

STRADA-2X2-ME-WIDE1

Beam with excellent longitudinal luminance uniformity fulfilling EN13201 M-class requirements where road width is equal to or less than the pole height. Added house-side backlight.

SPECIFICATION:

Dimensions	50.0 x 50.0 mm
Height	8.9 mm
Fastening	glue, pin, screw
ROHS compliant	yes 🛈



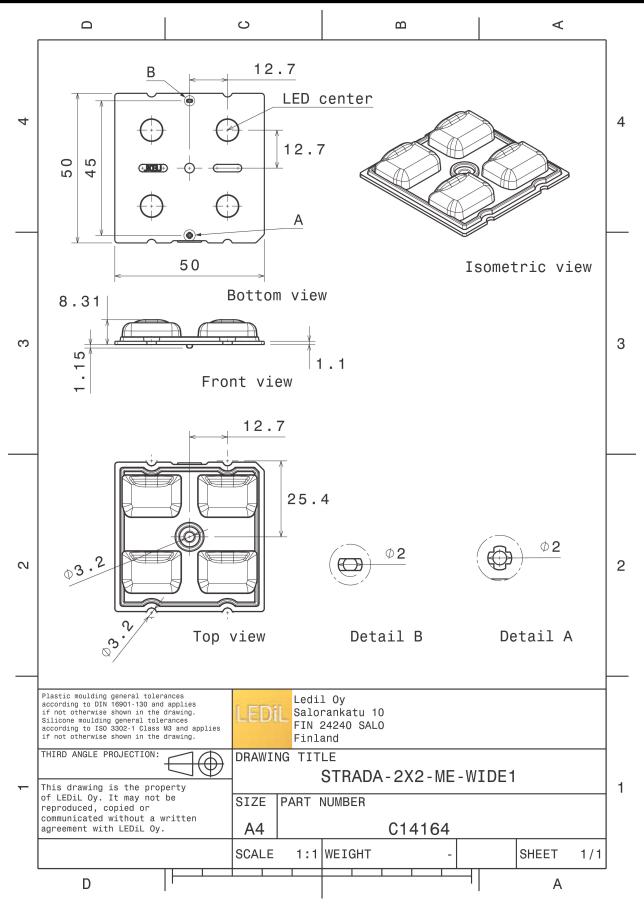
MATERIALS:

Component	Туре	Material	Colour	Finish
STRADA-2X2-ME-WIDE1	Multi-lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C14164_STRADA-2X2-ME-WIDE1	800	160	160	8.6
» Box size: 480 x 280 x 300 mm				





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



	D		
LED			
FWHM / FWTM	Asymmetric		25° 4 200
Efficiency	94 %		
Peak intensity	0.7 cd/lm		605
LEDs/each optic	4		
Light colour	White		45* 400
Required compone			
			36° 700 13° 13°
	D		8.
LED	XM-L3		
FWHM / FWTM	Asymmetric		
Efficiency	97 %		
Peak intensity	1 cd/lm		
LEDs/each optic	1		
Light colour	White		40°
Required compone	ents:		50
			700
LED	XP-G		90*
EED FWHM / FWTM	Asymmetric		75°
Efficiency	86 %		
Peak intensity	1 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone			
Protective	e plate, glass		200
			30*.
			15 ² 0 ⁴ 12 ⁵
			90*
LED	XP-G2		
FWHM / FWTM	Asymmetric		- 190
Efficiency	83 %		601
Peak intensity	0.9 cd/lm		
LEDs/each optic	1 W/bito		
Light colour	White		45+
Required compone	enis.		\times
Protective	e plate, glass		440
	,, g		
			50° 15° 15°



