

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 1



MATERIAL SPECIFICATIONS:

Component STRADA-2X2-T2

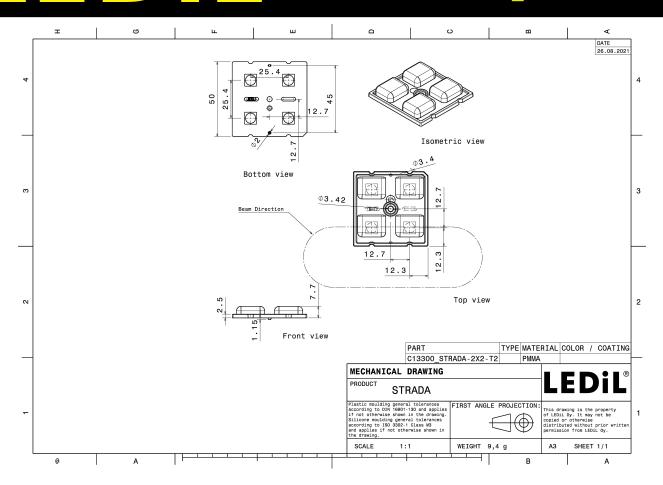
Туре
Multi-lens

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



bridgelux LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Bridgelux SMD 5050 Asymmetric 94 % 0.7 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x4 xxx LS G5 Asymmetric 94 % 1 cd/lm 1 White hts:	
LED FWHM / FWTM	QUICK FLUX XTP 2x6 xxx LS G5 Asymmetric	00 00 00 00 00 00 00 00 00 00 00 00 00
Efficiency Peak intensity LEDs/each optic Light colour Required componer	94 % 1 cd/lm 1 White	67 69 67. 69 69 67.
		90 90 90 90 90 90 90 90 90 90 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XB-D Asymmetric 94 % 1.1 cd/m 1 White tts:	77
		2000 2000 2000 2000 2000 2000 2000 200



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		939
LED	XD16	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	0.7 cd/lm	
LEDs/each optic	4	
Light colour	White	200
Required compone	nts:	200
		159
		90* 90*
LED	XD16	
FWHM / FWTM	Asymmetric	73°
Efficiency	94 %	10 ⁴
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	× ~ ~ ×
Light colour	White	45' 45'
Required compone	nts:	8/0
		1000
		30° 1230 0° 10° 30°
		15 ⁴ 0 ⁶ 15 ⁴
LED	XM-L	
LED FWHM / FWTM	XM-L Asymmetric	····
LED FWHM / FWTM Efficiency	XM-L Asymmetric 94 %	. A M
LED FWHM / FWTM Efficiency Peak intensity	XM-L Asymmetric 94 % 0.8 cd/lm	••••••••••••••••••••••••••••••••••••••
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XM-L Asymmetric 94 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XM-L Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L Asymmetric 94 % 0.8 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L Asymmetric 94 % 0.8 cd/lm 1 White nts: XM-L2 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L Asymmetric 94 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L Asymmetric 94 % 0.8 cd/lm 1 White nts: XM-L2 Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XM-L Asymmetric 94 % 0.8 cd/lm 1 White nts: XM-L2 Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/lm 1 White nts: XM-L2 Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/lm 1 White nts: XM-L2 Asymmetric 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XM-L Asymmetric 94 % 0.8 cd/lm 1 White nts: XM-L2 Asymmetric 94 % 0.7 cd/lm 1 White	



CREE LED	XM-L3 Asymmetric 96 % 0.9 cd/lm 1 White	
CREE LED	XP-G Asymmetric 94 % 1.1 cd/lm 1 White	
CREE LED	XP-G2 Asymmetric 91 % 1 cd/lm 1 White	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G2 HE Asymmetric 94 % 0.8 cd/m 1 White	



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 Required components: CREE \$ LED LED XP-L2 FWMM / FWTM Asymmetric Efficiency 94% Peak intensity 0.8 dd/m LEDs/each optic 1 Lght colour White			
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Efficiency 96 % Peak intensity 1 cd/m Light colour White Required components: Image: Components of the comp			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
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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
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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
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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° di
	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° 40° 00° 40° 00°
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 componen Required componen COMPACT 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 Component Required component 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 Component Required component 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 Component Required component 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	



