

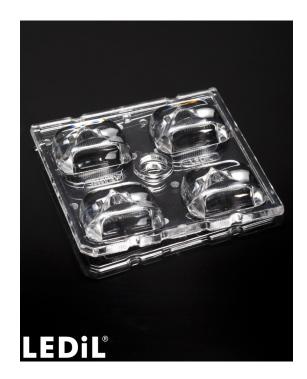
PRODUCT DATASHEET C13299_STRADA-2X2-ME

STRADA-2X2-ME

Beam with excellent longitudinal luminance uniformity fulfilling EN13201 M-class requirements where road width is equal to or less the pole height

TECHNICAL SPECIFICATIONS:

Dimensions Height Fastening ROHS compliant 50.0 x 50.0 mm 7.1 mm glue, pin, screw yes ⁽¹⁾



MATERIAL SPECIFICATIONS:

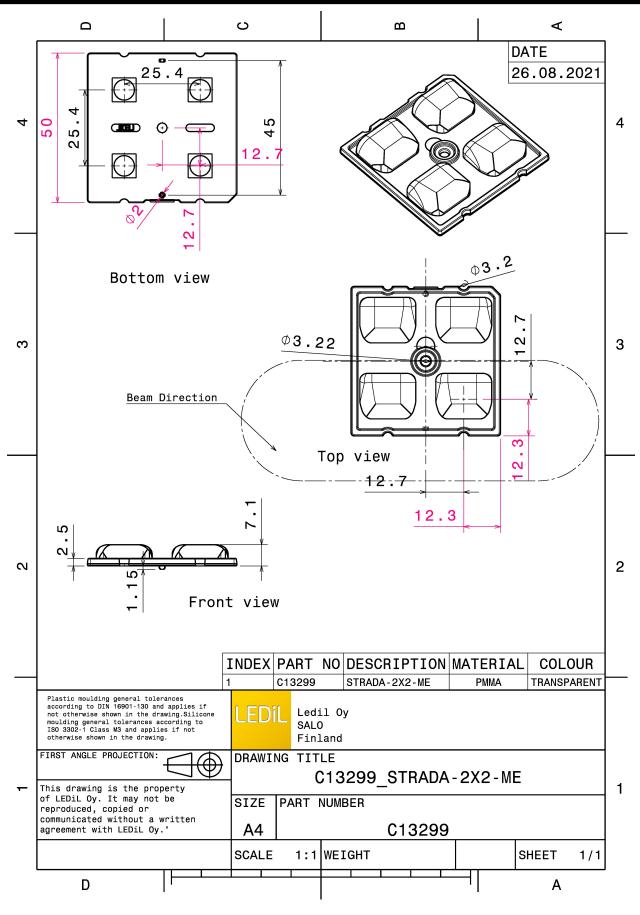
ComponentTypeSTRADA-2X2-MEMulti-lens

Material	Colour	Finish
PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13299_STRADA-2X2-ME	800	160	160	7.9
» Box size: 480 x 280 x 300 mm				

PRODUCT DATASHEET C13299_STRADA-2X2-ME



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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 componer	Bridgelux SMD 5050 Asymmetric 94 % 0.5 cd/lm 1 White tts:	20- 12- 10- 10- 10- 10- 10- 10- 10- 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x4 xxx LS G5 Asymmetric 94 % 0.9 cd/lm 1 White hts:	9 ³ 33 6 ³ 6 ³ 6 ³ 6 ³ 6 ³ 6 ³ 6 ³
		000 20 ⁴ 0 ²⁰ 20 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x6 xxx LS G5 Asymmetric 94 % 0.9 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	QUICK FLUX XTP 2x8 xxx LS G5 Asymmetric 94 % 0.9 cd/lm 1 White hts:	50° (0° (0° (0° (0° (0° (0° (0° (0° (0° (



		90*
LED	- XB-D	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	1.2 cd/lm	60° 60°
LEDs/each optic	1	400
Light colour	White	45° 500 65°
Required componer		
		00
		700
		80
		30 ⁺ 15 ⁰ 40 ⁰ 15 ⁺ 30 ⁺
		69 60 20
LED	XD16	*** ***
FWHM / FWTM	Asymmetric	······································
Efficiency	94 %	200
Peak intensity	0.6 cd/lm	
LEDs/each optic	4	229
Light colour	White	
Required componer	nts:	129
		1)
		29
		-116.0" -112.6" -49.4" -49.4" -22.5" 6.6" 22.5" 65.4" 67.5" 97.6" 112.6" 116.6"
		81*
LED	XD16	THAY YAT
LED FWHM / FWTM	XD16 Asymmetric	THAY YAT
LED FWHM / FWTM Efficiency	XD16 Asymmetric 94 %	THAY YAT
LED FWHM / FWTM Efficiency Peak intensity	XD16 Asymmetric 94 % 1.1 cd/m	91- 200 210 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XD16 Asymmetric 94 % 1.1 cd/m 1	91- 200 210 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XD16 Asymmetric 94 % 1.1 cd/m 1 White	91- 200 210 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XD16 Asymmetric 94 % 1.1 cd/m 1 White	80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XD16 Asymmetric 94 % 1.1 cd/m 1 White	80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XD16 Asymmetric 94 % 1.1 cd/m 1 White	80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XD16 Asymmetric 94 % 1.1 cd/m 1 White	80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	XD16 Asymmetric 94 % 1.1 cd/lm 1 White hts:	201 201 201 201 201 201 201 201
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XD16 Asymmetric 94 % 1.1 cd/m 1 White hts:	201 201 201 201 201 201 201 201
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XD16 Asymmetric 94 % 1.1 cd/m 1 White hts:	201 201 201 201 201 201 201 201
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREEE>LED LED FWHM / FWTM	XD16 Asymmetric 94 % 1.1 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED LED FWHM / FWTM Efficiency	XD16 Asymmetric 94 % 1.1 cd/lm 1 White hts: XM-L Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity	XD16 Asymmetric 94 % 1.1 cd/lm 1 White hts: XM-L Asymmetric 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XD16 Asymmetric 94 % 1.1 cd/m 1 White hts: XM-L Asymmetric 94 % 0.7 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XD16 Asymmetric 94 % 1.1 cd/m 1 White hts: XM-L Asymmetric 94 % 0.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XD16 Asymmetric 94 % 1.1 cd/m 1 White hts: XM-L Asymmetric 94 % 0.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XD16 Asymmetric 94 % 1.1 cd/m 1 White hts: XM-L Asymmetric 94 % 0.7 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XD16 Asymmetric 94 % 1.1 cd/m 1 White hts: XM-L Asymmetric 94 % 0.7 cd/m 1 White	



		80° 27 80°
LED	XM-L2	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	200 60*
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	*
Light colour	White	45* 400 45*
Required compone	nts:	\times
		30* 30° 30°
LED	XM-L3	201
FWHM / FWTM	Asymmetric	120
Efficiency	97 %	300 100100
Peak intensity	0.8 cd/lm	39 20 30
LEDs/each optic	1	229
Light colour	White	
Required component	nts:	
		139
		29
		-18.5" -18.4" -47.5" -45.6" -22.5" 6.5" 22.5" 66.7 55.5" 65.5" 102.5" 102.5"
		90* 90*
LED	XP-E2	
FWHM / FWTM	Asymmetric	75° 70°
		kan
Efficiency	94 %	
Efficiency Peak intensity	94 % 1.3 cd/lm	.65* 60*.
		6× 67.
Peak intensity	1.3 cd/lm	
Peak intensity LEDs/each optic	1.3 cd/lm 1 White	60 ¹ 60 67
Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1 White	60 ¹ 67 60 60
Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1 White	6 ¹ 6 ¹ 6 ⁰ 6 ⁰
Peak intensity LEDs/each optic Light colour	1.3 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required componen	1.3 cd/m 1 White hts:	00 30 ⁴ 30 ⁴
Peak intensity LEDs/each optic Light colour Required component	1.3 cd/lm 1 White hts:	00 30* 10 [*] 10 [*] 30*
Peak intensity LEDs/each optic Light colour Required component CREE (LED	1.3 cd/lm 1 White hts: XP-G	00 30 ⁴ 30 ⁴
Peak intensity LEDs/each optic Light colour Required component CREE (LED EWHM / FWTM	1.3 cd/lm 1 White hts: XP-G Asymmetric	
Peak intensity LEDs/each optic Light colour Required component CREE COMPONENT LED FWHM / FWTM Efficiency	1.3 cd/m 1 White hts: XP-G Asymmetric 94 %	
Peak intensity LEDs/each optic Light colour Required component CREE UP LED FWHM / FWTM Efficiency Peak intensity	1.3 cd/m 1 White hts: XP-G Asymmetric 94 % 1 cd/lm	
Peak intensity LEDs/each optic Light colour Required component EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1.3 cd/lm 1 White hts: XP-G Asymmetric 94 % 1 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required component EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.3 cd/m 1 White XP-G Asymmetric 94 % 1 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required component EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1.3 cd/m 1 White XP-G Asymmetric 94 % 1 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required component EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.3 cd/m 1 White XP-G Asymmetric 94 % 1 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required component EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.3 cd/m 1 White XP-G Asymmetric 94 % 1 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required component CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1.3 cd/m 1 White XP-G Asymmetric 94 % 1 cd/lm 1 White	



