White nts: LUX BALAM-VP-5250-750-36 Asymmetric 96 % 0.9 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.1 cd/lm 1 White nts:	
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1.1 cd/lm 1 White nts:	
Efficiency Peak intensity LEDs/each optic Light colour Required component SCIO LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.1 cd/lm 1 White nts:	
Efficiency Peak intensity LEDs/each optic Light colour Required component S S C I O LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.1 cd/lm 1 White nts:	



SCIO		NY M
		90* 90*
LED FWHM / FWTM	ROY-S26XPL2 (XP-L2)	75*
Efficiency	Asymmetric 94 %	
Peak intensity	94 % 0.8 cd/lm	-50 ⁴ 60 ⁴
		400
LEDs/each optic Light colour	1 White	
Required componer		45* 600 43 ⁺
Required componer	lo.	
		800
		\times / T \ λ
		30° 15° 30°
SCIO	LUX	IN FTI
LED	XLE-S22C4XTEHE (XT-E HE)	21
FWHM / FWTM	Asymmetric	254 200 752
Efficiency	94 %	S A A A
Peak intensity	1 cd/lm	.60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	5° 00 50
Required componer		\times
		80
		1000
		30° 15° 30°
SCIO	LUX	90* 90* 90*
LED	XLE-S26XHP35 (XHP35 HD)	
FWHM / FWTM	Asymmetric	75+ 000 75*
Efficiency	94 %	
Peak intensity		60* / / ev*
i can interisity	0.7 cd/lm	
LEDs/each optic	0.7 cd/lm 1	
		- 20
LEDs/each optic	1 White	200 400 570
LEDs/each optic Light colour	1 White	20
LEDs/each optic Light colour	1 White	20 40 90
LEDs/each optic Light colour	1 White	20 40 50 60 60 70 70 30 ⁴
LEDs/each optic Light colour Required componer	1 White	
LEDs/each optic Light colour	1 White	20°
LEDs/each optic Light colour Required componer	1 White	9° 90 9° 90
LEDS/each optic Light colour Required componer second semiconductor	1 White ts:	50 60 60 60 70 70 70 70 70 70 70 70 70 7
LEDS/each optic Light colour Required componen seoul semiconductor LED	1 White ts: 2x6 5050 module - SMJD-3625012F-XX	20 40 50 60 60 70 70 70 70 70 70 70 70 70 7
LEDS/each optic Light colour Required componen seoul semiconductor LED FWHM / FWTM	1 White ts: 2x6 5050 module - SMJD-3625012F-XX Asymmetric	
LEDS/each optic Light colour Required componer second semiconductor LED FWHM / FWTM Efficiency	1 White ts: 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 %	
LEDs/each optic Light colour Required componen stout stanconductor LED FWHM / FWTM Efficiency Peak intensity	1 White ts: 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.7 cd/lm	
LEDs/each optic Light colour Required component stour semicorbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White ts: 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.7 cd/lm 1 White	
LEDs/each optic Light colour Required componen SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ts: 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.7 cd/lm 1 White	
LEDs/each optic Light colour Required componen SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ts: 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.7 cd/lm 1 White	
LEDs/each optic Light colour Required componen SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White ts: 2x6 5050 module - SMJD-3625012F-XX Asymmetric 94 % 0.7 cd/lm 1 White	



SEOUL		
	SMJQ-D36W12Mx	90* 90*
LED FWHM / FWTM		750 750
	Asymmetric 93 %	
Efficiency Peak intensity	93 % 0.9 cd/lm	50° 400 50°
	1	
LEDs/each optic Light colour	I White	
Required compone		6° 6'
Required compone	115.	200
		30° 15° 30°
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	SMJQ-D36W12Px	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	.50° 50*
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	400
Light colour	White	451 451
Required compone	ints:	600
		30° 800 30° 30°
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z5M3	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60° 601
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	\times
Light colour	White	45°
Required compone	nts:	
		80
		30° 15° 30°
SEQUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z8Y22	
FWHM / FWTM	Asymmetric	20° 20° 70°
Efficiency	93 %	50° 60°
Peak intensity	0.9 cd/lm	X/T X
LEDs/each optic	1	
Light colour	White	451 451
Required compone		80
		00
		89
		90 1000 30 ¹