M LUMIL	EDS	
LED	LUXEON Q	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	1.1 cd/lm	50* 400 60*.
LEDs/each optic	1	
Light colour	White	45° 600 42°
Required compone		
		800
		1000
		30* 30* 30*
UMIL	EDS	90° 90°
LED	LUXEON R	2
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	1 cd/lm	60 ⁺ 60 ⁺
LEDs/each optic	1	
Light colour	White	5°. 5°.
Required compone	nts:	600
		\times
		80
		30* 30* 30*
	EDS	90° 90°
		8,
LED	LUXEON Rebel ES	90 70 70 70
LED FWHM / FWTM		91° 92°
LED FWHM / FWTM Efficiency	LUXEON Rebel ES Asymmetric	97 97 97 97 97 97 97 97 97 97 97 97 97 9
LED FWHM / FWTM	LUXEON Rebel ES Asymmetric 94 %	90° 50° 60°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm	90° 72° 60° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White	97 97 60 67 69 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White	97 97 60 60 60 67 60 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White	50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White Its:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White nts: EDS LUXEON T Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Model and the set of t	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White nts: EDS LUXEON T Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Mediate Compone Equired compone Mediate Compone Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White nts: EDS LUXEON T Asymmetric 94 % 1.1 cd/lm	
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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Compone Equired compone Compone Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White nts: EDS LUXEON T Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Compone Equired compone Compone Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White nts: EDS LUXEON T Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Component Required component Component Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1.1 cd/lm 1 White nts: 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° 15°
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 9 ²
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	39 40 13 97 12 0 13 97 13 0 13 15
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 MST Vour soluti 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 MST 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	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 Required component 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	



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LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone	NCSxx19A Asymmetric % 1 White	
ØNICHI		¹⁰
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NS9x383 Asymmetric 94 % 0.8 cd/lm 1 White	
ØNICHI/		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 94 % 0.9 cd/lm 1 White	
ØNICHI		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 1 cd/lm 1 White	



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Μ ΝΙCΗΙΛ		90* 90*
LED	NVSW219F	
FWHM / FWTM	Asymmetric	73°
Efficiency	96 %	
Peak intensity	1 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45*
Required componer	ts:	000
		800
		15 - 1850 - 15*
ΜΝΙCΗΙΛ		90* 90*
LED	NVSW319B	31
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	1 cd/lm	60 ⁴
LEDs/each optic	1	
Light colour	White	45* 67*
Required componer	ts:	
		\times / \setminus \times
		00
		0 ¹ 15 ⁵ 0 ⁶ 15 ⁶
ΜΝΙCΗΙΛ		90* 90*
LED	NVSW3x9A	2
FWHM / FWTM	Asymmetric	732 732
Efficiency	94 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	400
Light colour	White	6° 6 [*]
Required componer	ts:	000
		30* 30* 30*
Mauciua		
Μ ΝΙCΗΙΛ		90* 90*
LED	NVSxE21A	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60° 400 60°.
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	X
Light colour	White	45* 45*
Required componer	ts:	80
		1000
		$\times / \top \times$
		30* 1220 30*
		13 ⁵ 9 ⁶ 15 ⁴



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
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		81° 80°
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 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 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 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 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:	



PHILIF	S	81
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 0 % 1 White Ints:	
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RC12 Z (LH181B) Asymmetric 98 % 1.2 cd/lm 1 White	
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH12 Z (LH351C) Asymmetric 96 % 0.9 cd/lm 1 White	
SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RH16 (LH351C) Asymmetric 94 % 0.9 cd/lm 1 White	



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: JNG 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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S ΛΜSL	ING	
LED	LH351C	90* 90*
EED FWHM / FWTM	Asymmetric	750 750
Efficiency	94 %	2 Al
Peak intensity	94 % 1 cd/lm	103
LEDs/each optic	1	
Light colour	u White	
Required compone		- 67° - 65°
Required compone		
		\times / \top / \times
		30° 15° 30°
SAMSU	ING	
LED	LH351D	90° 90°
FWHM / FWTM	Asymmetric	251 761
Efficiency	94 %	
Peak intensity	0.8 cd/lm	60 ⁴ 66*
LEDs/each optic	1	
Light colour	White	400
Required compone		
		500
		30* 25 ⁵ 0 ⁶ 15* 30*
злмзі	ING	30° <u>00</u> 23° 30°
SAMSU		90° 12° 0° 13° 90°
LED	LH351Z	30* 13 ⁵ 0 ⁶ 13* 30 ⁴
LED FWHM / FWTM	LH351Z Asymmetric	30* 10* 10* 30* 90* 37* 37* 90* 90* 90* 90* 90* 90* 90* 90
LED FWHM / FWTM Efficiency	LH351Z Asymmetric 94 %	30" 10" 10" 30" 10" 0" 10" 30" 10" 0" 10" 10" 10" 0" 10" 10" 0" 10" 0" 1
LED FWHM / FWTM Efficiency Peak intensity	LH351Z Asymmetric 94 % 1 cd/lm	20* 20 ⁵ 0 ⁶ 10* 30* 0 ⁶ 10* 0 ⁶ 0 ⁶ 0 ⁷ 0 ⁶ 0 ⁸ 0 ⁶ 0 ⁶
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z Asymmetric 94 % 1 cd/lm 1	20* 20 [*] 20* 30* 0* 20* 0* 0* 0* 0* 0* 0* 0* 0* 0*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 1 cd/lm 1 White	20* <u>10</u> * <u>10</u> * <u>30</u> *
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z 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	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	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 1 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 1 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 1 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351Z Asymmetric 94 % 1 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity	LH351Z Asymmetric 94 % 1 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z Asymmetric 94 % 1 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANNSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 1 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351Z Asymmetric 94 % 1 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 1 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351Z Asymmetric 94 % 1 cd/lm 1 White Ints:	



