

PRODUCT DATASHEET C13300_STRADA-2X2-T2

STRADA-2X2-T2

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

TECHNICAL SPECIFICATIONS:

Dimensions Height Fastening ROHS compliant 50.0 x 50.0 mm 7.7 mm glue, pin, screw yes (i)



MATERIAL SPECIFICATIONS:

Component STRADA-2X2-T2

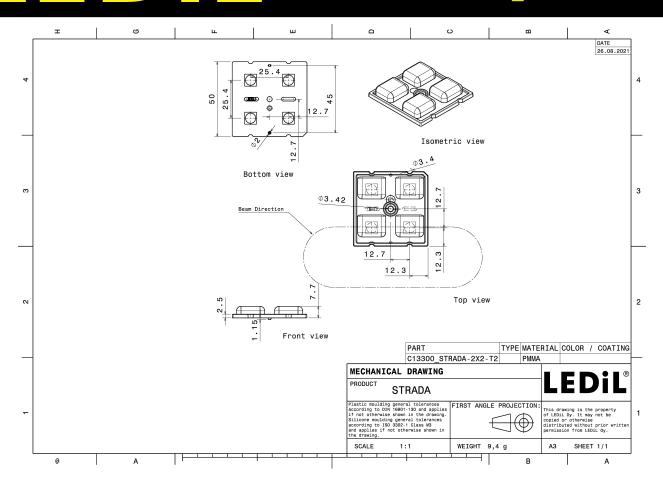
Туре
Multi-lens

Material	Colour	Finish
PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13300_STRADA-2X2-T2	800	160	160	8.3
» Box size: 480 x 280 x 300 mm				

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



bridgetux. LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Bridgelux SMD 5050 Asymmetric 94 % 0.7 cd/lm 1 White hts:	25 ¹ 25 ¹ 25 ¹ 25 ¹ 26 ¹ 26 ¹ 26 ¹ 26 ¹ 26 ¹ 26 ¹ 27 ¹ 26 ¹ 27 ¹ 28
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	QUICK FLUX XTP 2x4 xxx LS G5 Asymmetric 94 % 1 cd/lm 1 White hts:	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
		00 35 [°] 0 [°] 55 [°] 35 [°]
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	QUICK FLUX XTP 2x6 xxx LS G5 Asymmetric 94 % 1 cd/Im 1 White	
Required componer		500 900 33° 13' 150 13' 33'
CREE LED EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XB-D Asymmetric 94 % 1.1 cd/m 1 White	



		90* 90*
LED	XD16	3
FWHM / FWTM	Asymmetric	730 750
Efficiency	94 %	the second secon
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	4	400
Light colour	White	45'
Required componer		
		\times / \setminus \times
		800
		\times / \setminus \times
		30 ⁶ 12 ⁵ 0 ⁶ 10 ⁵ 30 ⁶
		90* 90*
LED	XD16	
FWHM / FWTM	Asymmetric	73°
Efficiency	94 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	X A
Light colour	White	45' 6)
Required componer	nts:	00
		X/T/X
		-30° 1200 30° 20° 30°
1		
		10 ⁻
LED	XM-L	90° 90° 70° 70° 70°
LED FWHM / FWTM	XM-L Asymmetric	95°
LED FWHM / FWTM Efficiency	XM-L Asymmetric 94 %	92 23 60 ¹ 60 ²
LED FWHM / FWTM Efficiency Peak intensity	XM-L Asymmetric 94 % 0.8 cd/m	97 734 64 64 65 65 65
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XM-L Asymmetric 94 % 0.8 cd/m 1	37 ³ 7 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/m 1 White	99 75 64 67 60 60 67 75 60 60 75 75 60 75 75 75 75 75 75 75 75 75 75 75 75 75
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XM-L Asymmetric 94 % 0.8 cd/m 1 White	37 ³ 7 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/m 1 White	33 ³ 0 ⁴ 0 ⁴ 0 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/m 1 White	33 ³ 0 ⁴ 0 ⁴ 0 ⁵
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/m 1 White	37 ³ 7 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XM-L Asymmetric 94 % 0.8 cd/lm 1 White ts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XM-L Asymmetric 94 % 0.8 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XM-L Asymmetric 94 % 0.8 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XM-L Asymmetric 94 % 0.8 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XM-L Asymmetric 94 % 0.8 cd/lm 1 White hts: XM-L2 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XM-L Asymmetric 94 % 0.8 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XM-L Asymmetric 94 % 0.8 cd/lm 1 White hts: XM-L2 Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/m 1 White tts: XM-L2 Asymmetric 94 % 0.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XM-L Asymmetric 94 % 0.8 cd/m 1 White tts: XM-L2 Asymmetric 94 % 0.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/m 1 White tts: XM-L2 Asymmetric 94 % 0.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/m 1 White tts: XM-L2 Asymmetric 94 % 0.7 cd/m 1 White	



		91* 91*
LED	XM-L3	
FWHM / FWTM	Asymmetric	730 780
Efficiency	96 %	2 Total C
Peak intensity	0.9 cd/lm	.504
LEDs/each optic	1	
Light colour	White	$X / / T \setminus X$
Required componer		e. e.
Required componer		600
		\times / \times
		800
		30° 15° 33°
		50°
LED	XP-G	21
FWHM / FWTM	Asymmetric	720 770
Efficiency	94 %	
Peak intensity	1.1 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required componer		\times / \times
		000
		\times
		1000
		20* 15 ⁵ 0 ⁶ 15* 20*
		90* 90*
	XP-G2	99° 99°
		97 - 97 79 - 72
LED	XP-G2	97°
LED FWHM / FWTM Efficiency	XP-G2 Asymmetric	5° 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM	XP-G2 Asymmetric 91 %	99 ⁷ 99 ⁷ 60 ⁴ 60 ⁴ 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity	XP-G2 Asymmetric 91 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G2 Asymmetric 91 % 1 cd/lm 1 White	95° 90° 39° 90° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 Asymmetric 91 % 1 cd/lm 1 White	97° 90° 75° 00° 75° 60° 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 Asymmetric 91 % 1 cd/lm 1 White	99° 99° 60° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 Asymmetric 91 % 1 cd/lm 1 White	99° 90° 5° 90° 6° 6° 6° 6° 6° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G2 Asymmetric 91 % 1 cd/lm 1 White its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 Asymmetric 91 % 1 cd/lm 1 White its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G2 Asymmetric 91 % 1 cd/lm 1 White its:	99 ⁵ 97 99 ⁵ 97 99 ⁵ 97 99 ⁶ 90 99 ⁶ 97 99 ⁶ 97 99 ⁶ 97 99 ⁷ 97 97 97 97 97 97 97 97 97 97 97 97 97 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G2 Asymmetric 91 % 1 cd/lm 1 White tts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G2 Asymmetric 91 % 1 cd/lm 1 White tts: XP-G2 HE	80* 80*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G2 Asymmetric 91 % 1 cd/lm 1 White tts: XP-G2 HE Asymmetric	80* 80*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G2 Asymmetric 91 % 1 cd/lm 1 White tts: XP-G2 HE Asymmetric 94 %	80* 80*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G2 Asymmetric 91 % 1 cd/lm 1 White tts: XP-G2 HE Asymmetric 94 % 0.8 cd/lm	80* 80*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G2 Asymmetric 91 % 1 cd/lm 1 White tts: XP-G2 HE Asymmetric 94 % 0.8 cd/lm 1 White	90 ⁴ 90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 Asymmetric 91 % 1 cd/lm 1 White tts: XP-G2 HE Asymmetric 94 % 0.8 cd/lm 1 White	80* 80*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 Asymmetric 91 % 1 cd/lm 1 White tts: XP-G2 HE Asymmetric 94 % 0.8 cd/lm 1 White	90 ⁴ 90 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 Asymmetric 91 % 1 cd/lm 1 White tts: XP-G2 HE Asymmetric 94 % 0.8 cd/lm 1 White	80* 80*