		20 [*]
LED	XP-G3	
FWHM / FWTM	Asymmetric	751 2 100 781
Efficiency	94 %	
Peak intensity	1 cd/lm	604 604
LEDs/each optic	1	400
Light colour	White	
Required componer		
		600
		710
		810
		30° 15° 30°
		90° 90°
LED	XP-G3	
FWHM / FWTM	Asymmetric	
Efficiency	90 %	616 60 600
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	457 400 457
Required componer		
C17580_STRAD	A-2X2-SHD-WHT	0/5
		010
		30.0 20 00 200 300
	1	
		90* 99*
LED	XP-G3	75%
FWHM / FWTM	Asymmetric	
Efficiency	78 %	60* 200 60*
Peak intensity	0.9 cd/lm 1	
LEDs/each optic Light colour	White	300
Required componer		65* 69*
C17677_STRAD		\times
		200
		- 30*
LED	XP-L HD	90° 99°
FWHM / FWTM	Asymmetric	75%
Efficiency	83 %	
Peak intensity	0.7 cd/lm	614 604
LEDs/each optic	1	
Light colour	White	6° 30 0°
Required componer		
		400
Protective	plate, glass	
		500



		90* 90*
LED	XP-L2	
FWHM / FWTM	Asymmetric	73° 70° 77°
Efficiency	85 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45* 300 45*
Required componer	nts:	\times
		400
		500
<u>~</u> ~		
		90° 90°
LED	EHP-2x8-3535	1 100
FWHM / FWTM	Asymmetric	138
Efficiency	97 %	60 ⁶
Peak intensity	1 cd/lm	
LEDs/each optic	1	400
Light colour	White	45°
Required componer	nts:	
		500
		700
		30° 10° 10° 30°
		20° 22 ³ 0° 20° 30°
		30 ¹ 13 ² 0 ³ 13 ⁴ 30 ⁴
LED	EHP-2x8-5050	200 ¹ 13 ¹ 0 ¹ 10 ¹ 30 ¹
LED FWHM / FWTM	Asymmetric	20 ¹ 12 ¹ 20 ¹ 20 ²
LED FWHM / FWTM Efficiency	Asymmetric 97 %	200* 120 07 20* 20* 20* 07 20* 07* 20* 07* 07* 20* 07*
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 97 % 0.6 cd/lm	200 ⁺ 10 ⁻ 20 ⁺
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 0.6 cd/lm 1	200 ¹ 10 0
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.6 cd/lm 1 White	20° 10 00 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 0.6 cd/lm 1 White	20 ¹ 12 ¹ 20 ¹
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.6 cd/lm 1 White	200 ⁴ 130 20 ⁴ 20 ⁴ 20 ⁴ 20 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.6 cd/lm 1 White	200 ⁻ 200 ⁻ 200 200 200 200 200 200 200 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen	Asymmetric 97 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 97 % 0.6 cd/lm 1 White tts:	200 ⁻ 20 ⁻ 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 97 % 0.6 cd/lm 1 White hts: EDS LUXEON TX	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Model of the second seco	Asymmetric 97 % 0.6 cd/lm 1 White hts: EDS LUXEON TX Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Composition LED FWHM / FWTM Efficiency	Asymmetric 97 % 0.6 cd/lm 1 White hts: EDS LUXEON TX Asymmetric 84 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity	Asymmetric 97 % 0.6 cd/lm 1 White hts: EDS LUXEON TX Asymmetric 84 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Required component Efficiency Peak intensity LEDs/each optic	Asymmetric 97 % 0.6 cd/lm 1 White hts: EDS LUXEON TX Asymmetric 84 % 0.9 cd/lm 1	25° 260 25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composition Required component Composition Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 97 % 0.6 cd/lm 1 White tts: EDS LUXEON TX Asymmetric 84 % 0.9 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	Asymmetric 97 % 0.6 cd/lm 1 White tts: EDS LUXEON TX Asymmetric 84 % 0.9 cd/lm 1 White	25° 260 25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component COMPARIANCE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 97 % 0.6 cd/lm 1 White tts: EDS LUXEON TX Asymmetric 84 % 0.9 cd/lm 1 White	25° 260 25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component COMPARIANCE FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 97 % 0.6 cd/lm 1 White tts: EDS LUXEON TX Asymmetric 84 % 0.9 cd/lm 1 White tts:	25° 260 25°