Elektronik GmbH		ant
	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	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	400
Light colour	White	45* 45*
Required componer	nts:	640
		\wedge / \top \wedge \vee
		800
		30° 30° 30° 30°
SEOUL		
SEOUL SEMICONDUCTOR		90° 90°
LED	Z5P	750 770
EED FWHM / FWTM	Asymmetric	
Efficiency	%	60° 60°
LEDs/each optic		460
Light colour Required componer	White	45° 600 45°
Required componer	IIS.	
		000
		30* 1000 30* 30*
SEOUL		
SEOUL SEMICONDUCTOR		89°
SEOUL SEMICONDUCTOR	Z8Y22	59° 59°
seoul semiconductor LED FWHM / FWTM	Asymmetric	39° 90°
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 94 %	50° 50° 50°
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/m	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1	50°
SEOUL 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	80°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	5°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	90 90 90 90 90 90 90 90 90 90
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 94 % 1.1 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 94 % 1.1 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 94 % 1.1 cd/lm 1 White	30° 32° 0° 33° 0°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen SEOUL SEMICONDUCTOR	Asymmetric 94 % 1.1 cd/lm 1 White hts:	30° <u>13°</u> 0° <u>33°</u> 30°
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component SEOUL SEMICONDUCTOR LED FWHM / FWTM	Asymmetric 94 % 1.1 cd/lm 1 White hts: Z8Y22P	30° 32° 0° 33° 0°
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stour semiconductor LED FWHM / FWTM Efficiency	Asymmetric 94 % 1.1 cd/lm 1 White hts: Z8Y22P Asymmetric	30° <u>13°</u> 0° <u>33°</u> 30°
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stour semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1.1 cd/lm 1 White hts: Z8Y22P Asymmetric 94 %	30° 32° 0° 33° 0°
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/m 1 White hts: Z8Y22P Asymmetric 94 % 1 cd/lm 1	30° 32° 0° 33° 0°
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White ts: Z8Y22P Asymmetric 94 % 1 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1.1 cd/lm 1 White ts: Z8Y22P Asymmetric 94 % 1 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White ts: Z8Y22P Asymmetric 94 % 1 cd/lm 1 White	
stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component stoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1.1 cd/lm 1 White ts: Z8Y22P Asymmetric 94 % 1 cd/lm 1 White	



TOSHIBA Leading Innovation >>>		
	TL1L3	90* 90*
FWHM / FWTM	Asymmetric	751 781
Efficiency	94 %	
Peak intensity	0.8 cd/lm	.004 604
LEDs/each optic	1	
Light colour	White	400
Required compone		
	no.	600
		30° 800 15° 30°
TOSHIBA Leading Innovation >>>		20*
	TL1L4	30°
EED FWHM / FWTM	Asymmetric	772 772
Efficiency	93 %	
Peak intensity	1 cd/lm	604 × 104
LEDs/each optic	1	400
Light colour	White	67 67
Required compone		
i toqui ou oompono		
		900
		30° 15° 30°
TRIDON		
LED	RLE 2x4 2000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
	no.	
TRIDON	liC	90° 90°
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	754 20 75
—	94 %	
Efficiency		1.01*
Efficiency Peak intensity	1.3 cd/lm	
	1.3 cd/lm 1	
Peak intensity		6, 60 6 ⁰
Peak intensity LEDs/each optic	1 White	47.
Peak intensity LEDs/each optic Light colour	1 White	67 00 67
Peak intensity LEDs/each optic Light colour	1 White	6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6
Peak intensity LEDs/each optic Light colour	1 White	er 00 100 00 00 00 00 00 00 00 0



TRIDO	NIC	100 T
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	····
FWHM / FWTM	Asymmetric	····
Efficiency	94 %	70 -
Peak intensity	1.1 cd/im	•••
LEDs/each optic	1	·····
Light colour	White	
Required compone		
		100 -
		-106-0* -102-0* -46-0* -422-0* 6-0* -22-0* 6-0* -22-0* 10-0* 102-0* 100-0
TRIDO	NIC	30* 94
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	25
Efficiency	94 %	
Peak intensity	1.1 cd/lm	50 ⁴
LEDs/each optic	1	\times / \wedge \times
Light colour	White	6. A A
Required compone	ents:	
		1000
		30° 30° 30° 30°
TDIDO		
TRIDO	NIC	ו•
	RLE G1 49x223mm 4000lm xxx EXC OTD	
		**• M
LED	RLE G1 49x223mm 4000lm xxx EXC OTD	
LED FWHM / FWTM Efficiency Peak intensity	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone TRIDON Efficiency Peak intensity LEDs/each optic Light colour	RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White ents:	



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	\$04 504
	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	30 ¹
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	