		90° 90°
LED	XP-G2	3
FWHM / FWTM	Asymmetric	750 100 750
Efficiency	94 %	
Peak intensity	1.1 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45*
Required component		X T *** T X
		700
		90° 000 90° 90° 90°
		90° 90°
LED	XP-G3	100
FWHM / FWTM	Asymmetric	734
Efficiency	94 %	
Peak intensity	0.9 cd/lm	50° 300 60°.
LEDs/each optic	1	40
Light colour	White	45° 550 45°
Required compone	nts:	
		600
		710
		300 300
	_	
	XP-G3	<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
		99 ⁴ 75 ⁴ 100 75 ⁴
LED	XP-G3	
LED FWHM / FWTM	XP-G3 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G3 Asymmetric 88 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts:	300 - 70°. 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White	300 - 70°. 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts:	300 - 70°. 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts:	300 - 70°. 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: IA-2X2-SHD-WHT	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: IA-2X2-SHD-WHT	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 % 0.8 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen C17580_STRAD	XP-G3 Asymmetric 88 % 0.8 cd/lm 1 White nts: A-2X2-SHD-WHT XP-G3 Asymmetric 76 % 0.8 cd/lm 1 White nts:	



ODEE A MET		
		90° 90°
LED	 XP-L HD	5
FWHM / FWTM	Asymmetric	75* 200 75*
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	400
Required component		(6°
	113.	200
		600
		700
		30° 13° 30°
LED	XP-L HI	3
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	1 cd/lm	634 694
LEDs/each optic	1	30
Light colour	White	400 47
Required component		
	115.	
		600
		X No X
		30° 13 ² 0° 13° 30°
SILLE Y.		9/*
		90* 90*
LED	XP-L2	20 20 20 By
LED FWHM / FWTM	XP-L2 Asymmetric	5
LED FWHM / FWTM Efficiency	XP-L2 Asymmetric 94 %	5
LED FWHM / FWTM Efficiency Peak intensity	XP-L2 Asymmetric 94 % 0.6 cd/m	5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L2 Asymmetric 94 % 0.6 cd/lm 1	25- 60 ⁻⁵ 20 80 80 80 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.6 cd/m 1 White	5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L2 Asymmetric 94 % 0.6 cd/m 1 White	25- 60 ⁻⁵ 20 80 80 80 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.6 cd/m 1 White	25- 60 ⁻⁵ 20 80 80 80 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.6 cd/m 1 White	25- 60 ⁻⁵ 20 80 80 80 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.6 cd/m 1 White	25- 60 ⁻ 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-L2 Asymmetric 94 % 0.6 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	XP-L2 Asymmetric 94 % 0.6 cd/m 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED LED FWHM / FWTM	XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component CREE LED LED FWHM / FWTM Efficiency	XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White hts: XT-E Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity	XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White hts: XT-E Asymmetric 94 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White hts: XT-E Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White nts: XT-E Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White nts: XT-E Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White nts: XT-E Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic Light colour	XP-L2 Asymmetric 94 % 0.6 cd/lm 1 White nts: XT-E Asymmetric 94 % 1 cd/lm 1 White	



		90* 90*
LED	EHP-2x8-3535	5
FWHM / FWTM	Asymmetric	751 100 751
Efficiency	97 %	200
Peak intensity	0.9 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	40
Required componer		45* 500 45*
	10.	640
		700
		30° <u>800</u> 30° 15° 30°
		INY PH
LED	EHP-2x8-5050	90* 90*
EED FWHM / FWTM	Asymmetric	75* 100 75*
Efficiency	97 %	
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
		45* 460 45*
Required componer	IS.	20
		660
		30° 15° 700 15° 30°
	EDS	MA KM
		90* 90*
LED	LUXEON 5050 Round LES	75* 100 75*
FWHM / FWTM	Asymmetric	
Efficiency	94 %	50%
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45+ 400 45*
Required componer	its:	800
		600
		30* 155 300 15* 30*
	EDS	
		90* 90*
LED	LUXEON MZ	750
FWHM / FWTM	Asymmetric	
Efficiency	94 %	504 504
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	40
Light colour	White	45*
Required componer	nts:	
		X X
		30° 800 30°
		30



🤭 LUMIL	EDS	90* 0v*
LED	LUXEON Q	3
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	he he
Peak intensity	1 cd/lm	60 ⁴ 3% 65 ⁴
LEDs/each optic	1	400
Light colour	White	-55 550 551
Required compone		
		700
		810
		30* 30* 30*
UMIL	EDS	90° 90°
LED	LUXEON R	
FWHM / FWTM	Asymmetric	730 700 700
Efficiency	94 %	
Peak intensity	0.9 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	400
Light colour	White	-6°
Required compone	nts:	640
		800
		30° 30° 30° 30° 30°
	EDS	50°
	EDS LUXEON Rebel ES	8.
		91 ⁴ 75 ⁴ 75 ⁴
LED	LUXEON Rebel ES	94 79 70 70 70 70 70 70
LED FWHM / FWTM	LUXEON Rebel ES Asymmetric	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency	LUXEON Rebel ES Asymmetric 94 %	90° 73 66° 60°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm	97 75 66 67 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	90° 73° 63° 65° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	92 ⁴ 53 ⁴ 63 ⁴ 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	92° 13° 13° 10° 10° 10° 10° 10° 10° 10° 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White	50° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Rebel ES Asymmetric 94 % 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 cd/lm 1 White Ints:	80° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 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 cd/lm 1 White Ints:	80° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White Ints:	80° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/m 1 White nts: EDS LUXEON T Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White Ints: EDS LUXEON T Asymmetric 94 % 1 cd/lm	00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White nts: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White nts: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White nts: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Rebel ES Asymmetric 94 % 1 cd/lm 1 White nts: EDS LUXEON T Asymmetric 94 % 1 cd/lm 1 White	