	EDS	
LED	LUXEON V	90* 9
FWHM / FWTM	Asymmetric	734
Efficiency	94 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	45* 400
Required compone	nts:	
		60
		700
		30° 13° 0° 13°
MST Your solut	ions	80*
LED	RecLED 122x50mm 1900lm 730 2x4 Opt G1	
FWHM / FWTM	Asymmetric	
Efficiency	97 %	200
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	
Light colour	White	400 400
Required compone	nts:	
		660
		30° 700 10° 10° 30°
MNICHIA		THY M
		*
LED	NVSW219F	90*
LED FWHM / FWTM	NVSW219F Asymmetric	20 1 00
LED FWHM / FWTM Efficiency	NVSW219F Asymmetric 94 %	
LED FWHM / FWTM Efficiency Peak intensity	NVSW219F Asymmetric 94 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW219F Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSW219F Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSW219F Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 1 cd/lm 1 White nts:	40 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 1 cd/lm 1 White nts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 1 cd/lm 1 White nts: NVSW319B Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 1 cd/lm 1 White Ints:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 1 cd/lm 1 White nts: NVSW319B Asymmetric	4 ³ 4 ³ 4 ³ 4 ³ 2 ³
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 1 cd/lm 1 White nts: NVSW319B Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 1 cd/lm 1 White nts: NVSW319B Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 1 cd/lm 1 White nts: NVSW319B Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 1 cd/lm 1 White nts: NVSW319B Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219F Asymmetric 94 % 1 cd/lm 1 White nts: NVSW319B Asymmetric 94 % 1 cd/lm 1 White	



ΜΝΙCΗΙΛ		
		90* 90*
LED	NVSW3x9A	
FWHM / FWTM	Asymmetric	739 4100 709
Efficiency	86 %	
Peak intensity	0.8 cd/lm	50°
LEDs/each optic	1	
Light colour	White	45* 400 45*
Required componer		
Protective	plate, glass	00
		700
		130° 15 ⁵ 0° 15° 30°
OSRAM		90° 90°
LED	PL-BRICK HP 3800 2x8 SSG	
FWHM / FWTM	Asymmetric	75*
Efficiency	96 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 65°
Required componer	its:	400
		500
		30* 600 30*
OCDAN		
OSRAM		90* 90*
LED	PrevaLED Brick HP 2x8	
	TIEVALLD DITCKTTI 2X0	
FWHM / FWTM	Asymmetric	73%
FWHM / FWTM Efficiency	Asymmetric 86 %	70° (100 (70°)) 60° (70°)
FWHM / FWTM Efficiency Peak intensity	Asymmetric 86 % 1 cd/lm	10 10 72 64 64
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 1 cd/lm 1	23 ⁴ 100 72. 65 ⁴ 69
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 1 cd/lm 1 White	23° 100 72°. 64° 67° 45° 70° 67°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 1 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 1 cd/lm 1 White	23 JUD 77. 64 General Control
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 1 cd/lm 1 White	27 Jun 72.
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 1 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 86 % 1 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 86 % 1 cd/lm 1 White tts:	60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 86 % 1 cd/lm 1 White tts: Duris S8	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Opte Semiconductors LED FWHM / FWTM	Asymmetric 86 % 1 cd/lm 1 White tts: Duris S8 Asymmetric	90 90 90 90 90 90 90
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 86 % 1 cd/lm 1 White tts: Duris S8 Asymmetric 94 %	90 90 90 90 90 90 90
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 86 % 1 cd/lm 1 White tts: Duris S8 Asymmetric 94 % 0.6 cd/lm	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Opte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 1 cd/lm 1 White tts: Duris S8 Asymmetric 94 % 0.6 cd/lm 1	90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 1 cd/lm 1 White tts: Duris S8 Asymmetric 94 % 0.6 cd/lm 1 White	90°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 86 % 1 cd/lm 1 White tts: Duris S8 Asymmetric 94 % 0.6 cd/lm 1 White	90°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 1 cd/lm 1 White tts: Duris S8 Asymmetric 94 % 0.6 cd/lm 1 White	90°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 86 % 1 cd/lm 1 White tts: Duris S8 Asymmetric 94 % 0.6 cd/lm 1 White	90 90 90 90 90 90 90