		90*
LED	J Series 5050 Square LES	
FWHM / FWTM	Asymmetric	730
Efficiency	82 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45*
Required components:		
Protective plate	, glass	000
		30* <u>800</u> 30* <u>30</u> *
		90°
LED	ХВ-Н	75°
FWHM / FWTM	Asymmetric	
Efficiency	91 %	60* 60*
LEDs/each optic	1	400
Light colour	White	45*
Required components:		600
		800
		30° 13° 0° 15° 30°
LED	XHP35 HD	
FWHM / FWTM	Asymmetric	
Efficiency	90 %	
LEDs/each optic	1	
Light colour	White	
Required components:		
LED	ХНР35 НІ	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
LEDs/each optic	1	
Light colour	White	
Required components:	WHITE	
Required components:		



		90* 90*
LED	XP-G2	
FWHM / FWTM	Asymmetric	730 770 770
Efficiency	86 %	
Peak intensity	0.8 cd/lm	60° 60*
LEDs/each optic	1	400
Light colour	White	5° 5
Required components:		50
C17580_STRADA-2>	(2-SHD-WHT	
_		810
		\times / \setminus \times
		30* 15 ³ 0* 15* 30*
		90* 90*
LED	XP-G2	
FWHM / FWTM	Asymmetric	75°
Efficiency	78 %	
Peak intensity	0.6 cd/lm	.60 ⁴ 604.
LEDs/each optic	1	400
Light colour	White	45* 45*
Required components:		\times
		500
Protective plate	e, glass	
1		
		20* 860 30* 30* 30*
		90°
	XP-G2 HE	<u>30*</u> <u>30*</u> <u>30*</u> <u>30*</u> <u>30*</u> <u>80*</u> <u>80*</u> <u>80*</u> <u>80*</u> <u>80*</u>
	XP-G2 HE Asymmetric	20* <u>20⁵</u> <u>60⁶</u> <u>20</u> * <u>90⁵</u> <u>10*</u> <u>10</u> * <u>10*</u>
LED		20* <u>10</u> * 00 20* 00
LED FWHM / FWTM	Asymmetric	20* <u>12⁵ 0⁶</u> 27* 28 ⁵
LED FWHM / FWTM Efficiency	Asymmetric 84 %	201- 201-
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.6 cd/lm	201 ⁻ 12 ⁰ 00 ⁰ 201 ⁻ 12 ⁰ 00 ⁰ 201 ⁻ 00 ⁰ 201
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.6 cd/lm 1	50° 10 ⁰ 10 ⁰ 10 ⁰ 10 ⁰
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.6 cd/lm 1 White	20 ¹ 10 ² 0 ²
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.6 cd/lm 1 White	50° 10° 10° 20° 10° 10° 20° 10° 10° 10° 10° 10° 10° 10° 10° 10°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2)	Asymmetric 84 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2)	Asymmetric 84 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2)	Asymmetric 84 % 0.6 cd/lm 1 White (2-SHD-WHT	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2)	Asymmetric 84 % 0.6 cd/lm 1 White K2-SHD-WHT XP-G3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2)	Asymmetric 84 % 0.6 cd/lm 1 White K2-SHD-WHT XP-G3 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2)	Asymmetric 84 % 0.6 cd/lm 1 White K2-SHD-WHT XP-G3 Asymmetric 81 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-22 C17580_STRADA-22 ELED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.6 cd/lm 1 White K2-SHD-WHT XP-G3 Asymmetric 81 % 0.6 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-22 C17580_STRADA-22 ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.6 cd/lm 1 White (2-SHD-WHT XP-G3 Asymmetric 81 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) CTEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.6 cd/lm 1 White XP-G3 Asymmetric 81 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-22 C17580_STRADA-22 C17580_STRADA-22 ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.6 cd/lm 1 White XP-G3 Asymmetric 81 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-22 C17580_STRADA-22 C17580_STRADA-22 C17580_STRADA-22 C17580_STRADA-22 C17580_STRADA-22	Asymmetric 84 % 0.6 cd/lm 1 White XP-G3 Asymmetric 81 % 0.6 cd/lm 1 White	



		49
LED	XP-G3	···
FWHM / FWTM	Asymmetric	••••••••••••••••••••••••••••••••••••••
Efficiency	77 %	"
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		19
C17580_STRADA-2X	2-SHD-WHT	100
Protective plate	glass	
		90° 90°
LED	XQ-E HD	
FWHM / FWTM	Asymmetric	75 28 72
Efficiency	93 %	
Peak intensity	1 cd/lm	80° 60° 60° _
LEDs/each optic	1	
Light colour	White	45° 600 63°
Required components:		
		\times / \top / \times
		115 ³ 0 ⁶ 15 ⁴
UMILED	S	90* 90*
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	Asymmetric	20
Efficiency	81 %	
Peak intensity	0.7 cd/lm	60°.
LEDs/each optic	1	400
Light colour	White	45*
Required components:		
Protective plate	glass	\mathbf{X}
		30* 30* 30*
	S	
		20
		738
		50 ⁴ 60 ⁴ .
		80
		X X
		1000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 3030 2D (Round LES) Asymmetric 94 % 0.9 cd/lm 1 White	