CREE XP-G3 LED XP-G3 Filterry 95 % Peak intensity 1-200 LEDSexth optic 1 Light colour White Required components:			
LED XP-G3 FWHM / FWTM Asymmetric Efficiency 98% Peak intensity 1 dd/m LEDs/each optic 1 Lght colour White Required components: CREE \$ LED LED XP-LHD FWHM / FWTM Asymmetric Efficiency 94% Required components: CREE \$ LED LED XP-LHI FWMM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 dd/m LEDs/each optic 1 Lght colour White Required components: CREE \$ LED LED XP-LHI FWMM / FWTM Asymmetric Efficiency 94% Peak intensity 1.1 dd/m LEDs/each optic 1 Lght colour White Required components: CREE \$ LED LED XP-L HI FWMM / FWTM Asymmetric Efficiency 94% Peak intensity 0.1 dd/m Lght colour White Required components: CREE \$ LED LED XP-L HI FWMM / FWTM Asymmetric Efficiency 94% Peak intensity 0.1 dd/m Lght colour White Required components: CREE \$ LED LED XP-L2 FWMM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 dd/m Lght colour White			
FWHM FWTM Asymmetric Efficiency 96 % Peak intensity 1 cd/m LEDs/each optic 1 Light colour White Required components: Image: Component State S			× ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
Efficiency 96 % Peak intensity 1 cd/m Light colour White Required components: Image: Components of the component of the components of the components of the component of the compon			750 750
Peak intensity 1 cd/m LEDs/each optic 1 LEDs/each			
LEDs/each optic 1 Light colour White Required components:	-		604
Light colour White Required components: CREE LED LED XP-L HD FVHM / FVTM Asymmetric Efficiency 94% Peak intensity 0.8 ad/m LEDs/each optic 1 Light colour White Required components: CREE LED LED XP-L HI FVHM / FVTM Asymmetric Efficiency 94% Peak intensity 1.1 ad/m LEDs/each optic 1 Light colour White Required components: CREE LED LED XP-L HI FVHM / FVTM Asymmetric Efficiency 94% Peak intensity 0.8 ad/m LEDs/each optic 1 Light colour White Required components:	-		400
Required components: Image: components of the second s			
CREE\$LED LD XP-L HD FVMM / VVM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour While Required components: Image: Component State Sta			
LED XP-L HD FWHM / FVTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components: CREE CLED LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: CREE CLED LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs XP-L2 FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs XP-L2 FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs XP-L2 FWHM / FWTM Asymmetric Efficiency 94%	··· · · · · · · · · · · · · · · · · ·	-	\times
LED XP-L HD FWHM / FVTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components: CREE CLED LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: CREE CLED LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs XP-L2 FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs XP-L2 FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs XP-L2 FWHM / FWTM Asymmetric Efficiency 94%			810
LED XP-L HD FWHM / FVTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components: CREE CLED LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: CREE CLED LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs XP-L2 FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs XP-L2 FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs XP-L2 FWHM / FWTM Asymmetric Efficiency 94%			\times / \times /
LED XP-L HD FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required componentic Efficiency 94% Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required componentic Efficiency 94% Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required componentic Efficiency 94% Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White HI S S cd/m LEDs/each optic 1 Light colour White HI S S cd/m LEDs/each optic 1 LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs/each optic 1 LED XP-L2 FWHM / FWTM Symmetric Efficiency 94% Peak intensity 0.8 cd/m LEDs/each optic 1 LEDs/each optic 1			30° 15° 30°
FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 dd/m LEDs/each optic 1 Light colour White Required components: CREECLED LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: CREECLED LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components:			90* 90*
Efficiency 94 % Peak Intensity 0.8 cd/lm LEDs/each optic 1 Light colour White Required components: CREE\$LED LED XP-L HI FWIM / FWTM Asymmetric Efficiency 94 % Peak Intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: CREE\$LED LED XP-L2 FWIM / FWTM Asymmetric Efficiency 94 % Peak Intensity 0.8 cd/lm LEDs/each optic 1 LED XP-L2 FWIM / FWTM Asymmetric Efficiency 94 % Peak Intensity 0.8 cd/lm LEDs/each optic 1 LED XP-L2 FWIM / FWTM Asymmetric Efficiency 94 % Peak Intensity 0.8 cd/lm LEDs/each optic 1 LEDs/each optic 1 LED LED LED LED LED LED LED LED LED LED	LED	XP-L HD	
Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components: LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: CREESIED LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White Required components:	FWHM / FWTM	Asymmetric	75*
LEDs/each optic 1 Light colour White Required components: CREECLED LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: CREECLED LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White	Efficiency	94 %	
Light colour White Required components: LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: CREESLED LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/m LEDs/each optic 1 Light colour White	Peak intensity	0.8 cd/lm	60° 60°
Required components: Image: components of the second s	LEDs/each optic	1	400
CREE LED LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components: Image: Component State Stat	Light colour	White	45* 45
LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: CREECIED LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White	Required component	is:	640
LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: CREECIED LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White			\wedge / \top \wedge \vee
LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: CREECIED LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White			
LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: CREECIED LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White			000
LED XP-L HI FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components:			15° 15°
FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 1.1 cd/m LEDs/each optic 1 Light colour White Required components:			90° 90°
Efficiency 94% Peak intensity 1.1 cd/Im LEDs/each optic 1 Light colour White Required components: CREE CED LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 cd/Im LEDs/each optic 1 Light colour White	LED	XP-L HI	21
Efficiency 94 % Peak intensity 1.1 cd/lm LEDs/each optic 1 Light colour White Required components: CREE LED LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White	FWHM / FWTM	Asymmetric	73° 75°
LEDs/each optic 1 Light colour White Required components:	Efficiency	94 %	
Light colour White Required components:	Peak intensity	1.1 cd/lm	60° 60°
Required components:	LEDs/each optic	1	$ \times / ^ $
CREE LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White	Light colour	White	45* 600 45*
CREE LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White	Required component	is:	
CREE LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White			
CREE LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White			\times / \top / \times
LED XP-L2 FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White			30° 30°
LEDXP-L2FWHM / FWTMAsymmetricEfficiency94 %Peak intensity0.8 cd/lmLEDs/each optic1Light colourWhite			
FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White			90* 90*
FWHM / FWTM Asymmetric Efficiency 94 % Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White			254
Peak intensity 0.8 cd/lm LEDs/each optic 1 Light colour White			
LEDs/each optic 1 Light colour White			604 604
Light colour White			
			400
Required components:			6° 6
	Requirea component	S.	000
20* 20* 20*			30° 30° 30° 30° 30°



LED	EHP-2x8-3535	90° 90°
FWHM / FWTM	Asymmetric	75* 75*
Efficiency	97 %	
Peak intensity	1 cd/lm	604
LEDs/each optic	1	400
Light colour	White	
Required componer		
	ю.	
		800
		30° 1000 30° 30°
LED	EHP-2x8-5050	90* 90*
LED FWHM / FWTM	Asymmetric	me me
Efficiency	97 %	
Peak intensity	0.7 cd/lm	60*
LEDs/each optic	1	
Light colour	White	
Required componer		
Required componen	ю.	
		00
		30° 2000 30° 30°
	EDS	
		50° 50°
LED	LUXEON 5050 Round LES	201 201 201 201
LED FWHM / FWTM	LUXEON 5050 Round LES Asymmetric	25
LED FWHM / FWTM Efficiency	LUXEON 5050 Round LES Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm	50* 50* 50* 60* 60* 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/m 1 White	5° 00 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/m 1 White	50* 90* 20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/m 1 White	50° 50° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/m 1 White	23 - 27 - 29 24 - 20 64 - 60 - 60 60 - 67 26 - 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Model of the second seco	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Mequired component Efficiency	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm 1 White hts: EDS LUXEON MZ Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component COMPARENT Efficiency Peak intensity	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm 1 White hts: EDS LUXEON MZ Asymmetric 94 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Composition Composition Composition	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm 1 White hts: EDS LUXEON MZ Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Composition Required component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON MZ Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Composition Composition Composition	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON MZ Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Composition Required component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON MZ Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Composition Required component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Round LES Asymmetric 94 % 0.8 cd/lm 1 White nts: EDS LUXEON MZ Asymmetric 94 % 1 cd/lm 1 White	