OSRAM Opto Semiconductors		90 ⁴
LED	Duris S8	
FWHM / FWTM	Asymmetric	75° y 100 75°
Efficiency	89 %	
Peak intensity	0.6 cd/lm	.60* <u>60*</u>
LEDs/each optic	1	
Light colour	White	30
Required componer		
		400
Protective	plate, glass	
		30° 435 ⁵ 0° 10° 30°
OSRAM Opto Semiconductors		90° 90°
LED	OSLON Square CSSRM2/CSSRM3	
FWHM / FWTM	Asymmetric	75°
Efficiency	86 %	
Peak intensity	1 cd/lm	.60* 60*
LEDs/each optic	1	
Light colour	White	43*
Required componer		400
		200
Protective	plate, glass	X/T/X
		60
		30* 30*
		15 ⁵ 0 ⁶ 15 ⁶
OSRAM Opto Semiconductors		185, 64 154.
OSRAM Opto Semiconductors LED	OSLON Square PC	90 ⁺ 90 ⁺ 10 ⁺
Opto Semiconductors	OSLON Square PC Asymmetric	25° 0° 13° 9° 9°
Opto Semiconductors		15 ² 0 ⁴ 15 ² 9 ⁴ 9 ⁵
opto Semiconductors LED FWHM / FWTM	Asymmetric	25° 0° 15° 90° 25° 0° 15° 90° 25° 0° 200 7° 200 60°
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 84 %	25° 0° 15° 90° 90° 50° 50° 50° 50° 60°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.9 cd/m	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.9 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 84 % 0.9 cd/lm 1 White hts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 84 % 0.9 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 84 % 0.9 cd/lm 1 White hts:	20
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective	Asymmetric 84 % 0.9 cd/lm 1 White hts: plate, glass	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective	Asymmetric 84 % 0.9 cd/lm 1 White hts:	500
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective	Asymmetric 84 % 0.9 cd/lm 1 White hts: plate, glass	500
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective	Asymmetric 84 % 0.9 cd/lm 1 White hts: plate, glass	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective	Asymmetric 84 % 0.9 cd/lm 1 White hts: plate, glass S Fortimo FastFlex LED 2x8 DA G4	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective PHILLIP LED FWHM / FWTM	Asymmetric 84 % 0.9 cd/lm 1 White hts: plate, glass S Fortimo FastFlex LED 2x8 DA G4 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective Protective ED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.9 cd/lm 1 White hts: plate, glass Fortimo FastFlex LED 2x8 DA G4 Asymmetric 86 %	500
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Protective Protective Protective ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.9 cd/lm 1 White hts: plate, glass Fortimo FastFlex LED 2x8 DA G4 Asymmetric 86 % 0.8 cd/lm 1	500
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective Protective ED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.9 cd/lm 1 White hts: plate, glass Fortimo FastFlex LED 2x8 DA G4 Asymmetric 86 % 0.8 cd/lm 1 White	500
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Protective Protective ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 84 % 0.9 cd/lm 1 White hts: plate, glass Fortimo FastFlex LED 2x8 DA G4 Asymmetric 86 % 0.8 cd/lm 1 White hts:	500
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Protective Protective ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 84 % 0.9 cd/lm 1 White hts: plate, glass Fortimo FastFlex LED 2x8 DA G4 Asymmetric 86 % 0.8 cd/lm 1 White	500
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Protective Protective ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 84 % 0.9 cd/lm 1 White hts: plate, glass Fortimo FastFlex LED 2x8 DA G4 Asymmetric 86 % 0.8 cd/lm 1 White hts:	500