)S	90* 90*
LED	LUXEON 3030 2D (Square LES)	
FWHM / FWTM	Asymmetric	75° 77°.
Efficiency	82 %	
Peak intensity	0.6 cd/lm	,60 ⁴ 60 ⁴ .
LEDs/each optic	1	40
Light colour	White	6° 6°
Required components:		
Desta stive selet		00
Protective plate	a, glass	
		30° 15° 0° 15° 30°
)S	80° 80°
LED	LUXEON 3030 2D (Square LES)	
FWHM / FWTM	Asymmetric	750 220 750
Efficiency	95 %	
Peak intensity	0.9 cd/lm	.53 ⁴ 400 50*.
LEDs/each optic	1	
Light colour	White	45° 600 65°
Required components:		\times
		800
		1000
LUMILED	DS	90* 90*
LED	LUXEON 5050 Round LES	~
FWHM / FWTM	Asymmetric	73°
Efficiency	86 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	400
Light colour	White	61 61
Required components:		\times
Protective plate		60
FIDIECTIVE plate	a, yiass	\times / \mid \setminus \times
		30° 15° 30° 15° 30°
)S	90* 90*
LED	LUXEON 5050 Square LES	51
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.7 cd/lm	6°*
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		600
riedanea comberioritor		
		\times / \setminus \times
		20
		00



		90* 90*
LED	LUXEON 5050 Square LES	
FWHM / FWTM	Asymmetric	
Efficiency	85 %	50* 01 50*
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	400
Light colour	White	45' 65'
Required components:		
Protective plat	e, glass	
		30* 800 30* 30*
UMILEI	DS	90*
LED	LUXEON 5050 Square LES	
FWHM / FWTM	Asymmetric	75*
Efficiency	86 %	
Peak intensity	0.6 cd/lm	50° 50°
LEDs/each optic	1	400
Light colour	White	45*
Required components:		
C17580_STRADA-2	X2-SHD-WHT	600
		\times / \setminus \times
		30* 000 30*
A		15' 0' 15'
	JS	50° - 50°
		2 ¹ 2 ¹
LED	LUXEON H50-2	30 ¹ 90 ¹
LED FWHM / FWTM	LUXEON H50-2 Asymmetric	
LED FWHM / FWTM Efficiency	LUXEON H50-2	90° 90°
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	LUXEON H50-2 Asymmetric %	
LED FWHM / FWTM Efficiency LEDs/each optic	LUXEON H50-2 Asymmetric % 1	90°
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	LUXEON H50-2 Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	LUXEON H50-2 Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour	LUXEON H50-2 Asymmetric % 1	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: WIM / COMPARENT LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components: With Compose Composed LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	200
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON H50-2 Asymmetric % 1 White	200



	DS	90* 90*
LED	LUXEON HL2X	
FWHM / FWTM	Asymmetric	734 781
Efficiency	92 %	
Peak intensity	0.7 cd/lm	604 604
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		000
		010
		\times / \land λ
		30° 15 ⁵ 0 ⁶ 15° 30°
	DS	90* 90*
LED	LUXEON V2	
FWHM / FWTM	Asymmetric	736 20 700
Efficiency	94 %	
Peak intensity	0.8 cd/lm	400
LEDs/each optic	1	
Light colour	White	45° 000 45°
Required components:		\times
		800
		\times \land \land \times
		30* 1000 30* 30*
Μ ΝΙCΗΙΛ		
	NI/////R356M	90* 90*
LED	NV4WB35AM Asymmetric	22
LED FWHM / FWTM	Asymmetric	24 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
LED FWHM / FWTM Efficiency	Asymmetric 95 %	94 124 124 124 124 124 124 124 124 124 12
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 95 % 0.7 cd/lm	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm	5° 60 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.7 cd/lm 1	92* 92* 73* 60 65* 60 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1	90° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 95 % 0.7 cd/lm 1	20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1	20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White NVSW219F	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White NVSW219F Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White NVSW219F Asymmetric 82 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White NVSW219F Asymmetric 82 % 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	Asymmetric 95 % 0.7 cd/lm 1 White NVSW219F Asymmetric 82 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White NVSW219F Asymmetric 82 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 95 % 0.7 cd/lm 1 White NVSW219F Asymmetric 82 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 95 % 0.7 cd/lm 1 White NVSW219F Asymmetric 82 % 0.7 cd/lm 1 White	
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 Required components:	Asymmetric 95 % 0.7 cd/lm 1 White NVSW219F Asymmetric 82 % 0.7 cd/lm 1 White	