🕙 LUMIL	EDS	90* 90*
LED	LUXEON TX	3
FWHM / FWTM	Asymmetric	78°
Efficiency	94 %	200
Peak intensity	1 cd/lm	160°
LEDs/each optic	1	
Light colour	White	400
Required compone	nts:	200
		300 300
	EDC	13° and 13°
		90* 90*
LED	LUXEON V	100
FWHM / FWTM	Asymmetric	
Efficiency	94 %	60*
Peak intensity	0.7 cd/lm	× / 20
LEDs/each optic	1	400
Light colour	White	6°
Required compone	nts:	
		30° 15° 0° 15° 30°
	EDS	
LED	LUXEON V2	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Efficiency Peak intensity	94 %	50 ⁴ 300 67
Peak intensity		60°
Peak intensity LEDs/each optic	94 % 0.9 cd/lm	
Peak intensity LEDs/each optic	94 % 0.9 cd/lm 1 White	60
Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White	60
Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White	64 -99 -99 -99 -99 -99 -99 -99 -99 -99 -9
Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required component	94 % 0.9 cd/lm 1 White nts:	
Peak intensity LEDs/each optic Light colour Required componer	94 % 0.9 cd/lm 1 White hts:	
Peak intensity LEDs/each optic Light colour Required componer	94 % 0.9 cd/lm 1 White hts: EDS LUXEON Z ES	
Peak intensity LEDs/each optic Light colour Required componer	94 % 0.9 cd/m 1 White hts: EDS LUXEON Z ES Asymmetric	
Peak intensity LEDs/each optic Light colour Required componer	94 % 0.9 cd/m 1 White nts: EDS LUXEON Z ES Asymmetric 94 %	
Peak intensity LEDs/each optic Light colour Required component Model of the second sec	94 % 0.9 cd/m 1 White hts: EDS LUXEON Z ES Asymmetric 94 % 1.4 cd/m	
Peak intensity LEDs/each optic Light colour Required component Composition Required component Required component Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.9 cd/m 1 White hts: EDS LUXEON Z ES Asymmetric 94 % 1.4 cd/m 1	
Peak intensity LEDs/each optic Light colour Required component Composition Required component Required component Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/m 1 White TS: EDS LUXEON Z ES Asymmetric 94 % 1.4 cd/m 1 White	
Peak intensity LEDs/each optic Light colour Required component Composition Education Education FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/m 1 White TS: EDS LUXEON Z ES Asymmetric 94 % 1.4 cd/m 1 White	
Peak intensity LEDs/each optic Light colour Required component Composition Required component Required component Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 0.9 cd/m 1 White TS: EDS LUXEON Z ES Asymmetric 94 % 1.4 cd/m 1 White	
Peak intensity LEDs/each optic Light colour Required component Composition Required component Required component Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 0.9 cd/m 1 White TS: EDS LUXEON Z ES Asymmetric 94 % 1.4 cd/m 1 White	200 200 700 200 200



MST Your solut	ions	90 ⁺
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	75* (100 75*
Efficiency	97 %	200
Peak intensity	0.9 cd/lm	60%
LEDs/each optic	1	
Light colour	White	400 45*
Required compone		
		600
		710
		(30° 135 ⁵ 0° 15° 30°
		30*
LED	NS9x383	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	
Peak intensity	0.6 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	400 45°
Required compone	nts:	50
		600
		30° 700 30°
MNICHIA		THY EFT
		8°
LED	NVSW219D	24 ⁴ 250
LED FWHM / FWTM	NVSW219D Asymmetric	81 ⁴ 10 10 10 10 10 10 10 10 10 10
LED FWHM / FWTM Efficiency	NVSW219D Asymmetric 86 %	
LED FWHM / FWTM Efficiency Peak intensity	NVSW219D Asymmetric 86 % 0.6 cd/lm	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW219D Asymmetric 86 % 0.6 cd/lm 1	61 ⁴ 200 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White	61 ⁴ 200 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White	61 ⁴ 200 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White	61 ⁴ 200 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts:	61 ⁴ 200 60 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts: NVSW219D Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts: NVSW219D Asymmetric 94 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts: NVSW219D Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts: NVSW219D Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts: NVSW219D Asymmetric 94 % 0.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D Asymmetric 86 % 0.6 cd/lm 1 White nts: NVSW219D Asymmetric 94 % 0.8 cd/lm 1 White	



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∕∕ NICHI∕		50* 90*
LED	NVSW219F	3
FWHM / FWTM	Asymmetric	73*
Efficiency	94 %	200
Peak intensity	0.9 cd/lm	50 ⁴ 300 50 ⁴
LEDs/each optic	1	$X \times T X X$
Light colour	White	400 45%
Required compone	nts:	200
		700
		3 ¹ 43 ² 0 ⁰ 13 ² 3 ¹
∕∕ NICHI∕		90° 90°
LED	NVSW219F	3
FWHM / FWTM	Asymmetric	730 200 732
Efficiency	97 %	200
Peak intensity	0.9 cd/lm	, S1 ⁴ 340 50 ⁴
LEDs/each optic	1	
Light colour	White	457 400
Required compone	nts:	
		640
		700
<i>(</i>)		19
ØNICHI∕		90* 90*
LED	NVSW319B	7 200
FWHM / FWTM	Asymmetric	700 770
Efficiency	94 %	
Peak intensity	0.8 cd/lm	. b ⁰
LEDs/each optic	1	× / 400
Light colour	White	.67
Required compone	nts:	500
		600
		740
		30° 17° 30°
ØNICHI		90* 90*
LED	NVSW3x9A	200
FWHM / FWTM	Asymmetric	
Efficiency	94 %	Eur Est
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	451 451
Required compone	nts:	
		60
		X THO
		30* 35 ³ 80 15* 30*
		15 8% 15



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𝖉 NICHI∕		90* 90*
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	75 50 75
Efficiency	94 %	
Peak intensity	0.9 cd/lm	eit xo
LEDs/each optic	1	
Light colour	White	45*
Required compone		
		00
		710
		30° <u>800</u> 30° 15° 30°
ØNICHI ∕		50° 50°
LED	NWSx229A	4
FWHM / FWTM	Asymmetric	75 150 75
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60 ⁴
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required compone	onts:	
		000
		30°
		15, 80 15,
OSRAM	1	90* 90°
OSRAN	PL-BRICK HP 3800 2x8 SSG	8°
		99° 99° 79° 100 99°
LED	PL-BRICK HP 3800 2x8 SSG	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM	PL-BRICK HP 3800 2x8 SSG Asymmetric	90°
LED FWHM / FWTM Efficiency	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 %	50 ⁴ 50 ⁴ 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White	60 ⁷ 20 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White	60 ⁷ 20 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White	60 ⁷ 20 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White	60 ⁷ 20 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents: PrevaLED Brick HP 2x8 Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents: PrevaLED Brick HP 2x8 Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents: PrevaLED Brick HP 2x8 Asymmetric 94 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents: PrevaLED Brick HP 2x8 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents: PrevaLED Brick HP 2x8 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents: PrevaLED Brick HP 2x8 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	PL-BRICK HP 3800 2x8 SSG Asymmetric 96 % 0.8 cd/lm 1 White ents: PrevaLED Brick HP 2x8 Asymmetric 94 % 1 cd/lm 1 White	



0000444		
OSRAM Opto Semiconductors		90* 90*
LED	Duris S8	5
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.5 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	
Required compone		400
Required compone		
		30° 45° 0° 15° 30°
OSRAM Opto Semiconductors		2 ⁴
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	770 100 /20
Efficiency	94 %	
Peak intensity	1 cd/lm	50° 50°
LEDs/each optic	1	
Light colour	White	-55° 400 57°
Required compone		
		640
		700
		30° 30°
		10 ⁵ 0 ⁶ 15 ⁶
OSRAM Opto Semiconductors		80, 72, 0, 73,
Opto Semiconductors	OSLON Square PC	90. 25 ₂ 0, 15,
Opto Semiconductors	OSLON Square PC Asymmetric	22 ³ 0 ³ 12 ⁵
opto Semiconductors LED FWHM / FWTM	Asymmetric	22 ³ 0 ³ 23 ⁵
^{opto Semiconductors} LED FWHM / FWTM Efficiency	Asymmetric 94 %	90° 12° 00° 10° 10° 10° 10° 10° 10° 10
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm	20 ³ 0 ³ 10 ³
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White Ints:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White Ints:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White Ints:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White ints: S Fortimo FastFlex LED 2x8 DA G4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE LED FWHM / FWTM	Asymmetric 94 % 1 cd/lm 1 White ints: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE LED FWHM / FWTM Efficiency	Asymmetric 94 % 1 cd/lm 1 White ints: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm 1 White ints: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.1 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White ints: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White ints: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White ints: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White ints: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White ints: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone PPHILLE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White ints: S Fortimo FastFlex LED 2x8 DA G4 Asymmetric 94 % 1.1 cd/lm 1 White	