Г		
		90*
	Z8Y22P	2
FWHM / FWTM	Asymmetric	751 751
Efficiency	94 %	2 - the
Peak intensity	0.9 cd/lm	50 ^x 60 ^x
LEDs/each optic	1	400
Light colour	White	45*
Required compone	ents:	
		660
		\times
		800
		30° 15° 30°
TOSHIBA Leading Innovation »		90* 90*
LED	TL1L4	5
FWHM / FWTM	Asymmetric	75* 75*
Efficiency	93 %	
Peak intensity	1 cd/lm	60° X 604
LEDs/each optic	1	460
Light colour	White	5° 6*
Required compone	ents:	
		500
		\times
		50° 000 30°
		15 ³ 0 ⁴ 15 ⁴
TRIDON	NIC	90° 90°
LED	RLE 2x6 3000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	75%
Efficiency	94 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	\times / \square \times
Light colour	White	451 631
Required compone	ents:	
		80
		30* 30*
		15° 0° 15°



		<u>90</u> *
LED	J Series 5050 Square LES 6V	4
FWHM / FWTM	Asymmetric	75° 78°
Efficiency	93 %	
Peak intensity	0.6 cd/lm	60*
LEDs/each optic		X / T X X
Light colour	White	451 451
Required components:		640
		30* 30*
		13, 0, 15,
	VUDGE UD	90° 90°
	XHP35 HD	739
FWHM / FWTM	Asymmetric	
Efficiency	88 %	50* 60
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	400
Light colour	White	45*
Required components:		600
		X X
		800
		15 ² 0 ⁰ 10 ⁰
		90* 90*
LED	XHP35 HI	
FWHM / FWTM	Asymmetric	75°
Efficiency	90 %	
Peak intensity	0.7 cd/lm	50" 504
LEDs/each optic	1	40
Light colour	White	51 51
Required components:		
		\times
		800
		\times / \setminus λ
		30° 15° 0° 15° 30°
LED	XP-G2 HE	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		



	5	
		90* 90*
LED	LUXEON 5050 Round LES	75%
FWHM / FWTM	Asymmetric	
Efficiency	90 %	. 60*
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	400
Light colour	White	· · · · · · · · · · · · · · · · · · ·
Required components:		000
		\times / \setminus \times
		200
		30* <u>13</u> ° 0° 13* 30*
)S	00 ⁺
LED	LUXEON 5050 Square LES	2
FWHM / FWTM	Asymmetric	.75 75
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	40
Light colour	White	451 55
Required components:		
		600
		\times
		130" 30" 30" 30"
COMILED)S	90° 90°
		50° 51°
	LUXEON TX Asymmetric	90° 90°
LED	LUXEON TX	99 ²
LED FWHM / FWTM	LUXEON TX Asymmetric	
LED FWHM / FWTM Efficiency	LUXEON TX Asymmetric 88 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON TX Asymmetric 88 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1 White NF3W585AR	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1 White NF3W585AR Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1 White NF3W585AR Asymmetric 90 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: EXAMPLANCE EXAMPLANCE	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1 White NF3W585AR Asymmetric 90 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1 White NF3W585AR Asymmetric 90 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1 White NF3W585AR Asymmetric 90 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1 White NF3W585AR Asymmetric 90 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1 White NF3W585AR Asymmetric 90 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON TX Asymmetric 88 % 0.7 cd/lm 1 White NF3W585AR Asymmetric 90 % 0.7 cd/lm 1	



ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NV4WB35AM Asymmetric 94 % 0.7 cd/lm 1	23 23 20 20 20 20 20 20 20 20 20 20 20 20 20
Light colour Required components:	White	20° 0° 10° 20°
Μ ΝΙCΗΙΛ		50° 50°
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	NVSW219D Asymmetric 94 % 1 White	5° 60 6°
		20° 12° 0° 12° 0°
	NVSxE21A	50° 50°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.9 cd/lm 1 White	73 64 60 65 60 60 67
		20° 10° 20° 20° 20°
NICHIA LED FWHM / FWTM	NVSxE21A Asymmetric	20 20 20 20 20 20 20 20 20 20 20 20 20 2
Efficiency Peak intensity LEDs/each optic Light colour	91 % 0.9 cd/lm 1 White	
Required components:		20 20 20 20 20 20 20 20 20 20