A		
ΜΝΙCΗΙΛ		
LED	NVSW519A	30° 27 90°
FWHM / FWTM	Asymmetric	75°
Efficiency	93 %	20
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required components:	wille	45* 45*
Required components.		600
		\times / \setminus \times
		80
		(30* 13 ⁵ 0* 15* 30*
ΜΝΙCΗΙΛ		NY FT
LED	NVSW519A	90° 90° 90°
ED FWHM / FWTM	Asymmetric	73%
Efficiency	83 %	
Peak intensity	0.5 cd/lm	654 200
LEDs/each optic	1	X / 300 X
Light colour	White	
Required components:		
		500
Protective plate	e, glass	
		600
		30* 15 ² 10 ³ 30*
ΜΝΙCΗΙΛ		90° 90°
LED	NVSxE21A	3
FWHM / FWTM	Asymmetric	750 750
	Asymmetric	
Efficiency	83 %	
Efficiency Peak intensity		Er Er
	83 %	
Peak intensity	83 % 0.5 cd/lm	
Peak intensity LEDs/each optic	83 % 0.5 cd/lm 4	67° 600 67°
Peak intensity LEDs/each optic Light colour Required components:	83 % 0.5 cd/lm 4 White	61 ⁻ 60 ⁻ 60 ⁻ 60 ⁻ 60 ⁻ 60 ⁻
Peak intensity LEDs/each optic Light colour	83 % 0.5 cd/lm 4 White	20 ⁴ 00 60 ⁴ 00
Peak intensity LEDs/each optic Light colour Required components:	83 % 0.5 cd/lm 4 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	83 % 0.5 cd/lm 4 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	83 % 0.5 cd/lm 4 White	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	83 % 0.5 cd/m 4 White 9, glass NVSxE21A	134 14 15 15 15 15 15 15 15 15 15 15
Peak intensity LEDs/each optic Light colour Required components: Protective plate	83 % 0.5 cd/m 4 White e, glass NVSxE21A Asymmetric	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	83 % 0.5 cd/m 4 White p, glass NVSxE21A Asymmetric 96 %	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	83 % 0.5 cd/m 4 White p, glass NVSxE21A Asymmetric 96 % 0.6 cd/m	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	83 % 0.5 cd/m 4 White p, glass NVSxE21A Asymmetric 96 % 0.6 cd/m 4	20 ² <u>64</u> <u>19²</u> 90 ² <u>10</u> 10 ² <u>10</u> <u>10</u> 10 ² <u>10</u> 10 ² <u>10</u> <u>10</u> 10 ² <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u> <u>10</u>
Peak intensity LEDs/each optic Light colour Required components: Protective plate WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	83 % 0.5 cd/m 4 White p, glass NVSxE21A Asymmetric 96 % 0.6 cd/m	
Peak intensity LEDs/each optic Light colour Required components: Protective plate	83 % 0.5 cd/m 4 White p, glass NVSxE21A Asymmetric 96 % 0.6 cd/m 4	50° 60° 50°
Peak intensity LEDs/each optic Light colour Required components: Protective plate WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	83 % 0.5 cd/m 4 White p, glass NVSxE21A Asymmetric 96 % 0.6 cd/m 4	50° 60° 50°
Peak intensity LEDs/each optic Light colour Required components: Protective plate MICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	83 % 0.5 cd/m 4 White p, glass NVSxE21A Asymmetric 96 % 0.6 cd/m 4	50° 60° 50°



ΜΝΙCΗΙΛ		90° 90°
LED	NVSxE21A	34
FWHM / FWTM	Asymmetric	73°
Efficiency	80 %	
Peak intensity	0.8 cd/lm	60* 60*
LEDs/each optic	1	400
Light colour	White	457
Required components:		
		660
Protective plate	, glass	\times
		30* 15 ⁵ 0* 15* 30*
ØNICHI Λ		90 ⁺ 90 ⁺
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	75°
Efficiency	82 %	
Peak intensity	0.7 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		
Protective plate	, glass	
		30* 30*
ØNICHI Λ		90°
LED	NVSxx19B/NVSxx19C	a di se di s
FWHM / FWTM	Asymmetric	75°
Efficiency	81 %	20
Peak intensity	0.6 cd/lm	60 ⁴ 601.
LEDs/each optic	1	
Light colour	White	45* 45*
Required components:		
_		540
Protective plate	, glass	
		30° 30° 30° 30°
OSRAM Opto Semiconductors		90 [*]
LED	Duris S8	
FWHM / FWTM	Asymmetric	750 750
Efficiency	80 %	
Peak intensity	0.6 cd/lm	50% 60%
LEDs/each optic	1	
Light colour	White	457. 400
Required components:		
C17677_STRADA-2X	2-SHD-BLK	500
		\times / \times /