🥙 LUMIL	EDS	
LED	LUXEON Q	90° 90°
FWHM / FWTM	Asymmetric	75° 75°
Efficiency	94 %	
Peak intensity	1.1 cd/im	.50 ⁴ 400 50 ⁴ .
LEDs/each optic	1	
Light colour	White	
Required componer		
		800
		1000
		30° 15° 0° 15° 30°
UMIL	EDS	90° 90°
LED	LUXEON R	
FWHM / FWTM	Asymmetric	73* 75*
Efficiency	94 %	
Peak intensity	1 cd/lm	60* 60*
LEDs/each optic	1	\times / \frown \times
Light colour	White	45° 45°
Required componer	nts:	600
		800
		30* 30*
	EDS	13 ² 16 ⁵ 0 15 ⁴
	EUS	
		90* 90*
LED	LUXEON Rebel ES	90°
LED FWHM / FWTM	LUXEON Rebel ES Asymmetric	25
LED FWHM / FWTM Efficiency	LUXEON Rebel ES Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm	90° 70° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1	94° 94°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/m 1 White	92* 92* 94* 100 100 100 100 100 100 100 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/m 1 White	92* 92* 04* 00* 00* 00* 00* 00* 00* 00* 00* 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/m 1 White	53° 500 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 % 1.1 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/m 1 White	92* 92* 64* 400 64* 60* 60* 60* 60* 60* 60* 60* 60* 60* 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White nts:	90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White hts: EDS LUXEON T Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White hts: EDS LUXEON T Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White hts: EDS LUXEON T Asymmetric 94 % 1.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer COMPARENTIAL Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White hts: EDS LUXEON T Asymmetric 94 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White hts: EDS LUXEON T Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer COMPARENTIAL Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White hts: EDS LUXEON T Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White hts: EDS LUXEON T Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White hts: EDS LUXEON T Asymmetric 94 % 1.1 cd/lm 1 White	



M LUMIL	EDS	90* 90*
LED	LUXEON TX	3
FWHM / FWTM	Asymmetric	75* 75*
Efficiency	94 %	
Peak intensity	1 cd/lm	60* 60*
LEDs/each optic	1	$ \times / / \mathbb{N} \times $
Light colour	White	45* 63
Required componer	nts:	
		30° - 2000 - 30°
		130° 115° 30°
UMIL	EDS	50° 50°
LED	LUXEON V	
FWHM / FWTM	Asymmetric	73*
Efficiency	94 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	40
Light colour	White	6° 67
Required componer	nts:	60
		\times / \times
		800
1		112 02 122
	EDS	
		22 ⁴ 0 ⁴ 12 ⁴
LED	LUXEON Z ES	25 ¹ 0 ¹ 15 ¹ 27
LED FWHM / FWTM	LUXEON Z ES Asymmetric	201 00 100 100 100 100 100 100 100 100 1
LED FWHM / FWTM Efficiency	LUXEON Z ES Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White	23 ¹ 0 ¹ 13 ² 9 ² 39 ² 39 ² 9 ² 9 ² 60 60 6 ³ 6 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White hts:	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON Z ES Asymmetric 94 % 1.5 cd/m 1 White hts:	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White Its:	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MST LED FWHM / FWTM	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White hts:	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MST Vour soluti LED FWHM / FWTM Efficiency	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White Ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 %	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White Ints: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.9 cd/lm	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component USA FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White nts: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.9 cd/lm 1	100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MST Vour soluti LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White nts: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MSST Vour soluti LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White nts: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MST Vour soluti LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White nts: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component MST Vour soluti LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES Asymmetric 94 % 1.5 cd/lm 1 White nts: RecLED 122x50mm 1900lm 730 2x4 Opt G1 Asymmetric 97 % 0.9 cd/lm 1 White	



Ø NICHI∧		90° 5
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required component	NCSxx19A Asymmetric % 1 White hts:	
NICHI		90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NS9x383 Asymmetric 94 % 0.8 cd/lm 1 White tts:	273
		00 20 ¹ 10 ¹ 0 ¹ 20 ¹ 20 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NVSW219D Asymmetric 94 % 0.9 cd/lm 1 White	
ØNICHI	· · · · · · · · · · · · · · · · · · ·	50° 15 ³ 0° 13 ³ 3
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NVSW219F Asymmetric 94 % 1 cd/lm 1 White	33 65 67 60 60 60
		50° 15' 0° 13' 3



ØNICHIA		90* 90*
LED	NVSW219F	
FWHM / FWTM	Asymmetric	73°
Efficiency	96 %	
Peak intensity	1 cd/lm	50° 50°
LEDs/each optic	1	
Light colour	White	5'
Required componer	ts:	600
		\times
		900
		705 YO
		10 ³ 10 ³ 10 ⁵ 0
ØNICHIA		90* 90*
LED	NVSW319B	24
FWHM / FWTM	Asymmetric	73*
Efficiency	94 %	
Peak intensity	1 cd/lm	6x* 6x*
LEDs/each optic	1	400
Light colour	White	45* 45*
Required componer	ts:	600
		\times / \times
		800
		300
\sim		13 ⁵ 0 ⁶ 19 ⁶
ØNICHIA		90* 90*
LED	NVSW3x9A	
FWHM / FWTM	Asymmetric	780
Efficiency	94 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	400
Light colour	White	45* 45*
Required componer	ts:	670
		800
		30° 15° 30°
ØNICHIA		90* 90*
LED	NVSxE21A	210
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60° 60°
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	60
Light colour	White	6.
Required componer	15:	80
		100
		30* 12 ⁵ 0 ⁴ 12 ⁵ 30*



ØNICHI	l l	50 [*]
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required componen	NVSxx19A Asymmetric % 1 White hts:	
ØNICHI		89*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	NVSxx19B/NVSxx19C Asymmetric 96 % 1.1 cd/m 1 White	
		<u> </u>
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	NWSx229A Asymmetric 94 % 0.8 cd/lm 1 White nts:	
OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.9 cd/lm 1 White	



OSRAM		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PrevaLED Brick HP 2x8 Asymmetric 94 % 1.1 cd/lm 1 White	
OSRAM Opto Semiconductors		12 ⁹ 0 ⁰ 12 ⁹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris S8 Asymmetric 94 % 0.7 cd/lm 1 White nts:	
OSRAM		201 201 201 201 201 201 201 201 201 201
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSLON Square CSSRM2/CSSRM3 Asymmetric 86 % 1 cd/lm 1 White nts:	
Protective	plate, glass	500 30 ⁴ 500
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSLON Square CSSRM2/CSSRM3 Asymmetric 94 % 1.1 cd/lm 1 White nts:	



OSRAM Opto Semiconductors		
LED	OSLON Square PC	21
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	1 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required compone		500
		30° 1000 30° 30° 30°
PHILIF	PS S	90* 90*
LED	Fortimo FastFlex LED 2x8 DA G4	3
FWHM / FWTM	Asymmetric	12 to the second s
Efficiency	94 %	
Peak intensity	1.1 cd/lm	50° 50°
LEDs/each optic	1	X / V
Light colour	White	45* 45*
Required compone	nts:	
		30* 33*
	20	
PHILIF		91°
LED	Fortimo FastFlex LED 2x8 DA G4+	N1 2 N2
LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric	8° R'
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 %	8° X1 10°
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm	8°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/Im 1	20 27 27 27 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White	20 27 27 27 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White	20 27 27 27 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White	20 27 27 27 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White Ints:	2 2 2 2 2 2 2 2 2 2 2 2 2 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White Ints: Fortimo FastFlex LED 2x8 DA G5 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone ED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White Ints: S Fortimo FastFlex LED 2x8 DA G5 Asymmetric 97 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Equired compone PHILLIE FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White Ints: Fortimo FastFlex LED 2x8 DA G5 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIC LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White Ints: Fortimo FastFlex LED 2x8 DA G5 Asymmetric 97 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIC FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIC FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIC FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLIC FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 94 % 0.8 cd/lm 1 White Ints:	