PHILIF	DS	
LED	Fortimo FastFlex LED 2x8 DA G4+	
FWHM / FWTM	Asymmetric	730 770
Efficiency	94 %	200
Peak intensity	0.8 cd/lm	60 ¹⁴
LEDs/each optic	1	
Light colour	White	459 460 65
Required compone	ints:	500
		30* 700 500
PHILIF		12 ⁵ 0 ⁶ 12 ⁵
		90 ¹ 90
	Fortimo FastFlex LED 2x8 DA G5	751 100 755
FWHM / FWTM	Asymmetric	
Efficiency	97 %	60 ⁴ 60 ⁴
Peak intensity	0.9 cd/lm	
LEDs/each optic	1 White	60
Light colour		45* 45
Required compone	115.	500
		710
		30° 15° 0° 15° 30°
SAMSI	ING	
LED	HiLOM RC12 Z (LH181B)	
	Asymmetric	75" 000 /5"
FWHM / FWTM Efficiency	Asymmetric 99 %	73
Efficiency	99 %	23 ⁴ 00 72 10 ⁴ 40 60
Efficiency Peak intensity		
Efficiency Peak intensity LEDs/each optic	99 % 1.2 cd/lm	
Efficiency Peak intensity LEDs/each optic	99 % 1.2 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	99 % 1.2 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	99 % 1.2 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	99 % 1.2 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	99 % 1.2 cd/lm 1 White ints:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	99 % 1.2 cd/lm 1 White Ints:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	99 % 1.2 cd/lm 1 White ints: UNG HiLOM RH12 Z (LH351C)	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	99 % 1.2 cd/lm 1 White INTS: UNG HiLOM RH12 Z (LH351C) Asymmetric	000 1000 1000 1000 1000 1000 1000 1000
Efficiency Peak intensity LEDs/each optic Light colour Required compone	99 % 1.2 cd/lm 1 White ints:	000 1
Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity	99 % 1.2 cd/lm 1 White ints:	200 200 200 200 200 200 200 200 200 200
Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	99 % 1.2 cd/lm 1 White ints:	200 200 200 200 200 200 200 200 200 200
Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	99 % 1.2 cd/lm 1 White mts:	200 200 200 200 200 200 200 200 200 200
Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	99 % 1.2 cd/lm 1 White mts:	200 200 200 200 200 200 200 200 200 200
Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	99 % 1.2 cd/lm 1 White mts:	200 200 200 200 200 200 200 200 200 200
Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity	99 % 1.2 cd/lm 1 White mts:	000 1



0.0.0.0.		
S ΛΜS	JNG	59° 50°
		710 710
LED	HiLOM RH16 (LH351C)	
FWHM / FWTM	Asymmetric	50° 200 60°.
Efficiency	%	
LEDs/each optic Light colour	1 White	
Required compone		- CC * 400 - CC * .
		50
		600
		30° 13° 30°
SAMSI	JNG	50° 50°
LED	HiLOM RM12 Z (LH502C)	4
FWHM / FWTM	Asymmetric	75° 100 75°
Efficiency	97 %	200
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 40 45*
Required compone	ints:	
		500
		600
		30° 30°
		VV
SAMSI	JNG	
		10° 10° 10°
SAMSU	JNG HiLOM RM16 Z (LH502C) Asymmetric	99° 39° 39°
LED	HiLOM RM16 Z (LH502C)	
LED FWHM / FWTM	HiLOM RM16 Z (LH502C) Asymmetric	
LED FWHM / FWTM Efficiency	HiLOM RM16 Z (LH502C) Asymmetric 99 %	20 00 00 00 00 00 00 00 00 00 00 00 00 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	- 40 56
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 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 LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 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 LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	HiLOM RM16 Z (LH502C) Asymmetric 99 % 0.6 cd/lm 1 White ents:	



SΛMSι	JNG	90* 90*
LED	LH351B	~
FWHM / FWTM	Asymmetric	75*
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60* 60*
LEDs/each optic	1	300
Light colour	White	45*
Required compone		400
		500
		6/0
		30° 13 ² 0° 15° 30°
SΛMSι	JNG	50°
LED	LH351C	3
FWHM / FWTM	Asymmetric	73* 100 73*
Efficiency	94 %	
Peak intensity	0.7 cd/lm	60°
LEDs/each optic	1	
Light colour	White	45° 45*
Required compone	nts:	400
		500
		800
		15 ⁵ 0 ⁶ 15 ⁴
SAMSU	JNG	50* 50*
	JNG LH351D	8°
		gr ³ 20 20 20
LED	LH351D	50° 50° 20° 700 70°
LED FWHM / FWTM	LH351D Asymmetric	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency	LH351D Asymmetric 94 %	20 20 20 20 20 20 20 00 00
LED FWHM / FWTM Efficiency Peak intensity	LH351D Asymmetric 94 % 0.6 cd/lm	5° - 5° 20 - 10° 6° - 30° - 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 94 % 0.6 cd/lm 1 White	5° 99 100 6° 00 6° 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White	5° - 90 20 - 100 6° - 0° 6° - 0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	5° 0° 5° 6° 0° 5° 6° 0° 5° 6° 0° 5° 8° 0° 5° 8° 0° 5° 8° 0° 5° 8° 0° 5° 8° 0° 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351D Asymmetric 94 % 0.6 cd/lm 1 White Its:	21- 20- 20- 20- 20- 20- 20- 20- 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	LH351D Asymmetric 94 % 0.6 cd/lm 1 White Its SING LH508A Asymmetric 94 %	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity	LH351D Asymmetric 94 % 0.6 cd/lm 1 White Its:	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 94 % 0.6 cd/lm 1 White Its SING LH508A Asymmetric 94 %	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	500 500 500 500 500 500 500 500 500 500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	60 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	60 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	50 50 50 50 50 50 50 50 50 50 50 50 50 5
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	LH351D Asymmetric 94 % 0.6 cd/lm 1 White nts:	60 50 50 50 50 50 50 50 50 50 5



Elektronik GmbH		91 [*]
	LED-Pa-L15c2W11c2-xxx-C050-01	
FWHM / FWTM	Asymmetric	
Efficiency	98 %	
Peak intensity	1 cd/lm	504 604
LEDs/each optic	1	
Light colour	White	460
Required componer		
		640
		30* <u>8%</u> 30* 30*
SEOUL		THAT ALL
SEOUL SEMICONDUCTOR	Acrich MJT 4040	90* 90*
EED FWHM / FWTM		73°
Efficiency	Asymmetric 94 %	
Peak intensity	94 % 0.8 cd/lm	50 700 60*
LEDs/each optic	1	
Light colour	White	400
Required componer		43* 5%
	IIO.	600
		30* 800 30*
		15 ³ 0° 15°
SEOUL		12 ³ 0 ³ 12 ³
SEOUL SEMICONDUCTOR	7514	12 ³ 0 ⁴ 13 ⁵
seoul semiconductor	Z5M	22 ³ 0 ⁴ 12 ⁵
seoul semiconductor LED FWHM / FWTM	Asymmetric	122 ³ 6 ³ 125 ⁴
seoul semiconductor LED FWHM / FWTM Efficiency	Asymmetric 94 %	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White nts:	
stour SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 94 % 1 cd/lm 1 White hts: Z5M1/Z5M2	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer stour semiconductor LED FWHM / FWTM	Asymmetric 94 % 1 cd/lm 1 White hts: Z5M1/Z5M2 Asymmetric	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency	Asymmetric 94 % 1 cd/lm 1 White hts: Z5M1/Z5M2 Asymmetric 94 %	
seou semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer seou semiconductor LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm 1 White hts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White hts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm 1	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White hts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White hts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White hts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm 1 White	
stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Stour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White hts: Z5M1/Z5M2 Asymmetric 94 % 0.8 cd/lm 1 White	



SEOUL		
SEOUL SEMICONDUCTOR	Z5M3	90* 90*
EED FWHM / FWTM	Asymmetric	770 100 770
Efficiency	94 %	
Peak intensity	94 % 0.8 cd/lm	80° 60°
	1	
LEDs/each optic	1 White	400
Light colour Required compone		- 65° - 500 - 65°
Required compone	113.	
		700
		30° 15° 30°
SEOUL		
SEOUL SEMICONDUCTOR		90* 90*
LED	Z5M4	200 724
FWHM / FWTM	Asymmetric	
Efficiency	97 %	50* 200 50*
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required compone	nts:	500
		600
		30° 700 30° 30°
SECUL		
SEOUL SEMICONDUCTOR		90* 90*
	Z5P	9°
SEOUL SEMICONDUCTOR	Z5P Asymmetric	9/* 73* 0000000000000000000000000000000000
seoul semiconductor		90°
seoul semiconductor LED FWHM / FWTM	Asymmetric	90 ⁴ 73 60 ⁴ 60
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 %	92* 73* 04* 00*
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 1 cd/lm 1 White	
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 1 cd/lm 1 White	
stour stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White	
seour semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White	
stour stemiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White	
SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White nts:	
sEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Asymmetric 94 % 1 cd/lm 1 White Ints:	
seoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seoul semiconductor LED FWHM / FWTM	Asymmetric 94 % 1 cd/lm 1 White nts: Z8Y22 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 cd/lm 1 White nts: Z8Y22 Asymmetric 94 %	
seous semiconductore LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone seous semiconductore LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 1 cd/lm 1 White nts: Z8Y22 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 cd/lm 1 White nts: Z8Y22 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 cd/lm 1 White nts: Z8Y22 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 cd/lm 1 White nts: Z8Y22 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 cd/lm 1 White nts: Z8Y22 Asymmetric 94 % 1 cd/lm 1 White	