000444		
OSRAM Opto Semiconductors		90* 90*
LED	Duris S8	9
FWHM / FWTM	Asymmetric	73°
Efficiency	80 %	
Peak intensity	0.5 cd/lm	504 604
LEDs/each optic	1	
Light colour	White	400 43*
Required components:		
Protective plate	, glass	
		30° 710 30°
OSRAM		
Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (2W version)	
FWHM / FWTM	Asymmetric	
Efficiency	92 %	
Peak intensity	0.9 cd/lm	400
LEDs/each optic	1	
Light colour	White	45* 600 45*
Required components:		\times \land \times
		X X
		2000
		15 0 15
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ P 3737 (3W version)	ET .
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60*
LEDs/each optic	1	400
Light colour	White	45*
Required components:		
		\times
		810
		\times
OCDAM		30* <u>10⁵ 10⁶ 15</u> * 30*
OSRAM Opto Semiconductors		90° 20° 30° 30° 30° 30° 30° 30° 30° 30° 30° 3
	OSLON Square CSSRM2/CSSRM3	92* 10 ⁵ 10 ⁵ 10 ⁵ 10 ⁵
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3 Asymmetric	13 ¹
Opto Semiconductors		23 ⁴ 23 ⁵ 20 ⁵ 23 ⁵ 29 ⁴
Opto Semiconductors LED FWHM / FWTM	Asymmetric	20 - 20 - 20 - 20 - 20 - 20 - 20 - 20 -
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 84 %	13 ²⁴ 13 ² 10 ³ 13 ² 20 ³
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.7 cd/lm 1	67 20 20 20 20 20 20 20 20 20 20 20 20 20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.7 cd/lm 1 White	6 ⁵ 10 ⁶ 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.7 cd/lm 1 White	13 ¹⁰ 12 ¹⁰ 13 ¹⁰ 13 ¹⁰ 13 ¹⁰ 13 ¹⁰
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.7 cd/lm 1 White	



OCDAM		
OSRAM Opto Semiconductors		90* 90*
	OSLON Square PC	
	Asymmetric	734 754
	87 %	
	0.7 cd/lm	60* 60*
	1	
	White	400
Required components:		
		600
Protective plate,	glass	
		30° 30° 30° 30°
PHILIPS		90* 90*
LED	Fortimo FastFlex LED 2x2 DA G5	
FWHM / FWTM	Asymmetric	75°
Efficiency	73 %	
Peak intensity	0.6 cd/lm	60°.
LEDs/each optic	1	
	White	45*
Required components:		400
C17580_STRADA-2X2	2-SHD-WHT	
		200
Protective plate,	glass	50° 600 30°
		133 ⁵ 0 ⁶ 10 [*]
PHILIPS		90* 90*
LED	Fortimo FastFlex LED 2x2 DA G5	
FWHM / FWTM	Asymmetric	
Efficiency	84 %	
	04 70	80*
	0.7 cd/lm	60*
LEDs/each optic	0.7 cd/lm 1	60 60
LEDs/each optic Light colour	0.7 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic Light colour Required components:	0.7 cd/lm 1 White	6° 67
LEDs/each optic Light colour	0.7 cd/lm 1 White	60 ⁴ 67. 67 69
LEDs/each optic Light colour Required components:	0.7 cd/lm 1 White	60 ⁴ 60 ⁴
LEDs/each optic Light colour Required components:	0.7 cd/lm 1 White	
LEDs/each optic Light colour Required components: C17580_STRADA-2X2	0.7 cd/lm 1 White	er
LEDs/each optic Light colour Required components: C17580_STRADA-2X2	0.7 cd/lm 1 White 2-SHD-WHT	
LEDs/each optic Light colour Required components: C17580_STRADA-2X2	0.7 cd/lm 1 White P-SHD-WHT Fortimo FastFlex LED 2x8 DA G5	
LEDs/each optic Light colour Required components: C17580_STRADA-2X2 PHILIPS LED FWHM / FWTM	0.7 cd/lm 1 White P-SHD-WHT Fortimo FastFlex LED 2x8 DA G5 Asymmetric	
LEDs/each optic Light colour Required components: C17580_STRADA-2X2 PHILIPS LED FWHM / FWTM Efficiency	0.7 cd/lm 1 White P-SHD-WHT Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 %	
LEDs/each optic Light colour Required components: C17580_STRADA-2X2 PHILIPS LED FWHM / FWTM Efficiency Peak intensity	0.7 cd/lm 1 White P-SHD-WHT Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.7 cd/lm	
LEDs/each optic Light colour Required components: C17580_STRADA-2X2 PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.7 cd/lm 1 White 2-SHD-WHT Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.7 cd/lm 1	
LEDs/each optic Light colour Required components: C17580_STRADA-2X2 PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.7 cd/lm 1 White P-SHD-WHT Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.7 cd/lm	
LEDs/each optic Light colour Required components: C17580_STRADA-2X2 PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.7 cd/lm 1 White 2-SHD-WHT Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.7 cd/lm 1	
LEDs/each optic Light colour Required components: C17580_STRADA-2X2 DHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	0.7 cd/lm 1 White P-SHD-WHT Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.7 cd/lm 1 White	
LEDs/each optic Light colour Required components: C17580_STRADA-2X2 PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.7 cd/lm 1 White P-SHD-WHT Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.7 cd/lm 1 White	