DILLIF		
PHILIF	·5	90* 90*
		710 770
LED	Fortimo FastFlex LED 2x8 DAX G4	
FWHM / FWTM	Asymmetric	50* 604
Efficiency	0 %	400
LEDs/each optic	1	
Light colour	White	45* 45*
Required compone	nts:	
		200
		30+ 30+
0.0.0.0		13
S ΛΜSI	JNG	90° 90°
LED	HiLOM RC12 Z (LH181B)	
FWHM / FWTM	Asymmetric	75* 75*
Efficiency	98 %	
Peak intensity	1.2 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 660 45*
Required compone	nts:	
		200
		\times
		1000
		13 ⁵ 0 ⁶ 15*
SAMSU	JNG	90* 90*
LED	HiLOM RH12 Z (LH351C)	5
FWHM / FWTM	Asymmetric	75* 75*
Efficiency	96 %	
Peak intensity	0.9 cd/lm	60° 60°.
LEDs/each optic	1	400
Light colour	White	51 61
Required compone	nts:	
		600
		X X
		900
0.0.0.0		15 ³ 0 ⁶ 15 ⁹
SAMSU	JNG	90° 90°
LED	HiLOM RH16 (LH351C)	E
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	the second secon
	0.9 cd/lm	60 ⁴ 60 ⁴
Peak intensity	0.5 64/111	
Peak intensity LEDs/each optic	1	400
		67 60
LEDs/each optic	1 White	-67 - 60 -67
LEDs/each optic Light colour	1 White	657
LEDs/each optic Light colour	1 White	er, er, er, er, er, er, er, er, er, er,
LEDs/each optic Light colour	1 White	er 60 00



SAMSL	ING	90* 92*
LED	HiLOM RM12 Z (LH502C)	90° 90°
FWHM / FWTM	Asymmetric	338
Efficiency	96 %	the second secon
Peak intensity	0.7 cd/lm	50 ⁴ 60 ⁴
LEDs/each optic	1	440
Light colour	' White	
Required componer		
		000
		\times / \times
		30° 15° 30°
SAMSL	JNG	90* 90*
LED	HiLOM RM16 Z (LH502C)	
FWHM / FWTM	Asymmetric	75* 70*
Efficiency	99 %	
Peak intensity	0.7 cd/lm	50° 60*
LEDs/each optic	1	
Light colour	White	45* 500 45*
Required componer	nts:	
		30* 10 1000 10* 30*
0.0.0.0		15 ³ 15 ⁴ 15 ⁴
SAMSL	JNG	90* 90*
LED	HiLOM RM8 Z (LH502C)	
FWHM / FWTM		78.0
	Asymmetric	
Efficiency	Asymmetric 97 %	
Peak intensity		
Peak intensity LEDs/each optic	97 % 0.7 cd/lm 1	
Peak intensity LEDs/each optic Light colour	97 % 0.7 cd/lm 1 White	
Peak intensity LEDs/each optic	97 % 0.7 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour	97 % 0.7 cd/lm 1 White	60 60 60 60 60 60 60 60 60 60
Peak intensity LEDs/each optic Light colour	97 % 0.7 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour	97 % 0.7 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required componen	97 % 0.7 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required componen	97 % 0.7 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required componen SAMSU	97 % 0.7 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required componen SAMSU LED FWHM / FWTM	97 % 0.7 cd/lm 1 White nts: JNG LH351B Asymmetric	
Peak intensity LEDs/each optic Light colour Required componen SAMSL LED FWHM / FWTM Efficiency	97 % 0.7 cd/lm 1 White nts: UNG LH351B Asymmetric 94 %	
Peak intensity LEDs/each optic Light colour Required componen SAMSL LED FWHM / FWTM Efficiency Peak intensity	97 % 0.7 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required componen SAMSL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	97 % 0.7 cd/lm 1 White nts: UNG LH351B Asymmetric 94 % 1 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required component SAMSL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	97 % 0.7 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required componen SAMSL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	97 % 0.7 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required component SAMSL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	97 % 0.7 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required component SAMSL LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	97 % 0.7 cd/lm 1 White nts:	

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SAMSU	ING	
LED	LH351C	90* 90*
FWHM / FWTM	Asymmetric	73* 77*
Efficiency	94 %	
Peak intensity	1 cd/lm	60*
LEDs/each optic	1	40
Light colour	White	67 (ST)
Required compone		
rtoquiroù oompone		
		000
		\times / \wedge \times
		30° 13° 30°
SAMSU	ING	
LED	LH351D	30- 30-
FWHM / FWTM	Asymmetric	75* 75*
Efficiency	94 %	
Peak intensity	0.8 cd/lm	501 6.4
LEDs/each optic	1	
Light colour	White	400
Required compone		
		200
		30° 000 30° 30°
SAMSU	UNG	50.+ 20.+
		94
LED	LH351Z	51° 50°
LED FWHM / FWTM		91 ³ 97 35 70 70
LED FWHM / FWTM Efficiency	LH351Z Asymmetric	91 ⁴ 97 32 60 ⁷ 60 ⁴
LED FWHM / FWTM	LH351Z Asymmetric 94 %	92° 92° 32° 8° 7° 7° 7° 7° 7° 7° 7° 7° 7° 7° 7° 7° 7°
LED FWHM / FWTM Efficiency Peak intensity	LH351Z Asymmetric 94 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z Asymmetric 94 % 1 cd/lm 1 White	91 ³ 91 ⁴ 7 ⁴ 6 ⁴ 6 ⁵ 8 ⁶ 8 ⁶ 8 ⁶ 8 ⁷ 8 ⁶ 8 ⁷ 8 ⁷ 8 ⁷ 8 ⁷ 8 ⁷ 8 ⁷ 8 ⁷ 8 ⁷
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 1 cd/lm 1 White	95 ³ 75 ⁴ 65 ⁴ 60 67 67 69 70 67 67 70 67 67 70 70 70 70 70 70 70 70 70 70 70 70 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM	LH351Z Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	LH351Z Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	LH351Z Asymmetric 94 % 1 cd/lm 1 White ents: UNG LH508A Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z Asymmetric 94 % 1 cd/lm 1 White ents: UNC LH508A Asymmetric 94 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 1 cd/lm 1 White ents: UNC LH508A Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 1 cd/lm 1 White ents: UNC LH508A Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 1 cd/lm 1 White ents: UNC LH508A Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 1 cd/lm 1 White ents: UNC LH508A Asymmetric 94 % 0.8 cd/lm 1 White	



Elektronik GmbH		0/t 00t
	LED-Pa-L15c2W11c2-xxx-C050-01	
FWHM / FWTM	Asymmetric	750 750
Efficiency	98 %	
Peak intensity	1.1 cd/im	60* 60*
LEDs/each optic	1	
Light colour	White	5°
Required compone		
		1000
		30* 1000 30* 15 ⁵ 0 ⁶ 15 ⁶
SEOUL		
SEOUL SEMICONDUCTOR	Acrich MJT 4040	30°
FWHM / FWTM	Asymmetric	736 780
Efficiency	94 %	
Peak intensity	1 cd/lm	607 604
LEDs/each optic	1	400
Light colour	White	51
Required compone		00
		X X
		840
		\times
		30° 30° 30°
SEOUL SEMICONDUCTOR	Z5M1/Z5M2	80*
SEOUL SEMICONDUCTOR	Z5M1/Z5M2 Asymmetric	100
seoul semiconductor LED FWHM / FWTM	Asymmetric	
seoul semiconductor LED FWHM / FWTM Efficiency		
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 %	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/lm 1 White	
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1.1 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1.1 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1.1 cd/lm 1 White nts:	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1.1 cd/lm 1 White Ints:	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconductor LED FWHM / FWTM	Asymmetric 94 % 1.1 cd/lm 1 White nts:	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 94 % 1.1 cd/lm 1 White nts: Z5M3 Asymmetric 94 %	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/lm 1 White nts: Z5M3 Asymmetric	
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 % 1.1 cd/lm 1 White nts: Z5M3 Asymmetric 94 % 1 cd/lm 1	
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 % 1.1 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 1 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 % 1.1 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 1 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	Asymmetric 94 % 1.1 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 1 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 % 1.1 cd/lm 1 White hts: Z5M3 Asymmetric 94 % 1 cd/lm 1 White	



SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z5M4	74
FWHM / FWTM	Asymmetric	
Efficiency	97 %	504 604
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	400
Light colour	White	45*
Required compone	nts:	800
		20° 20°
		15 ³ 0 ³ 15 ⁴
SEOUL		90* 90*
LED	Z5P	75"
FWHM / FWTM	Asymmetric	
Efficiency	%	50* 60*
LEDs/each optic	1	$\times//\top$
Light colour	White	45* 660 45*
Required compone		
		1000
		15 ³ 0 ⁶ 15 ⁴
SEOUL		139 ³ 0 ⁶ 39 ⁴
SEOUL SEMICONDUCTOR	70/00	20 ¹ 20 ¹ 20 ¹ 20 ¹
seoul semiconductor	Z8Y22	22 ¹ 0 ¹ 12 ¹
seoul semiconductor LED FWHM / FWTM	Asymmetric	22 ¹ 0 ¹ 12 ⁴ 2
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 94 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1	90° 90° 90°
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1 White	90° 90° 90°
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	90° 90° 90°
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	90° 90° 90°
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	90° 90° 90°
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	90° 90° 90°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SEOUL SEMICONDUCTOR	Asymmetric 94 % 1.1 cd/lm 1 White nts:	90° 90° 90°
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seour semiconductor LED	Asymmetric 94 % 1.1 cd/lm 1 White Ints: Z8Y22P	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seoul semiconductor LED FWHM / FWTM	Asymmetric 94 % 1.1 cd/lm 1 White Ints: Z8Y22P Asymmetric	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency	Asymmetric 94 % 1.1 cd/lm 1 White nts: Z8Y22P Asymmetric 94 %	
seou semiconbuctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconbuctor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/lm 1 White nts: Z8Y22P Asymmetric 94 % 1 cd/lm	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1 White nts: Z8Y22P Asymmetric 94 % 1 cd/lm 1	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White nts: Z8Y22P Asymmetric 94 % 1 cd/lm 1 White	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1 White nts: Z8Y22P Asymmetric 94 % 1 cd/lm 1 White	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White nts: Z8Y22P Asymmetric 94 % 1 cd/lm 1 White	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White nts: Z8Y22P Asymmetric 94 % 1 cd/lm 1 White	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White nts: Z8Y22P Asymmetric 94 % 1 cd/lm 1 White	



TOSHIBA		
Leading Innovation »	TI 41.0	90* 90*
	TL1L3	75'
FWHM / FWTM	Asymmetric 94 %	
Efficiency Peak intensity	94 % 0.8 cd/lm	.60% 60%
LEDs/each optic	1 White	400
Light colour Required compone		45*
Required compone	115.	
		30° 800 30° 30°
TOSHIBA		
Leading Innovation >>>	T () (90° 90°
	TL1L4	70 70
FWHM / FWTM	Asymmetric	
Efficiency Peak intensity	93 % 1 cd/lm	.60°
LEDs/each optic	1	400
LEDS/each oplic	White	
Required compone		.45°
Required compone		
		810
		30° 15° 30°
TRIDO		
LED	RLE 2x4 2000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1 White	
Light colour		
Required compone	nts:	
TRIDON		THY KEN
		90*
	RLE 2x8 4000lm HP EXC2 OTD	730 - 750
FWHM / FWTM Efficiency	Asymmetric 94 %	
		50° 400 50*
Peak intensity LEDs/each optic	1.3 cd/lm 1	
LEDs/each oplic	T White	600 67°
Required compone		6°. 6 [*]
	ino.	80
		1000
		30° 15 ⁵ 1580 15° 30°

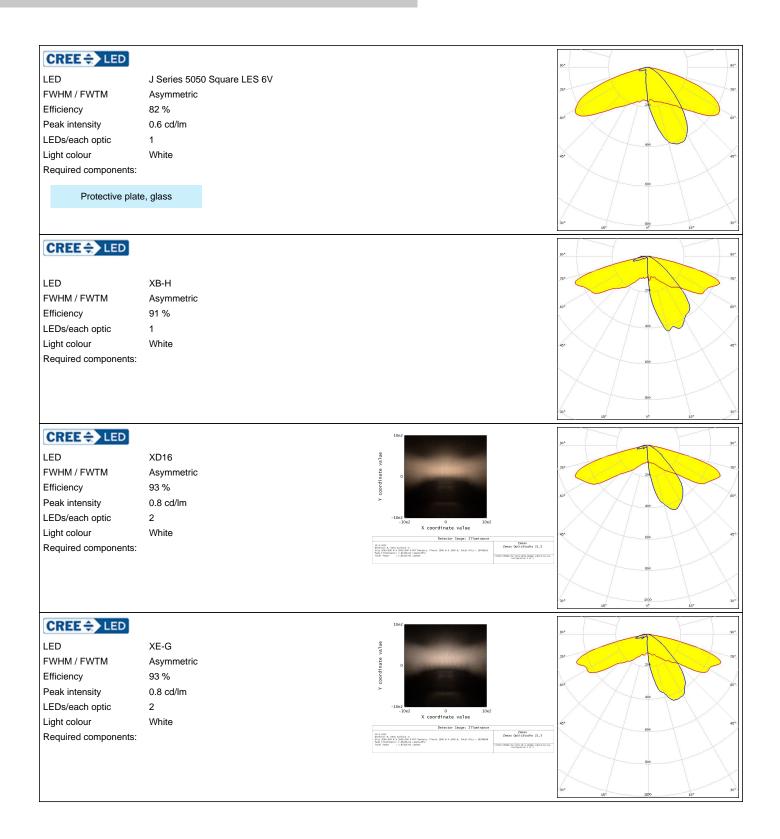


TRIDOM		
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	75'
Efficiency	94 %	1 Lotter
Peak intensity	1.1 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required compone		40°
		\times
		1630
		30° 2000 30° 30°
TRIDON		
		90* 90*
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	75* 75*
FWHM / FWTM	Asymmetric	
Efficiency	94 %	504 604
Peak intensity	1.1 cd/lm	200
LEDs/each optic	1	
Light colour	White	45° 45°
Required compone	nts:	\times / \times
		1600
		X / X
		30° 30° 30°
TRIDON		
		90* 90*
LED	RLE G1 49x223mm 4000lm xxx EXC OTD	75*
FWHM / FWTM	Asymmetric	
Efficiency	94 %	504 604
Peak intensity	1.1 cd/lm	~~~~~
LEDs/each optic	1	
Light colour	White	45°
Required compone	nts:	\times / \times
		3690
		\times / \times /
		30° 15 ³ 200 15° 30°
TRIDON		90* 90*
LED	RLE G1 49x245mm 4000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	507 604
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 1220 45*
Required compone	nts:	
		1000
		\times / \land \times
		30° ma 2000 ma 30°
		10 ⁻ 0 ^a 15 ^a



CREE LED J Series 5050 Round LES FWHM / FWTM Asymmetric Efficiency 95 % Peak intensity 0.7 cd/lm	
LEDJ Series 5050 Round LESFWHM / FWTMAsymmetricEfficiency95 %	
FWHM / FWTMAsymmetricEfficiency95 %	90* 90*
Efficiency 95 %	730 750
•	
Peak intensity 0.7 cd/lm	\$04 609
	400
LEDs/each optic 1	\times
Light colour White	45°
Required components:	600
	900
	30* 30*
	90* 90*
LED J Series 5050 Round LES	
FWHM / FWTM Asymmetric	
Efficiency 95 %	504 Sol
Peak intensity 0.8 cd/lm	
LEDs/each optic 1	
Light colour White	45* 45*
Required components:	
	000
	30* 30*
	157 16% 15*
	90° 90°
LED J Series 5050 Round LES	
FWHM / FWTM Asymmetric	73.0
Efficiency 81 %	
Peak intensity 0.6 cd/lm	bo.
LEDs/each optic 1	400
Light colour White	45* 45*
Required components:	\times
	540
Protective plate, glass	\times / \setminus \times
	30° <u>30°</u> 30° 30° 30°
	90 ⁺ 90 ⁺
LED J Series 5050 Round LES	20 ⁻
LED J Series 5050 Round LES FWHM / FWTM Asymmetric	
LEDJ Series 5050 Round LESFWHM / FWTMAsymmetricEfficiency82 %	
LEDJ Series 5050 Round LESFWHM / FWTMAsymmetricEfficiency82 %Peak intensity0.6 cd/lm	
LEDJ Series 5050 Round LESFWHM / FWTMAsymmetricEfficiency82 %Peak intensity0.6 cd/lmLEDs/each optic1	
LEDJ Series 5050 Round LESFWHM / FWTMAsymmetricEfficiency82 %Peak intensity0.6 cd/lmLEDs/each optic1Light colourWhite	
LEDJ Series 5050 Round LESFWHM / FWTMAsymmetricEfficiency82 %Peak intensity0.6 cd/lmLEDs/each optic1	
LEDJ Series 5050 Round LESFWHM / FWTMAsymmetricEfficiency82 %Peak intensity0.6 cd/lmLEDs/each optic1Light colourWhiteRequired components:	
LEDJ Series 5050 Round LESFWHM / FWTMAsymmetricEfficiency82 %Peak intensity0.6 cd/lmLEDs/each optic1Light colourWhite	