PHILIF	PS	50°
LED	Fortimo FastFlex LED 2x8 DA G4+	
FWHM / FWTM	Asymmetric	75 6 100
Efficiency	94 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	45°
Required compone	ents:	
		30* 500 0* 17* 30
PHILIP	DS .	
LED	Fortimo FastFlex LED 2x8 DA G5	90~ 90
EED FWHM / FWTM	Asymmetric	75* 100 78
Efficiency	97 %	
Peak intensity	1.1 cd/lm	100 100
LEDs/each optic	1	
Light colour	White	
Required compone		
i toqui ou compone		200
		60
		30° 15° 0° 15° 30°
PHILIP	25	90° 90'
		50° 50°
LED	Fortimo FastFlex LED 2x8 DAX G4	50°
LED FWHM / FWTM		50* 50 721 100 75
LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 %	50° 500 50
LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric	50° 500 50 50° 300 60 60° 400
LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White	22 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White ents:	22 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White ents:	20 70 60 ⁴ 200 60 40 ⁴ 90 60 700 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White ents:	22 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White ents: UNG HiLOM RC12 Z (LH181B)	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White ents: UNG HiLOM RC12 Z (LH181B) Asymmetric	22 20 20 20 20 20 20 20 20 20 20 20 20 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALS LED FWHM / FWTM Efficiency Peak intensity	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White ents: UNC HiLOM RC12 Z (LH181B) Asymmetric 98 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSI LED FWHM / FWTM Efficiency	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SAMSS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SALS ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Fortimo FastFlex LED 2x8 DAX G4 Asymmetric 94 % 1 cd/lm 1 White ents:	



SAMSU	ING	THA FFT
LED	HiLOM RH16 (LH351C)	90* 95
FWHM / FWTM	Asymmetric	751 100 72
Efficiency	94 %	
Peak intensity	0.9 cd/lm	610 6
LEDs/each optic	1	
Light colour	White	
Required compone		400
i toqui ou compone		
		60
		30° 15° 30
SAMSU	JNG	50°
LED	HiLOM RM12 Z (LH502C)	
FWHM / FWTM	Asymmetric	75* 4 200 72
Efficiency	96 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	400
		200
		30° 15° 35
SAMSU	JNG	50*
LED	HiLOM RM16 Z (LH502C)	4
FWHM / FWTM	Asymmetric	750 5 100 72
Efficiency	98 %	800
Peak intensity	0.6 cd/lm	
LEDs/each optic		
LLDS/each oplic	1	
Light colour	White	57 <u>60</u> C
	White	57 60 C
Light colour	White	6° 40 C
Light colour	White	67 60 C
Light colour	White	
Light colour Required compone	White nts:	
Light colour Required compone	White nts: JNG	
Light colour Required compone	White nts: JNG HiLOM RM8 Z (LH502C)	12 ² 2 ² / ₆ - 13 ³
Light colour Required compone SAMSU LED FWHM / FWTM	White nts: JNG HiLOM RM8 Z (LH502C) Asymmetric	
Light colour Required compone SAMSU LED FWHM / FWTM Efficiency	White Ints: ING HiLOM RM8 Z (LH502C) Asymmetric 97 %	12 ² 2 ² / ₆ - 13 ³
Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity	White Ints: ING HiLOM RM8 Z (LH502C) Asymmetric 97 % 0.6 cd/lm	12 ² 2 ² / ₆ - 13 ³
Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White Ints: ING HiLOM RM8 Z (LH502C) Asymmetric 97 % 0.6 cd/lm 1	12 ² 2 ² / ₆ - 13 ³
Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White Ints: ING HiLOM RM8 Z (LH502C) Asymmetric 97 % 0.6 cd/lm 1 White	12 ² 2 ² / ₆ - 13 ³
Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White Ints: ING HiLOM RM8 Z (LH502C) Asymmetric 97 % 0.6 cd/lm 1 White	12 ² 2 ² / ₆ - 13 ³
Light colour Required compone SAMSI LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White Ints: ING HiLOM RM8 Z (LH502C) Asymmetric 97 % 0.6 cd/lm 1 White	12 ² 2 ² / ₆ - 13 ³
Light colour Required compone SAMSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White Ints: ING HiLOM RM8 Z (LH502C) Asymmetric 97 % 0.6 cd/lm 1 White	12 ² 2 ² / ₆ - 13 ³