SEOUL				HY	ELT
SEOUL SEMICONDUCTOR	Z8Y22P		90*	5	90'
EED FWHM / FWTM			.751	100	
Efficiency	Asymmetric 94 %		$\setminus \mathcal{F}$	- Ale	
Peak intensity	94 % 0.8 cd/lm		50*	200	
LEDs/each optic					
LEDS/each oplic	1 White		\times	400	
Required compone			45*		
Required compone	5115.			600	
			\sim	700	
			\checkmark		
			30°	152 00	15* 30'
TOSHIBA				$+\gamma$	EFT
Leading Innovation >>>			90*	5	90'
LED	TL1L3		20.0		
FWHM / FWTM	Asymmetric			100	
Efficiency	94 %		618	200	
Peak intensity	0.7 cd/lm				
LEDs/each optic	1		\times	300	\searrow
Light colour	White		45*		45
Required compone	ents:			400	
			T		
			\checkmark	500	
			30°	15' %	15* 30'
TOSHIBA					V LTT
Leading Innovation >>>			90*	Ha	90'
LED	TL1L4			100	
FWHM / FWTM	Asymmetric		758		778
Efficiency	91 %			X to	
Peak intensity	0.9 cd/lm		$\langle \rangle$		
LEDs/each optic	1			400	
Light colour	White		45*		6
Required compone	ents:			500	
			\sim	600	
			\sim	700	
			30*	153 88	30
			L		19
TRIDON					
LED	RLE 2x4 2000lm HP EXC2 OTD				
FWHM / FWTM	Asymmetric				
Efficiency	94 %				
Peak intensity	1.1 cd/lm				
LEDs/each optic	1				
Light colour	White				
Required compone	ents:				



TRIDON		90° 90°
LED	RLE 2x8 4000lm HP EXC2 OTD	3
FWHM / FWTM	Asymmetric	75* 76*
Efficiency	94 %	
Peak intensity	1.1 cd/lm	604 604
LEDs/each optic	1	400
Light colour	White	45°
Required componer		
rioquilou componei	nu.	000
		\times
		30* 15 ³ 0 ⁵ 15* 30*
TRIDON		
		90* 90*
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	750 700
FWHM / FWTM	Asymmetric	400
Efficiency	94 %	50° 60°
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	200
Light colour	White	45* 43*
Required componer	nts:	1220
		30° 30°
		15 ³ 0 ⁶ 15 ⁶
TRIDON		90* 90*
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	75" - 70"
Efficiency	94 %	
Dook intersity	1.1 cd/lm	60*
reak intensity		
Peak intensity LEDs/each optic	1	000
LEDs/each optic		
LEDs/each optic Light colour	1 White	67 <u>80</u>
LEDs/each optic	1 White	67 <u>00</u> 67 <u>1230</u>
LEDs/each optic Light colour	1 White	45°
LEDs/each optic Light colour	1 White	5° 6°
LEDs/each optic Light colour Required componer	1 White hts:	6 ⁵ 12 ⁵ 10 ⁶ 12 ⁵ 10 ⁶ 10 ⁶
LEDs/each optic Light colour Required componer	1 White hts:	1230 24 ⁴ 22 ³ 0 ⁴ 12 ⁴ 39 ⁴
LEDs/each optic Light colour Required componen	1 White hts:	80° 10° 10° 10° 10° 10° 10° 10° 1
LEDs/each optic Light colour Required componen TRIDON	1 White hts: RLE G1 49x223mm 4000lm xxx EXC OTD	1230 24 ⁴ 22 ³ 0 ⁴ 12 ⁴ 39 ⁴
LEDs/each optic Light colour Required componen TRIDON LED FWHM / FWTM	1 White hts: RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric	1230 24 ⁴ 22 ³ 0 ⁴ 12 ⁴ 39 ⁴
LEDs/each optic Light colour Required componen TRIDON LED FWHM / FWTM Efficiency	1 White Its: RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 %	1230 24 ⁴ 22 ³ 0 ⁴ 12 ⁴ 39 ⁴
LEDs/each optic Light colour Required componen TRIDON LED FWHM / FWTM Efficiency Peak intensity	1 White Its: RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm	1230 24 ⁴ 22 ³ 0 ⁴ 12 ⁴ 39 ⁴
LEDs/each optic Light colour Required componen TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White Its: RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1	
LEDs/each optic Light colour Required componen TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White Its: RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White	
LEDs/each optic Light colour Required componen TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White Its: RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White	
LEDs/each optic Light colour Required componen TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White Its: RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White	1230 24 ⁴ 22 ³ 0 ⁴ 12 ⁴ 39 ⁴
LEDs/each optic Light colour Required componen TRIDON LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White Its: RLE G1 49x223mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White	

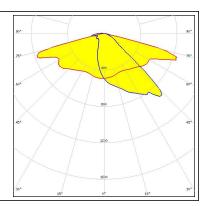


TRIDONIC

LED

FWHM / FWTMAsEfficiency94Peak intensity1.LEDs/each optic1Light colourWRequired components:

RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 % 1.1 cd/lm 1 White





LED	J Series 5050 Round LES	
FWHM / FWTM	Asymmetric	750 100 730
Efficiency	94 %	
Peak intensity	0.6 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	40
Required components:		500
		600
		770
		30* <u>15*</u> 0° <u>15*</u> 30*
		90* 90*
LED	J Series 5050 Round LES	9
FWHM / FWTM	Asymmetric	75°
Efficiency	80 %	
Peak intensity	0.4 cd/lm	60° 60*
LEDs/each optic	1	
Light colour	White	45* 30 45*
Required components:		40
		\times / \times
Protective plate	e, glass	500
		30* 30*
UNLL V LLD		90° 90°
		75%
	XB-H	
FWHM / FWTM	Asymmetric	504 604
Efficiency LEDs/each optic	91 % 1	
Light colour	White	
Required components:	winte	45* 400 45*
required components.		
		20
		50
		200 600 600 20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴
		50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
	XHP35 HD	50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED	XHP35 HD Asymmetric	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
LED FWHM / FWTM	Asymmetric	22 ³ 2 ⁴ / ₁₀ 12 ³
LED FWHM / FWTM Efficiency	Asymmetric 90 %	22 ³ 2 ⁴ / ₁₀ 12 ³
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric	22 ³ 2 ⁴ / ₁₀ 12 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 90 % 0.6 cd/lm	22 ³ 2 ⁴ / ₁₀ 12 ³
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 90 % 0.6 cd/lm 1	23° 25° 13° 29° 100 29° 100 29° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 1	23° 25° 13° 29° 100 29° 100 29° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 1	23° 25° 13° 29° 100 29° 100 29° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 90 % 0.6 cd/lm 1	23° 26° 13° 29° 100 75° 29° 100 75° 20° 100 75°



LED	XHP35 HI		
FWHM / FWTM	Asymmetric		
Efficiency	92 %		
LEDs/each optic	1		
Light colour	White		
Required components:			
LED	XP-G2		3
FWHM / FWTM	Asymmetric		736
Efficiency	79 %		
Peak intensity	0.6 cd/lm		60°
LEDs/each optic	1		
Light colour	White		637 200
Required components:			
			400
Protective plate	, glass		
			30* 15 ⁵ 0 ⁶ 15*
LED	XP-G2 HE		
FWHM / FWTM	Asymmetric		
Efficiency	92 %		
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required components:			
			900
LED	XP-G3		
FWHM / FWTM	Asymmetric		73%
Efficiency	75 %		
Peak intensity	0.6 cd/lm		60 ⁴
LEDs/each optic	1		
Light colour	White		45* 300
Required components:			
C17580_STRADA-2X	2-SHD-WHT		400
Protective plate	dass		
i ioteotive plate	, giuoo		30*