LED	XHP35 HD	
FWHM / FWTM		
	Asymmetric	
Efficiency	90 %	
LEDs/each optic		
Light colour	White	
Required components:		
LED	XHP35 HI	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
LEDs/each optic	1	
Light colour	White	
Required components:		
		90* 90*
LED	XP-G2	
FWHM / FWTM	Asymmetric	750 770 770
Efficiency	86 %	
Peak intensity	0.8 cd/lm	60*
LEDs/each optic	1	400
Light colour	White	5°
Required components:		60
C17580_STRADA-2X	2-SHD-WHT	
		30° 13 ⁵ 0° 10° 30°
LED	XP-G2	
FWHM / FWTM	Asymmetric	734
Efficiency	78 %	X A
Peak intensity	0.6 cd/lm	604 604
LEDs/each optic	1	
Light colour	White	
Required components:		
		510
Protective plate	, glass	600
	e, glass	60



		90° 90°
LED	XP-G2 HE	
FWHM / FWTM	Asymmetric	75°
Efficiency	84 %	20
Peak intensity	0.6 cd/lm	60* 60*.
LEDs/each optic	1	
Light colour	White	400
Required components:	wille	497
C17580_STRADA-2X	2_SHD_WHT	600
011000_0110.07(2)		
		\times
		30* 30* 30*
		90°
LED	XP-G3	2
FWHM / FWTM	Asymmetric	750 700 700
Efficiency	81 %	
Peak intensity	0.6 cd/lm	.50°
LEDs/each optic	1	30
Light colour	White	45* 400 55*
Required components:		
		200
Protective plate	, glass	600
		700 700 30* 15 ⁵ 0 ⁶ 15* 30*
		90* 90*
LED	XP-G3	
FWHM / FWTM	Asymmetric	75°
Efficiency	77 %	
Peak intensity	0.6 cd/lm	60° 60°.
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		
C17580_STRADA-2X	2-SHD-WHT	540
		600
Protective plate	, glass	30* 33*
		15° 15°
		90* 90*
LED	XQ-E HD	
FWHM / FWTM	Asymmetric	75' 20 75'
Efficiency	93 %	
Efficiency Peak intensity	93 % 1 cd/lm	27
Efficiency Peak intensity LEDs/each optic	93 % 1 cd/lm 1	20
Efficiency Peak intensity LEDs/each optic Light colour	93 % 1 cd/lm	
Efficiency Peak intensity LEDs/each optic	93 % 1 cd/lm 1	20
Efficiency Peak intensity LEDs/each optic Light colour	93 % 1 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	93 % 1 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour	93 % 1 cd/lm 1	54° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50



		90* 90*
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	Asymmetric	
Efficiency	81 %	50 ⁴ 60 ⁴
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		000
Protective plate	e, glass	\times / \setminus \times
		890
		125 06 125 30
		90* 90*
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	604 604
Peak intensity	0.9 cd/lm	
LEDs/each optic		
Light colour	White	45°
Required components:		810
		\times / \times
		1000
		30° 15 ⁵ 0° 15° 30°
)S	01 ²
LED	LUXEON 3030 2D (Square LES)	
FWHM / FWTM	Asymmetric	750 760
Efficiency	82 %	
Peak intensity	0.6 cd/lm	50 ⁴ 60 ⁴
	0.0 Cd/im	
LEDs/each optic	1	40
		40
LEDs/each optic	1	er
LEDs/each optic Light colour Required components:	1 White	6°
LEDs/each optic Light colour	1 White	40'
LEDs/each optic Light colour Required components:	1 White	
LEDs/each optic Light colour Required components: Protective plate	1 White e, glass	00
LEDs/each optic Light colour Required components: Protective plate	1 White e, glass	00
LEDs/each optic Light colour Required components: Protective plate	1 White e, glass DS LUXEON 3030 2D (Square LES)	00
LEDs/each optic Light colour Required components: Protective plate	1 White e, glass DS LUXEON 3030 2D (Square LES) Asymmetric	00
LEDs/each optic Light colour Required components: Protective plate Control LED FWHM / FWTM Efficiency	1 White e, glass DS LUXEON 3030 2D (Square LES) Asymmetric 95 %	00
LEDs/each optic Light colour Required components: Protective plate Why LUMILED FWHM / FWTM Efficiency Peak intensity	1 White e, glass DS LUXEON 3030 2D (Square LES) Asymmetric	60 20 20 20 20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components: Protective plate Control LED FWHM / FWTM Efficiency	1 White e, glass DS LUXEON 3030 2D (Square LES) Asymmetric 95 % 0.9 cd/lm	60 20 20 20 20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components: Protective plate Why LUMILED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White e, glass S LUXEON 3030 2D (Square LES) Asymmetric 95 % 0.9 cd/lm 1	60 20 20 20 20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components: Protective plate Control LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White e, glass S LUXEON 3030 2D (Square LES) Asymmetric 95 % 0.9 cd/lm 1	60 20 20 20 20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components: Protective plate Control LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White e, glass S LUXEON 3030 2D (Square LES) Asymmetric 95 % 0.9 cd/lm 1	60 20 20 20 20 20 20 20 20 20 20 20 20 20
LEDs/each optic Light colour Required components: Protective plate Components: Protective plate Components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White e, glass S LUXEON 3030 2D (Square LES) Asymmetric 95 % 0.9 cd/lm 1	60 20 20 20 20 20 20 20 20 20 20 20 20 20



UMILED	S	90°
LED	LUXEON 5050 Round LES	× 5
FWHM / FWTM	Asymmetric	75°
Efficiency	86 %	()
Peak intensity	0.6 cd/lm	604
LEDs/each optic	1	
Light colour	White	400
Required components:	wine	
Required components.		
Protective plate	glass	
		\times / \times
		30* 15° \$80 15* 30*
	S	90° 90°
LED	LUXEON 5050 Square LES	
FWHM / FWTM	Asymmetric	730 7750
Efficiency	75 %	
Peak intensity	0.6 cd/lm	50*
LEDs/each optic	1	30
Light colour	White	45*
Required components:		
C17580_STRADA-2X	2-SHD-WHT	550
Protective plate	glass	
	-	13 ³ <u>Mb</u> 15 ⁴
UMILED	S	90* 90*
LED	LUXEON 5050 Square LES	
FWHM / FWTM	Asymmetric	13°
Efficiency	85 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	400
Light colour	White	6° 6°
Required components:		\times
Deste stive elste		000
Protective plate	giass	\times / \times \times
		30* 30° 30° 30°
	S	
LED		90*
		73° 75°
		604 604
	THIC	
	2-SHD-WHT	
017300_01RADA-2A		
	LUXEON 5050 Square LES Asymmetric 86 % 0.6 cd/lm 1 White	



)S	
LED	LUXEON 5050 Square LES	90°*
FWHM / FWTM	Asymmetric	73%
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60*
LEDs/each optic	1	wo
Light colour	White	87 et al 1
Required components:	wille	40°
rtoquirou componento.		
		00
		23° 23 ⁵ 0° 13° 30'
)S	
		9.°
LED	LUXEON H50-2	75°
FWHM / FWTM	Asymmetric	
Efficiency	%	60*
LEDs/each optic	1	
Light colour	White	V6° 500 60
Required components:		
		2000
		10 ⁵ 213 ⁵ 0 ⁶ 113 ⁶
)S	97
LED	LUXEON HL2X	
FWHM / FWTM	Asymmetric	
Efficiency	80 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	6, 40 6
Required components:		
Drotostivo plati		
Protective plate	, glass	540
		30* 30 10* 30'
	5	
LED		90* 90*
EED FWHM / FWTM	LUXEON HL2X Asymmetric	75 75
Efficiency	Asymmetric 92 %	
Peak intensity	92 % 0.7 cd/lm	
LEDs/each optic	1	400
Light colour	White	
Required components:	TTING .	
equilou componento.		