SAMSUR	N G	90*
LED	HiLOM RM8 Z (LH502C)	
FWHM / FWTM	Asymmetric	75°
Efficiency	85 %	
Peak intensity	0.6 cd/lm	66*
LEDs/each optic	1	
Light colour	White	45'
Required components:		640
Protective plat	e, glass	
		30* 15 ⁵ 0° 15*
SAMSUN	IG	80.0
LED	LH351B	
FWHM / FWTM	Asymmetric	750
Efficiency	81 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 400
Required components:		
Protective plat	e. glass	
		30° 700 15°
SAMSU	IC	
LED	LH351C	30.
FWHM / FWTM	Asymmetric	750
Efficiency	78 %	
Peak intensity	0.6 cd/lm	604
LEDs/each optic	1	30
Light colour	White	45* 400
Required components:		X/T/X
Protective plat	e, glass	
		30* 700
SEOUL		30* 15 ⁵ 0 ⁸ 15*
SEOUL SEMICONDUCTOR		90*
LED	MJT 5050	
FWHM / FWTM	Asymmetric	73*
Efficiency	93 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		000
		\times / \times
		200
		(30* 15° 0° 15*



SEOUL SEMICONDUCTOR		90° 90°
LED	SEOUL DC 5050 6V	n n n
FWHM / FWTM	Asymmetric	730 751
Efficiency	95 %	
Peak intensity	0.6 cd/lm	60* · · · · · · · · · · · · · · · · · · ·
LEDs/each optic	1	400
Light colour	White	45* 45*
Required components:		600
		\wedge / T / \vee
		800
		30° 15° 30°
SEOUL		90* 90*
SEOUL SEMICONDUCTOR	Z5M3	
FWHM / FWTM	Asymmetric	75°
Efficiency	82 %	
Peak intensity	0.6 cd/im	.50*
LEDs/each optic	1	
Light colour	' White	400
Required components:	White	-61
Required components.		640
Protective plate	, glass	
		30° 800 30° 30°
SEOUL SEMICONDUCTOR		90* 90*
LED	Z5M4	
FWHM / FWTM	Asymmetric	75°
Efficiency	83 %	20
Peak intensity		
LEDs/each optic	0.7 cd/lm	. 60 ⁴ 60 ⁴
LED3/Caun Uplic	0.7 cd/lm 1	6 ¹⁴ 6 ³⁴
		60 ⁴ 67.
Light colour	1	60° 67.
Light colour Required components:	1 White	60° 60.
Light colour	1 White	60° 60° 60°
Light colour Required components:	1 White	60° (0°) 60° (0°) 60° (0°)
Light colour Required components: Protective plate	1 White	
Light colour Required components: Protective plate	1 White	
Light colour Required components: Protective plate	1 White	
Light colour Required components: Protective plate SECOUL SEMICONDUCTOR LED	1 White e, glass Z8Y19	
Light colour Required components: Protective plate scoul semiconoucror LED FWHM / FWTM	1 White e, glass Z8Y19 Asymmetric	
Light colour Required components: Protective plate stoul semconductor LED FWHM / FWTM Efficiency	1 White e, glass Z8Y19 Asymmetric 93 %	
Light colour Required components: Protective plate second semiconductor LED FWHM / FWTM Efficiency Peak intensity	1 White e, glass Z8Y19 Asymmetric 93 % 0.9 cd/lm	
Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White e, glass Z8Y19 Asymmetric 93 % 0.9 cd/lm 1	20 ³ <u>60</u> <u>10³</u> 20 ⁴ <u>20</u> 60 ⁴ <u>60</u>
Light colour Required components: Protective plate FOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White e, glass Z8Y19 Asymmetric 93 % 0.9 cd/lm	
Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White e, glass Z8Y19 Asymmetric 93 % 0.9 cd/lm 1	20 ³ <u>60</u> <u>10³</u> 20 ⁴ <u>20</u> 60 ⁴ <u>60</u>
Light colour Required components: Protective plate FOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White e, glass Z8Y19 Asymmetric 93 % 0.9 cd/lm 1	20 ³ <u>60</u> <u>10³</u> 20 ⁴ <u>20</u> 60 ⁴ <u>60</u>
Light colour Required components: Protective plate FOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White e, glass Z8Y19 Asymmetric 93 % 0.9 cd/lm 1	20 ³ <u>60</u> <u>10³</u> 20 ⁴ <u>20</u> 60 ⁴ <u>60</u>
Light colour Required components: Protective plate SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White e, glass Z8Y19 Asymmetric 93 % 0.9 cd/lm 1	20 ³ <u>60</u> <u>10³</u> 20 ⁴ <u>20</u> 60 ⁴ <u>60</u>



SEOUL		
SEOUL SEMICONDUCTOR		50° 50°
LED	Z8Y19	
FWHM / FWTM	Asymmetric	781
Efficiency	90 %	
Peak intensity	0.6 cd/lm	-108 - 108 -
LEDs/each optic	4	40
Light colour	White	40° (3)
Required component	is:	60
		80
		20° 10° 10°



GENERAL INFORMATION:

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

MATERIALS:

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