	Γ	177
ED XP-G3	2	
FWHM / FWTM Asymme	2 J	3
Efficiency 78 %		
	، 6	6°
LEDs/each optic 1		
Light colour White	4	5*
Required components:		
Protective plate, glass		
	6	0° 15 ³
	Γ.	. 17
LED XP-L2		
FWHM / FWTM Asymme	ic z	59
Efficiency 80 %		$\chi \chi$
Peak intensity 0.4 cd/lm	°	e / 7
LEDs/each optic 1		
Light colour White		× / →
Required components:		\times 1
Protective plate, glass		
	-	
	ذ <u>ا</u>	0*
	Ē.	
	2.	
LED XQ-E HI	7	30
FWHM / FWTM Asymme	ic	V A
•	<i>X</i>	or
Efficiency 90 %		o* \\\
Efficiency 90 % LEDs/each optic 1	* 	5*
Efficiency 90 % LEDs/each optic 1 Light colour White		5.
Efficiency 90 % LEDs/each optic 1	4	5 0 1
Efficiency 90 % LEDs/each optic 1 Light colour White	4	or or A
Efficiency 90 % LEDs/each optic 1 Light colour White		o o o o o o o o o o o o o o o o o o o
Efficiency 90 % LEDs/each optic 1 Light colour White		22
Efficiency 90 % LEDs/each optic 1 Light colour White		
Efficiency 90 % LEDs/each optic 1 Light colour White Required components:		or 0
Efficiency 90 % LEDs/each optic 1 Light colour White Required components:		
Efficiency 90 % LEDs/each optic 1 Light colour White Required components:	ic	
Efficiency 90 % LEDs/each optic 1 Light colour White Required components: CREE (LED) LED XT-E FWHM / FWTM Asymme Efficiency 80 %	ic	
Efficiency 90 % LEDs/each optic 1 Light colour White Required components: CREE LED XT-E FWHM / FWTM Asymme Efficiency 80 % Peak intensity 0.6 cd/lm	ic	
Efficiency 90 % LEDs/each optic 1 Light colour White Required components:	ic	
Efficiency 90 % LEDs/each optic 1 Light colour White Required components:	•	
Efficiency 90 % LEDs/each optic 1 Light colour White Required components: CREE LED LED XT-E FWHM / FWTM Asymme Efficiency 80 % Peak intensity 0.6 cd/m LEDs/each optic 1	•	
Efficiency 90 % LEDs/each optic 1 Light colour White Required components: CREE LED LED XT-E FWHM / FWTM Asymme Efficiency 80 % Peak intensity 0.6 cd/m LEDs/each optic 1 Light colour White	•	
Efficiency 90 % EDs/each optic 1 ight colour White Required components: White ED XT-E EWHM / FWTM Asymmete Efficiency 80 % Peak intensity 0.6 cd/lm EDs/each optic 1 ight colour White	•	



UMILE	DS	90* 90
LED	LUXEON 3030 2D (Round LES)	3
FWHM / FWTM	Asymmetric	
Efficiency	72 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 300
Required components:		440
Protective plat	e, glass	
		130 ⁴ 13 ⁵ 0 ⁴ 13 ⁴ 31
		90* 91
LED	LUXEON 3030 2D (Round LES)	236 500
FWHM / FWTM	Asymmetric	
Efficiency	82 %	.65%
Peak intensity	0.7 cd/lm	300
LEDs/each optic	1	\times \times \wedge \times \times
Light colour	White	45* 400
Required components:		
Protective plate	e, glass	
		30* <u>15</u> ⁵ 700 <u>35</u> * 30
)S	50°
LED	LUXEON 3030 2D (Round LES)	
FWHM / FWTM	Asymmetric	750
Efficiency	94 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	40
Light colour	White	-6 ⁺
Required components:		60
		X / X
		800
		30*
		15 ³ 0 ⁶ 15 ⁶
)S	22 ² 0 ⁴ 12 ⁴
		80°
LED	LUXEON 3030 2D (Square LES)	
LED FWHM / FWTM	LUXEON 3030 2D (Square LES) Asymmetric	2 ² 4 ² 2 ²
LED FWHM / FWTM Efficiency	LUXEON 3030 2D (Square LES) Asymmetric 95 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 3030 2D (Square LES) Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Square LES) Asymmetric 95 % 0.8 cd/lm 1	.61
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Square LES) Asymmetric 95 % 0.8 cd/lm	.61
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 3030 2D (Square LES) Asymmetric 95 % 0.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Square LES) Asymmetric 95 % 0.8 cd/lm 1	61
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 3030 2D (Square LES) Asymmetric 95 % 0.8 cd/lm 1	61



	ns	
		90* 27
LED	LUXEON 3030 2D (Square LES)	738 100
FWHM / FWTM	Asymmetric	
Efficiency	83 %	604 80 6
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 400 4
Required components:		500
Protective pla	te, glass	
		600
		10° 10° 10° 10° 10°
		50* 9
LED	LUXEON 5050 Round LES	
FWHM / FWTM	Asymmetric	275 77 100 77
Efficiency	84 %	50 ⁴
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	45° e
Required components:		40
Protective pla	te, glass	50
		30* 600 30* 30* 30*
	DS	90*
LED	LUXEON 5050 Square LES	9
FWHM / FWTM	Asymmetric	
Efficiency	84 %	
Peak intensity	0.5 cd/lm	-60 ⁴
LEDs/each optic	1	
Light colour	White	45*
Required components:		400
Protective pla	te, glass	× ***
		30 ⁺ 20 ⁻ 20 ⁻ 3 ⁻
	DS	
LED	LUXEON 5050 Square LES	90* 9
FWHM / FWTM	Asymmetric	73
Efficiency	95 %	
Peak intensity	0.6 cd/lm	60*
LEDs/each optic	1	× / **
LED3/Each Optic	l White	5° 400 c
Light colour		46°
Light colour		
Light colour Required components:		500
		56
		50



UMILED	DS	90° 90°
		71
LED	LUXEON H50-2	
FWHM / FWTM	Asymmetric	. 60° 60°
Efficiency	%	
LEDs/each optic	1	× / + + + + ×
Light colour	White	40° 60°
Required components:		600
		30° 15° 0° 15° 30°.
	S	THA KHTI
LED	LUXEON HL2X-P	90* 94*
ED FWHM / FWTM	Asymmetric	73°
Efficiency	96 %	200
Peak intensity	0.6 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	300
Light colour	White	40
Required components:		
rioquiou componenter		
		700
		30° 15° 30°
UMILED)S	90°
	LUXEON HL2X-P	50* 50?
		54 ³ 55 ²
LED	LUXEON HL2X-P	20 29 29 29
LED FWHM / FWTM	LUXEON HL2X-P Asymmetric	99° - 99° 20° - 22' 20° - 22'
LED FWHM / FWTM Efficiency	LUXEON HL2X-P Asymmetric 81 %	5° 50' 50' 50' 50' 6'
LED FWHM / FWTM Efficiency Peak intensity	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/lm	90 ¹ 90 ² 10 ³ 00 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/lm 1	97 97 13 64 - - - - - - - - - - - - -
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/lm 1 White	97 97 97 97 97 90 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/lm 1 White	97 97 173 97 174 97 175 175 175 175 175 175 175 175 175 17
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/lm 1 White	99" 90" 90" 90" 90 60" 60" 60" 60" 60" 60" 60" 60" 60" 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/lm 1 White	94° 94° 94° 94° 94° 94° 94° 94°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/lm 1 White , glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/lm 1 White , glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/lm 1 White e, glass	00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/m 1 White e, glass NV4WB35AM Asymmetric 94 % 0.7 cd/m	00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/m 1 White e, glass NV4WB35AM Asymmetric 94 % 0.7 cd/m 1	00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/m 1 White e, glass NV4WB35AM Asymmetric 94 % 0.7 cd/m	00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/m 1 White e, glass NV4WB35AM Asymmetric 94 % 0.7 cd/m 1	00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/m 1 White e, glass NV4WB35AM Asymmetric 94 % 0.7 cd/m 1	00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON HL2X-P Asymmetric 81 % 0.4 cd/m 1 White e, glass NV4WB35AM Asymmetric 94 % 0.7 cd/m 1	00 00 00 00 00 00 00 00 00 00