OSRAM		
LED	PrevaLED Brick HP IP 2x6	90* 90*
FWHM / FWTM	Asymmetric	750 750
Efficiency	93 %	
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required components:	white	45° 45°
required components.		
		900
		\times / T \ λ
		30° 15° 0° 15° 30°
OSRAM Opto Semiconductors		90* 90*
LED	Duris S8	
FWHM / FWTM	Asymmetric	734 78
Efficiency	94 %	
Peak intensity	0.6 cd/lm	50* 60*
LEDs/each optic	1	400
Light colour	White	45'
Required components:		
		510
		(30°) 30°)
		15 ⁵ 0 ⁶ 15 ⁵
OSRAM Onto Semiconductors		6, 32, 0, 10,
Opto Semiconductors	OSCONIO P 3737 (2W version)	90. 25, 0, 72.
Opto Semiconductors	OSCONIQ P 3737 (2W version) Asymmetric	123 00 125 00 100 100 100 100 100 100 100 100 100
opto Semiconductors LED FWHM / FWTM	OSCONIQ P 3737 (2W version) Asymmetric 90 %	22 ³ 4 ³ 13 ³
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.8 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ODSRAM Opto Semiconductors LED	Asymmetric 90 % 0.8 cd/lm 1 White OSCONIQ P 3737 (3W version)	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Peak intensity LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency	Asymmetric 90 % 0.8 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.8 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 93 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.8 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 93 % 0.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.8 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 93 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.8 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 93 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.8 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 93 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.8 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 93 % 0.7 cd/lm 1	



OSRAM Opto Semiconductors		
LED	OSCONIQ P 3737 (3W version)	× ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
FWHM / FWTM	Asymmetric	73°
Efficiency	93 %	
		60* 60*
Peak intensity	0.7 cd/lm	400
LEDs/each optic	1	\times / / \wedge \times
Light colour	White	(5°
Required components:		60
		\times
		200
		30* 17° 30°
OSRAM		
Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	210
FWHM / FWTM	Asymmetric	
Efficiency	93 %	50° 500
Peak intensity	0.7 cd/lm	40
LEDs/each optic	1	\times
Light colour	White	45° 45°
Required components:		
		800
		30*
DUUUDC		
PHILIPS		
		90* 90*
LED	Fortimo FastFlex LED 2x6 DPX G4	90° 91°
		23
LED	Fortimo FastFlex LED 2x6 DPX G4	
LED FWHM / FWTM	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric	
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 %	
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm	6°. 6°. 6°. 6°. 6°. 6°. 6°. 6°.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1	27 23 64 67 67 60 67 67 60 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1	23 23 40 40 40 40 40 40 40 40 40 40 40 40 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1	60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1 White	23 23 23 24 25 25 25 25 25 25 25 25 25 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1 White G LH351C Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SANNSUN LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1 White G LH351C Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1 White G LH351C Asymmetric 94 % 0.7 cd/lm 1	50 50 50 50 50 50 50 50 50 50
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	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1 White G LH351C Asymmetric 94 % 0.7 cd/lm 1	50 50 50 50 50 50 50 50 50 50
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	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1 White G LH351C Asymmetric 94 % 0.7 cd/lm 1	50 50 50 50 50 50 50 50 50 50
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	Fortimo FastFlex LED 2x6 DPX G4 Asymmetric 88 % 0.8 cd/lm 1 White G LH351C Asymmetric 94 % 0.7 cd/lm 1	10 10 10 10 10 10 10 10 10 10



0.		
SAMSUN	IG	90* 90*
LED	LH351D	21
FWHM / FWTM	Asymmetric	730
Efficiency	93 %	20
Peak intensity	0.6 cd/lm	- 66 ⁴
LEDs/each optic	1	400
Light colour	White	45*
Required components:		\times
		640
		\times / \setminus \times
		30* <u>13</u> ⁵ 0 ⁶ 15* 30*
SAMSUN	IG	
LED	LH502D	50° 50°
FWHM / FWTM	Asymmetric	736 700
Efficiency	94 %	
Peak intensity	0.6 cd/lm	50° 60°.
LEDs/each optic	1	40
Light colour	White	451 531
Required components:		
		200
(15 ⁵ 0 ⁶ 1 ⁵
SEOUL		
		90* 90*
SEOUL SEMICONDUCTOR	Acrich MJT 4040	50° 50°
	Acrich MJT 4040 Asymmetric	175
seoul semiconductor LED	Acrich MJT 4040 Asymmetric 91 %	23 00 02 02 02 02 02 02 02 02 02 02 02 02
seoul semiconductor LED FWHM / FWTM	Asymmetric	
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 91 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.9 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.9 cd/lm 1	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.9 cd/lm 1	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.9 cd/lm 1	52 ⁻ 52 ⁻ 64 ⁻ 64 ⁻ 60 60 67 60 67 67 67 67 67 67 67 67 67 67
seoul semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.9 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.9 cd/lm 1	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.9 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 0.9 cd/lm 1 White SEOUL DC 3030C	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stoul semiconductor LED FWHM / FWTM	Asymmetric 91 % 0.9 cd/lm 1 White SEOUL DC 3030C Asymmetric	
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 91 % 0.9 cd/lm 1 White SEOUL DC 3030C Asymmetric 94 %	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 0.9 cd/lm 1 White SEOUL DC 3030C Asymmetric 94 % 0.8 cd/lm	
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.9 cd/lm 1 White SEOUL DC 3030C Asymmetric 94 % 0.8 cd/lm 1	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.9 cd/lm 1 White SEOUL DC 3030C Asymmetric 94 % 0.8 cd/lm	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.9 cd/lm 1 White SEOUL DC 3030C Asymmetric 94 % 0.8 cd/lm 1	
stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Stoul SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 0.9 cd/lm 1 White SEOUL DC 3030C Asymmetric 94 % 0.8 cd/lm 1	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 0.9 cd/lm 1 White SEOUL DC 3030C Asymmetric 94 % 0.8 cd/lm 1	