	S	
LED	LUXEON V2	90 - 99
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.8 cd/lm	604 62
LEDs/each optic	1	
Light colour	White	$Z \times I \cap X $
Required components:	wine	· · · · · · · · · · · · · · · · · · ·
required componente.		
		800
		30 ⁴ 1000 30 ⁴ 30 ⁴
Μ ΝΙCΗΙΛ		90*
LED	NV4WB35AM	
FWHM / FWTM	Asymmetric	75°
Efficiency	95 %	
Peak intensity	0.7 cd/lm	50 ⁴ 60
LEDs/each optic	1	X//TYX
Light colour	White	6° 6°
Required components:		000
		000
		30° 15° 30°
ΜΝΙCΗΙΛ		
		90* 90*
LED	NVSW219F	90° 90°
LED FWHM / FWTM	NVSW219F Asymmetric	20 ⁻
FWHM / FWTM	Asymmetric	
FWHM / FWTM Efficiency	Asymmetric 82 %	
FWHM / FWTM Efficiency Peak intensity	Asymmetric 82 % 0.7 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 82 % 0.7 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 82 % 0.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 82 % 0.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 82 % 0.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 82 % 0.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 82 % 0.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 82 % 0.7 cd/lm 1 White , glass NVSW519A	50° 10° 10° 30°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 82 % 0.7 cd/lm 1 White , glass NVSW519A Asymmetric	94°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 82 % 0.7 cd/lm 1 White 93 %	94°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 82 % 0.7 cd/lm 1 White p. glass NVSW519A Asymmetric 93 % 0.7 cd/lm	94°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 82 % 0.7 cd/lm 1 White e, glass NVSW519A Asymmetric 93 % 0.7 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 82 % 0.7 cd/lm 1 White p. glass NVSW519A Asymmetric 93 % 0.7 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 82 % 0.7 cd/lm 1 White e, glass NVSW519A Asymmetric 93 % 0.7 cd/lm 1	50° 10° 10° 30°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 82 % 0.7 cd/lm 1 White e, glass NVSW519A Asymmetric 93 % 0.7 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 82 % 0.7 cd/lm 1 White e, glass NVSW519A Asymmetric 93 % 0.7 cd/lm 1	



Μ ΝΙCΗΙΛ			H.
LED	NVSW519A	27	
FWHM / FWTM	Asymmetric	750 100	
Efficiency	83 %	1 - the	
Peak intensity	0.5 cd/lm	60°	XX
LEDs/each optic	1	X - 300	$\langle \rangle \times$
Light colour	White	45°	\times
Required components:			
Protective plate	e, glass	600	
		30* 15 ³ %0	19*
MICHIΛ		907	
LED	NVSxE21A	3	
FWHM / FWTM	Asymmetric	750	
Efficiency	83 %		1 X
Peak intensity	0.5 cd/lm	.60°	
LEDs/each optic	4		\checkmark
Light colour	White	400	
Required components:			
Protective plate	alass	000	
i lotootivo plate	, glabb	\times $($	
		30° 15° 800	18* 3
MNICHI		30*	,
LED	NVSxE21A	4	
FWHM / FWTM	Asymmetric	750	
Efficiency	96 %		\mathcal{N}
Peak intensity	0.6 cd/lm		
LEDs/each optic	4	400	X
Light colour	White	45*	
Required components:		600	
		010	
		30° 15 ⁵ 0°	15*
Μ ΝΙCΗΙΛ		50°	
LED	NVSxE21A	1	
FWHM / FWTM	Asymmetric	75	
Efficiency	80 %		N
Peak intensity	0.8 cd/lm	60°	
LEDs/each optic	1	A 140	\mathcal{X}
Light colour	White	45*	
Required components:			
Protective plate	e, glass		
		30*	
		13 ⁵ 0 ⁶	15*



IED NVSxx19B/NVSxx19C FWHM / FWTM Asymmetric	
LED NVSxx19B/NVSxx19C	202
	775
Efficiency 82 %	
Peak intensity 0.7 cd/lm	60*
LEDs/each optic 1	
Light colour White	400 45*
Required components:	
Distastiva plata glass	600
Protective plate, glass	
32*	13 ² 0 ⁶ 15 ⁴ 30 ⁴
	90*
LED NVSxx19B/NVSxx19C	
FWHM / FWTM Asymmetric	772
Efficiency 81 %	20
Peak intensity 0.6 cd/lm	
LEDs/each optic 1	
Light colour White	400
Required components:	
Protective plate, glass	600
50°	15° 880 15° 30°
OSRAM Opto Semiconductors	90*
LED Duris S8	
FWHM / FWTM Asymmetric	100
Efficiency 80 %	
	\times / / \times \sim
Peak intensity 0.6 cd/lm	
Peak intensity 0.6 cd/lm LEDs/each optic 1	400
LEDs/each optic 1 Light colour White	
LEDs/each optic 1 Light colour White Required components:	
LEDs/each optic 1 Light colour White	- CO - CO - CO
LEDs/each optic 1 Light colour White Required components:	
LEDs/each optic 1 Light colour White Required components:	60 60 13 ² 80 13 ² 3 ³
LEDs/each optic 1 Light colour White Required components: C17677_STRADA-2X2-SHD-BLK	600 500 500 500 500 500 500 500
LEDs/each optic 1 Light colour White Required components: C17677_STRADA-2X2-SHD-BLK	
LEDs/each optic 1 Light colour White Required components: C17677_STRADA-2X2-SHD-BLK C17677_STRADA-2X2-SHD-BLK C17677_STRADA-2X2-SHD-BLK	
LEDs/each optic 1 Light colour White Required components: C17677_STRADA-2X2-SHD-BLK C17677_STRADA-2X2-SHD-BLK	
LEDs/each optic 1 Light colour White Required components: C17677_STRADA-2X2-SHD-BLK	
LEDs/each optic 1 Light colour White Required components: C17677_STRADA-2X2-SHD-BLK	
LEDs/each optic 1 Light colour White Required components: C17677_STRADA-2X2-SHD-BLK C17677_STRADA-2X2-SHD-BLK	
LEDs/each optic 1 Light colour White Required components: C17677_STRADA-2X2-SHD-BLK C17677_STRADA-2X2-SHD-BLK COSRAM Opto Semiconductors LED Duris S8 FWHM / FWTM Asymmetric Efficiency 80 % Peak intensity 0.5 cd/m LEDs/each optic 1	
LEDs/each optic 1 Light colour White Required components: C17677_STRADA-2X2-SHD-BLK	
LEDs/each optic 1 Light colour White Required components: C17677_STRADA-2X2-SHD-BLK C17677_STRADA-2X2-SHD-BLK	