ΜΝΙCΗΙΛ			7
LED	NVSW219F		5
FWHM / FWTM	Asymmetric		
Efficiency	81 %		
Peak intensity	0.5 cd/lm	50°	\sim
LEDs/each optic	1		
Light colour	White	45	
Required components:			
Protective plate	e, glass		
		31	
MICHIΛ		13	7
		90*	1
	NVSW519A	75%	1
FWHM / FWTM	Asymmetric 82 %		
Efficiency Peak intensity	82 % 0.4 cd/lm	805	Z
LEDs/each optic	0.4 cu/im 1		$\langle \chi \rangle$
Light colour	White	\times 7	
Required components:	Winte		
· · · · · · · · · · · · · · · · · · ·			
Protective plate	ə, glass		
		30° 33	
ΜΝΙCΗΙΛ		80*	Y.
LED	NVSW519A		2
FWHM / FWTM	Asymmetric	,734	
Efficiency	93 %		$\langle \mathcal{P} \rangle$
Peak intensity	0.6 cd/lm	, and the second	X
LEDs/each optic	1		
LEDs/each optic Light colour	1 White	• 1	
Light colour			
Light colour		*	
Light colour			
Light colour			-
Light colour Required components:			X
Light colour Required components:	White	91 91 91 91	
Light colour Required components:	White NVSxE21A	97	
Light colour Required components:	White NVSxE21A Asymmetric	5° 50° 50°	
Light colour Required components:	White NVSxE21A Asymmetric 96 %	9' 39' 39' 30' 30'	
Light colour Required components:	White NVSxE21A Asymmetric 96 % 0.5 cd/lm		
Light colour Required components:	White NVSxE21A Asymmetric 96 % 0.5 cd/lm 4		
Light colour Required components:	White NVSxE21A Asymmetric 96 % 0.5 cd/lm		
Light colour Required components:	White NVSxE21A Asymmetric 96 % 0.5 cd/lm 4	** ** ** **	
Light colour Required components:	White NVSxE21A Asymmetric 96 % 0.5 cd/lm 4	57 57 50 50 50 50	
Light colour Required components:	White NVSxE21A Asymmetric 96 % 0.5 cd/lm 4		



MICHIΛ				
LED	NVSxE21A			90*
ED FWHM / FWTM	Asymmetric			730
Efficiency	83 %			
Peak intensity	0.7 cd/lm			50° 6
LEDs/each optic	1			**
Light colour	White			
Required components:	Wille			
required components.				
Protective plate	e, glass			60
				30° 15° 0° 15° 3
ØNICHI Λ				80°
LED	NVSxE21A			9
FWHM / FWTM	Asymmetric			.732 100 7
Efficiency	83 %			
Peak intensity	0.4 cd/lm			.60* 200 6
LEDs/each optic	4			
Light colour	White			.45*
Required components:				400
Protective plate				
Fiblective plate	c, ylass			
				30° <u>560</u> 3
Μ ΝΙCΗΙΛ			10e2	80
LED	NVSxx19B/NVSxx19C	U		100
FWHM / FWTM	Asymmetric	/alu		7.75
Efficiency	92 %	tte		
Peak intensity	0.7 cd/lm	dina	0	.60° - 6
LEDs/each optic	1	Y coordinate value		40
Light colour	Amber	~		45* 5% 4
Required components:				
				10e2
			X coordinate value	700
				30* 15 ³ 0 ⁶ 15 ³ 3
Μ ΝΙCΗΙΛ				80.
LED	NVSxx19B/NVSxx19C			3
FWHM / FWTM	Asymmetric			736
Efficiency	82 %			
Peak intensity	0.5 cd/lm			
LEDs/each optic	1			
Light colour	White			45*
Required components:				400
Protective plate	eselo e			
Frotective plate	s, yidoo			200
				30* 500 th* 3
				10 0, 10,



-		
OSRAM Opto Semiconductors		90*
LED	Duris S8	
FWHM / FWTM	Asymmetric	75°
Efficiency	78 %	
Peak intensity	0.5 cd/lm	66* 200 60*
LEDs/each optic	1	
Light colour	' White	
Required components:	Wilde	45* 45*
C17677_STRADA-2>		
		500
		30* <u>600</u> 30* 30*
OSRAM		THA FFT
Opto Semiconductors	Duris S8	90° 90°
LED FWHM / FWTM		75* 100 75*
Efficiency	Asymmetric 83 %	
-	0.5 cd/lm	50* 50×
Peak intensity LEDs/each optic	1	
Light colour	ı White	
Required components:	White	45* 400 45*
Required components:		\times
Protective plate	e. glass	200
		30* 15 ² 0 ⁶ 15 ⁴ 30*
1		
OSRAM Oth Semiconductors		91 ⁺
Opto Semiconductors	OSCONIO P 3737 (2W version)	9 ¹
Opto Semiconductors	OSCONIQ P 3737 (2W version) Asymmetric	
Opto Semiconductors LED FWHM / FWTM	Asymmetric	13 ¹ 10 ² 10 ²
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 92 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.7 cd/lm 1	00 00 00 00 00 00 00 00 00 00 00 00 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.7 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version)	00 00 00 00 00 00 00 00 00 00 00 00 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric	00 00 00 00 00 00 00 00 00 00 00 00 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 %	00 00 00 00 00 00 00 00 00 00 00 00 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.7 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.7 cd/lm 1	00 00 00 00 00 00 00 00 00 00 00 00 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.7 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 0.7 cd/lm 1 White OSCONIQ P 3737 (3W version) Asymmetric 94 % 0.7 cd/lm 1	



OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square CSSRM2/CSSRM3	7
FWHM / FWTM	Asymmetric	73°
Efficiency	82 %	
Peak intensity	0.5 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	
Required components:	white	
Required components.		400
Protective plate	e, glass	500
		\times
1		30* 15 ⁵ 880 15* 30*
OSRAM Opto Semiconductors		90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75°
Efficiency	68 %	
Peak intensity	0.4 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45° 300 45°
Required components:		
C17677_STRADA-2X	2-SHD-BLK	400
Protective plate	e, glass	500
		30* <u>15°</u> 30°
OSRAM Opto Semiconductors		90° 90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75*
Efficiency		
	73 %	
	73 % 0.5 cd/lm	604 604
Peak intensity	0.5 cd/lm	65 67
Peak intensity LEDs/each optic	0.5 cd/lm 1	
Peak intensity LEDs/each optic Light colour	0.5 cd/lm	
Peak intensity LEDs/each optic Light colour Required components:	0.5 cd/lm 1 White	64 67 67 67 69
Peak intensity LEDs/each optic Light colour	0.5 cd/lm 1 White	651 657
Peak intensity LEDs/each optic Light colour Required components:	0.5 cd/lm 1 White 2-SHD-WHT	50
Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate	0.5 cd/lm 1 White 2-SHD-WHT	20 ⁻
Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate	0.5 cd/lm 1 White 2-SHD-WHT	
Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate	0.5 cd/lm 1 White 22-SHD-WHT a, glass	
Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate OSRAM Opto Semiconductors LED	0.5 cd/lm 1 White 22-SHD-WHT 2, glass OSLON Square CSSRM2/CSSRM3	
Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM	0.5 cd/lm 1 White 22-SHD-WHT 2, glass OSLON Square CSSRM2/CSSRM3 Asymmetric	
Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	0.5 cd/lm 1 White 22-SHD-WHT 2, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 78 %	
Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	0.5 cd/lm 1 White 22-SHD-WHT a, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 78 % 0.6 cd/lm	
Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	0.5 cd/lm 1 White 22-SHD-WHT a, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 78 % 0.6 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.5 cd/lm 1 White 22-SHD-WHT a, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 78 % 0.6 cd/lm	
Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	0.5 cd/lm 1 White 22-SHD-WHT a, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 78 % 0.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	0.5 cd/lm 1 White 22-SHD-WHT a, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 78 % 0.6 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2> Protective plate OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	0.5 cd/lm 1 White 22-SHD-WHT a, glass OSLON Square CSSRM2/CSSRM3 Asymmetric 78 % 0.6 cd/lm 1 White	