SEOUL		
		90* 90*
	SEOUL DC 5050 6V	75°
FWHM / FWTM	Asymmetric	
Efficiency	94 %	604 601
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	40
Light colour	White	45. 43.
Required components:		600
		30°
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
		en la
LED	Z5M	73°
FWHM / FWTM	Asymmetric	
Efficiency	89 %	.60 ⁴ 60 ⁴
LEDs/each optic	1	
Light colour	White	45° 660 55°
Required components:		
		800
		\times / \top / \times
		1000
		30*
		13 ⁰ 0 ⁰ 13 ⁰
SEOUL		
SEOUL SEMICONDUCTOR	75M4/75M2	90 ¹ 90 ² 90 ² 12 ²
seoul semiconductor LED	Z5M1/Z5M2	100 00 100 00 100 00 100 00 100 00 100 00
seoul semiconductor LED FWHM / FWTM	Asymmetric	12 ³ 0 ⁴ 12 ³
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 90 %	50° 0° 15° 50° 0° 15° 50° 0° 15°
scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 1 cd/lm	15 ¹ 0 ¹ 15 ¹
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 1 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 1 cd/lm	15 ³ 0 ⁴ 15 ³
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 1 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 1 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 1 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 1 cd/lm 1	12 ³ 0 ⁴ 12 ³
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 1 cd/lm 1	
SEOUL SEARCONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 1 cd/lm 1 White	
SEOUL SEARCONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEARCONDUCTOR LED	Asymmetric 90 % 1 cd/lm 1 White Z5M4	
SEOUL SEARCONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEARCONDUCTOR LED FWHM / FWTM	Asymmetric 90 % 1 cd/lm 1 White Z5M4 Asymmetric	
SEOUL SEARCONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEARCONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 90 % 1 cd/lm 1 White Z5M4 Asymmetric 94 %	
SEOUL SEARCONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEARCONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 1 cd/lm 1 White Z5M4 Asymmetric 94 % 0.8 cd/lm	
SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 1 cd/lm 1 White Z5M4 Asymmetric 94 % 0.8 cd/lm 1	
SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 1 cd/lm 1 White Z5M4 Asymmetric 94 % 0.8 cd/lm	
SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 1 cd/lm 1 White Z5M4 Asymmetric 94 % 0.8 cd/lm 1	
SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 1 cd/lm 1 White Z5M4 Asymmetric 94 % 0.8 cd/lm 1	
SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 1 cd/lm 1 White Z5M4 Asymmetric 94 % 0.8 cd/lm 1	
SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SENICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 1 cd/lm 1 White Z5M4 Asymmetric 94 % 0.8 cd/lm 1	



TOSHIBA Leading Innovation >>>		90* 90*
LED	TL1L2	
FWHM / FWTM	Asymmetric	73°
Efficiency	88 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		eie -
		30° - 12° - 13° - 30°
TOSHIBA Leading Innovation >>>		90* 90*
LED	TL1L3	23
FWHM / FWTM	Asymmetric	73°
Efficiency	86 %	- Ampine
Peak intensity	0.6 cd/lm	60°
LEDs/each optic	1	36
Light colour	White	45* 460 45*
Required components:		500 200 200 200 200 200 200 200 200 200



GENERAL INFORMATION:

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

MATERIALS:

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

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