OSRAM Opto Semiconductors LED OSCONIQ P 3737 (2W version) FWHM / FWTM Asymmetric Efficiency 92 %	90*
LED OSCONIQ P 3737 (2W version) FWHM / FWTM Asymmetric Efficiency 92 %	90*
FWHM / FWTM Asymmetric Efficiency 92 %	
Efficiency 92 %	1 total
204	
Peak intensity 0.9 cd/lm	60*
Peak intensity 0.9 cd/lm LEDs/each optic 1	\sim
Light colour White	XX
Required components:	45
30." 25% 0	15* 30*
OSRAM Opto Semiconductors	90*
LED OSCONIQ P 3737 (3W version)	
FWHM / FWTM Asymmetric	
Efficiency 94 %	
Peak intensity 0.7 cd/lm	
LEDs/each optic 1	$\neg \land X$
Light colour White	45*
Required components:	
80	
	0 15*
OSRAM Opto Semiconductors	90*
LED OSLON Square CSSRM2/CSSRM3	
	77.
FWHM / FWTM Asymmetric	
FWHM / FWTM Asymmetric Efficiency 84 %	
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm	a. 67. 67.
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1	
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White	2 6 6
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components:	200 A
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: C17580_STRADA-2X2-SHD-WHT	10 10 10
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: C17580_STRADA-2X2-SHD-WHT	200 100 100 100 100 100
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: C17580_STRADA-2X2-SHD-WHT	26
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: C17580_STRADA-2X2-SHD-WHT C17580_STRADA-2X2-SHD-WHT	
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: C17580_STRADA-2X2-SHD-WHT C17580_STRADA-2X2-SHD-WHT OSRAM OBLON Square PC FWHM / FWTM Asymmetric	20 10 10 10 10 10 10 10 10 10 1
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: C17580_STRADA-2X2-SHD-WHT C17580_STRADA-2X2-SHD-WHT OSRAM Obs Semiconductors LED OSLON Square PC FWHM / FWTM Asymmetric Efficiency 87 %	20 70 70 70 70 70 70 70 70 70 70 70
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: C17580_STRADA-2X2-SHD-WHT C17580_STRADA-2X2-SHD-WHT Image: Component in the image: Component in	20 20 20 20 20 20 20 20 20 20 20 20 20 2
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: C17580_STRADA-2X2-SHD-WHT C17580_STRADA-2X2-SHD-WHT Image: Component in the image: C17580_STRADA-2X2-SHD-WHT OSERAM OSLON Square PC FWHM / FWTM Asymmetric EED OSLON Square PC FWHM / FWTM Asymmetric Efficiency 87 % Peak intensity 0.7 cd/lm LEDs/each optic 1	
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: C17580_STRADA-2X2-SHD-WHT C17580_STRADA-2X2-SHD-WHT Image: Component in the image: C17580_STRADA-2X2-SHD-WHT OSERAM OSLON Square PC FWHM / FWTM Asymmetric EED OSLON Square PC FWHM / FWTM Asymmetric Efficiency 87 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White	
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: C17580_STRADA-2X2-SHD-WHT C17580_STRADA-2X2-SHD-WHT Image: Component in the image: C17580_STRADA-2X2-SHD-WHT OSERAM OSLON Square PC FWHM / FWTM Asymmetric EED OSLON Square PC FWHM / FWTM Asymmetric Efficiency 87 % Peak intensity 0.7 cd/lm LEDs/each optic 1	27 67 07 07 07 07
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: C17580_STRADA-2X2-SHD-WHT C17580_STRADA-2X2-SHD-WHT Image: Component in the image: C17580_STRADA-2X2-SHD-WHT COSEAM Image: C17580_STRADA-2X2-SHD-WHT Over Semiconductors Image: C17580_STRADA-2X2-SHD-WHT LED OSLON Square PC FWHM / FWTM Asymmetric Efficiency 87 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: Image: C17580_STRADA-2X2-SHD-WHT	10 10 10 10 10 10 10 10 10 10 10 10 10 1
FWHM / FWTM Asymmetric Efficiency 84 % Peak intensity 0.7 cd/lm LEDs/each optic 1 Light colour White Required components: C17580_STRADA-2X2-SHD-WHT C17580_STRADA-2X2-SHD-WHT Image: Component in the image: C17580_STRADA in	20 10 10 10 10 10 10 10 10 10 1



PHILIPS		90° 90
LED	Fortimo FastFlex LED 2x2 DA G5	
FWHM / FWTM	Asymmetric	75° 75'
Efficiency	73 %	
Peak intensity	0.6 cd/lm	60* 200
LEDs/each optic	1	
Light colour	White	45' 45
Required components:		400
C17580_STRADA-22	(2-SHD-WHT	
Protective plate	a dass	200
	, 9035	30 ⁴ 23 ⁵ 0 ⁶ 25 ⁴ 30 ⁴
PHILIPS		90°* 90
LED	Fortimo FastFlex LED 2x2 DA G5	
FWHM / FWTM	Asymmetric	350
Efficiency	84 %	
Peak intensity	0.7 cd/lm	560°
LEDs/each optic	1	400
Light colour	White	45* 45
Required components:		
C17580_STRADA-22	(2-SHD-WHT	
		\times
		50° 500 30
	1	15 ² 0 ⁶ 15 ⁴
PHILIPS		90*
LED	Fortimo FastFlex LED 2x8 DA G5	
FWHM / FWTM	Asymmetric	75°
Efficiency	83 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	451 45
Required components:		
Protective plate		000
Fiblective plat	z, glass	
		30* 12 ⁵ 0* 13 ⁵ 30'
SAMSUN	IG	90* 90
LED	HILOM RM8 Z (LH502C)	, in the second se
FWHM / FWTM	Asymmetric	73% 78
Efficiency	85 %	
Peak intensity	0.6 cd/lm	60*
LEDs/each optic	1	
Light colour	White	45*
Required components:		
Destantion		
Protective plate	5, yidoo	
		30° 300
		30* <u>30</u> 30* <u>30</u> 30* <u>30</u>



SAMSUN	IG	
LED	LH351B	90* 91
FWHM / FWTM	Asymmetric	720 / 200 /
Efficiency	81 %	
Peak intensity	0.6 cd/lm	505
LEDs/each optic	1	
Light colour	White	
Required components:	white	40 e
Required components.		
Protective plate	e, glass	00
		150° 15° 0° 15° 30
SAMSUN	IG	50°
LED	LH351C	a
FWHM / FWTM	Asymmetric	730
Efficiency	78 %	
Peak intensity	0.6 cd/lm	in the second se
LEDs/each optic	1	30
Light colour	White	45* 400 42
Required components:		
Protective plate		XIIX
i i totective plate	, giass	600
		20 ⁴ 700 30
SECUL		99* 99
LED	MJT 5050	
FWHM / FWTM	Asymmetric	75%
Efficiency	93 %	
Peak intensity	0.6 cd/lm	60°
LEDs/each optic	1	400
Light colour	White	67° C
Required components:		600
		30* 13 ⁵ 0 ⁶ 15 ⁶ 30
SEOUL		
SEOUL SEMICONDUCTOR		90* 90
LED	SEOUL DC 5050 6V	75%
FWHM / FWTM	Asymmetric	
Efficiency	95 %	654
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	$X / T \land X$
	White	45*
Light colour		
Light colour Required components:		
		00
		00



SEOUL		
	7510	90*
	Z5M3	75
FWHM / FWTM	Asymmetric	
Efficiency	82 %	601
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	400
Light colour	White	45'
Required components:		600
Protective plate	e. glass	
		30* 15* 0* 15*
SEOUL		
SEOUL SEMICONDUCTOR		90°
LED	Z5M4	
FWHM / FWTM	Asymmetric	
Efficiency	83 %	50 ⁴
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	400
Light colour	White	454
Required components:		X X
Protective plate		
FIDIECTIVE Plat	z, ylass	
		30* 35* 800 15*
SEQUE		20° 159 66 157
SEOUL SEMICONDUCTOR		20° <u>60</u> 20°
SEOUL SEMICONDUCTOR	Z8Y19	
seoul semiconductor LED FWHM / FWTM	Asymmetric	20 ¹ 20 ² 20 ²
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 90 %	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.6 cd/lm 4	23 ⁴ <u>66</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u> <u>12⁴</u>
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm	
stoul stanconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.6 cd/lm 4	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 4	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 4	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 4	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.6 cd/lm 4	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.6 cd/lm 4	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 90 % 0.6 cd/lm 4 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED	Asymmetric 90 % 0.6 cd/lm 4 White Z8Y19	
SEQUI SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEQUI SEMICONDUCTOR LED FWHM / FWTM	Asymmetric 90 % 0.6 cd/lm 4 White Z8Y19 Asymmetric	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 90 % 0.6 cd/lm 4 White Z8Y19 Asymmetric 93 %	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.6 cd/lm 4 White Z8Y19 Asymmetric 93 % 0.9 cd/lm	
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	Asymmetric 90 % 0.6 cd/lm 4 White Z8Y19 Asymmetric 93 % 0.9 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 4 White Z8Y19 Asymmetric 93 % 0.9 cd/lm	
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	Asymmetric 90 % 0.6 cd/lm 4 White Z8Y19 Asymmetric 93 % 0.9 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 4 White Z8Y19 Asymmetric 93 % 0.9 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 4 White Z8Y19 Asymmetric 93 % 0.9 cd/lm 1	



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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