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OSRAM Opto Semiconductors		90*	90*
LED	OSLON Square CSSRM2/CSSRM3		
FWHM / FWTM	Asymmetric	75°	70'
Efficiency	83 %		\mathcal{I}
Peak intensity	0.6 cd/lm	50× × / ×	60*
LEDs/each optic	1	X X	\searrow
Light colour	White	\times \times $/$ $/$ \times	
Required components:		400	
C17580_STRADA-22	2-SHD-WHT	500	
		600	
		30° 15° 0° 15°	30*
PHILIPS			-
LED	Fortimo FastFlex LED 2x2 DA G5	30°	90.
FWHM / FWTM	Asymmetric	750 100	75'
Efficiency	83 %		X
Peak intensity	0.7 cd/lm	604	60*
LEDs/each optic	1		\mathbf{N}
Light colour	White		\geq
Required components:	white	45" 400	45*
C17580_STRADA-22	2-SHD-WHT	\times	
		50	
		30° 600 15°	30*
PHILIPS			FI
		904	90*
LED	Fortimo FastFlex LED 2x2 DA G5	75%	75
FWHM / FWTM	Asymmetric		\leq
Efficiency	71%	50'	60*
Peak intensity	0.5 cd/lm 1		
LEDs/each optic	White	X 30	X
Light colour Required components:	white	45*	45+
C17580_STRADA-22		400	
	2-5HD-WIT	*	
Protective plate	e, glass	200	
Protective plat	e, glass	500 30° 20° 0° 10°	30*
		200 - 200 -	30*
PHILIPS		200 200 200	30*
	Fortimo FastFlex LED 2x8 DA G4+	200 201 201 201 201	30*
PHILIPS LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric	20 20 20 20 20 20 20 20	30*
PHILIPS LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 66 %	20 20 20 20 20 20 20 20 20 20 20 20 20 2	30* 90* 735 60*
PHILIPS LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 66 % 0.4 cd/lm		30* 90* 50*
PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 66 % 0.4 cd/lm 1		90 ⁷ 90 ⁷ 90 ⁷ 60 ⁴
PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 66 % 0.4 cd/lm	20 20 20 20 20 20 20 20 20 20 20 20 20 2	33) 99 99 99 99 99 99 99 99 99 99 99 99 99
PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 66 % 0.4 cd/lm 1 White	20 30* 50* 60* 60* 60* 80 20 20 20 20 20 20 20 20 20	30 ⁴ 92 ⁴ 95 ⁴ 95 ⁴ 95 ⁴
PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 66 % 0.4 cd/lm 1 White		30
PHILIPS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x8 DA G4+ Asymmetric 66 % 0.4 cd/lm 1 White 22-SHD-BLK		35



PHILIPS		
LED	Fortimo FastFlex LED 2x8 DA G4+	
FWHM / FWTM	Asymmetric	78 700 75°
Efficiency	75 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 300 45*
Required components:		
C17677_STRADA-2X	(2-SHD-BLK	400
		30 ⁴ 30 ⁴
PHILIPS		23, 6, 72,
LED	Fortimo FastFlex LED 2x8 DA G5	90° 90°
FWHM / FWTM	Asymmetric	750 100 750
Efficiency	82 %	
Peak intensity	0.5 cd/lm	604 604
LEDs/each optic	1	
Light colour	White	
Required components:		
		\times
Protective plate	e, glass	500
		30" 15 ⁵ 60 ⁶ 15" 30"
PHILIPS		
		90* 90*
LED	Fortimo FastFlex LED 2x8 DA G5	90* 90*
LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G5	9 ²⁴ 9 ² 7 ³⁴ 700 72.
		5 ²⁴ 500 752
FWHM / FWTM	Fortimo FastFlex LED 2x8 DA G5 Asymmetric	60°
FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 %	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm	5°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White	10 ²
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White	20° 40° 40° 40° 50° 100 100 10° 10° 10° 10° 10° 1
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White 9, glass	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White 9, glass Fortimo FastFlex LED 2x8 DAX G4	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White a, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White 9, glass Fortimo FastFlex LED 2x8 DAX G4	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency LEDs/each optic	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 93 % 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 93 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency LEDs/each optic	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 93 % 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 93 % 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate PHILIPS LED FWHM / FWTM Efficiency LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DA G5 Asymmetric 83 % 0.6 cd/lm 1 White e, glass Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 93 % 1	200 000 000 000 000 000 000 000 000 000



SAMSUI	N G	200
LED	HiLOM RH12 Z (LH351C)	5
FWHM / FWTM	Asymmetric	
Efficiency	82 %	
Peak intensity	0.5 cd/lm	50° 200
LEDs/each optic	1	
Light colour	White	451
Required components:		
Protective pla	te, glass	50
SAMSUI		
		90°
	LH181B	75 100
FWHM / FWTM	Asymmetric	
Efficiency Peak intensity	94 % 0.5 cd/lm	500
LEDs/each optic	4	
Light colour	4 White	
Required components:		400
··· · · · · · · · · · · · · · · · · ·		540
		000
		20° 43° 0° 13°
SAMSUI	NG	80"
LED	LH351B	3
FWHM / FWTM	Asymmetric	730
Efficiency	79 %	
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 3%
Required components:		
Protective pla	te class	400
i loteotive pla	ic, giaco	200
		30° 13 ⁵ 0 ¹
SAMSUI	VG	87
LED	LH508A	4
FWHM / FWTM	Asymmetric	72%
Efficiency	84 %	
Peak intensity	0.5 cd/lm	
	1	
LEDs/each optic	White	45*
Light colour		
		400
Light colour Required components:		
Light colour		40



SEOUL		MY YM
SEOUL SEMICONDUCTOR		90° 90°
LED	MJT 5050	730 750
FWHM / FWTM	Asymmetric	$\mathbb{N} \subset \mathbb{X} / \mathbb{N} \times \mathbb{Y} / \mathbb{Y}$
Efficiency	94 %	66* 60*
Peak intensity	0.5 cd/lm	\times
LEDs/each optic	1	$X \times I \setminus X \times$
Light colour	White	45* 400 45*
Required components:		500
		600
		30° 700 50°
SEOUL		
SEOUL SEMICONDUCTOR		90° 90°
LED	SEOUL DC 5050 6V	27
FWHM / FWTM	Asymmetric	100 75°
Efficiency	95 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required components:		500
		600
		740
		(30° 13 ⁵ 0° 15° 30°
SEOUL		
SEOUL SEMICONDUCTOR	Z5M3	30'
FWHM / FWTM	Asymmetric	75°
Efficiency	81 %	
Peak intensity	0.5 cd/lm	50° 500 50°
LEDs/each optic	1	
Light colour	White	45* 30
Required components:		
rioquirou componente.		400
Protective plate	, glass	
		× ~ ×
		30* 15 ⁵ 0 ⁶ 15 ⁸ 30*
SEOUL		THY HI
SEOUL SEMICONDUCTOR		an*
	7614	5
LED	Z5M4	754
FWHM / FWTM	Asymmetric	26 100 202
FWHM / FWTM Efficiency	Asymmetric 82 %	
FWHM / FWTM Efficiency Peak intensity	Asymmetric 82 % 0.5 cd/lm	20 20 60 10 20 00 60 10 60 10 60 10 10 10 10 10 10 10 10 10 10 10 10 10
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 82 % 0.5 cd/lm 1	60 ¹
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 82 % 0.5 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 82 % 0.5 cd/lm 1	60 ¹ 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 82 % 0.5 cd/lm 1 White	60 ⁵ 60 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 82 % 0.5 cd/lm 1 White	60 ⁵ 60 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 82 % 0.5 cd/lm 1 White	60 ⁵ 60 ⁴



SEOU		804
SEQUL SEMICONDUCTOR	Z8Y22	
FWHM / FWTM	Asymmetric	
Efficiency	76 %	20
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 440 55°
Required components	S:	
C17677_STRADA	-2X2-SHD-BLK	20
		00
		30.4 30 30 30° 30°



PRODUCT DATASHEET C13299_STRADA-2X2-ME

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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