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SAMSI	INC	TAY YAT
		90* 90*
LED	LH351B	730
FWHM / FWTM	Asymmetric	
Efficiency	87 %	60* 60*
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	45'
Required compone	nts:	400
Protective	plate, glass	30
		30* 35 ⁹ 66 15 ⁴ 30*
SAMSI	ING	
LED	LH351B	*
FWHM / FWTM	Asymmetric	730 100 750
Efficiency	94 %	
Peak intensity	0.9 cd/lm	504 504
LEDs/each optic	1	
Light colour	White	45* 400 55*
Required compone		
riequieu compone		500
		60
		30° 15 ⁵ 0° 15° 30°
Elektronik GmbH		90* 90*
LED	LED-Pa-L15c2W11c2-xxx-C050-01	
FWHM / FWTM		
	Asymmetric	
	Asymmetric 98 %	
Efficiency	98 %	
Efficiency Peak intensity		
Efficiency Peak intensity LEDs/each optic	98 % 1.1 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour	98 % 1.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic	98 % 1.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	98 % 1.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour	98 % 1.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	98 % 1.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	98 % 1.1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	98 % 1.1 cd/lm 1 White nts:	
Efficiency Peak intensity LEDs/each optic Light colour Required compone	98 % 1.1 cd/lm 1 White nts: Z5M3	
Efficiency Peak intensity LEDs/each optic Light colour Required compone scoul semiconductor LED FWHM / FWTM	98 % 1.1 cd/lm 1 White nts: Z5M3 Asymmetric	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Efficiency Peak intensity LEDs/each optic Light colour Required compone scout semiconductor LED FWHM / FWTM Efficiency	98 % 1.1 cd/lm 1 White nts: Z5M3 Asymmetric 94 %	
Efficiency Peak intensity LEDs/each optic Light colour Required compone stous semiconductor LED FWHM / FWTM Efficiency Peak intensity	98 % 1.1 cd/lm 1 White nts: Z5M3 Asymmetric 94 % 1 cd/lm	
Efficiency Peak intensity LEDs/each optic Light colour Required compone scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	98 % 1.1 cd/lm 1 White nts: Z5M3 Asymmetric 94 % 1 cd/lm 1	
Efficiency Peak intensity LEDs/each optic Light colour Required compone stour, structured compon	98 % 1.1 cd/lm 1 White TS: Z5M3 Asymmetric 94 % 1 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Efficiency Peak intensity LEDs/each optic Light colour Required compone stour.semconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	98 % 1.1 cd/lm 1 White TS: Z5M3 Asymmetric 94 % 1 cd/lm 1 White	
Efficiency Peak intensity LEDs/each optic Light colour Required compone scoul semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	98 % 1.1 cd/lm 1 White TS: Z5M3 Asymmetric 94 % 1 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50 50 50 50 5
Efficiency Peak intensity LEDs/each optic Light colour Required compone stour.semconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	98 % 1.1 cd/lm 1 White TS: Z5M3 Asymmetric 94 % 1 cd/lm 1 White	50 50 50 50 50 50 50 50 50 50 50 50 50 5



Image: Structure structur
LED Z5M4 FWHM / FWTM Asymmetric Efficiency 98 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: ************************************
FWHM / FWTM Asymmetric Efficiency 98 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components Image: Component state
Efficiency 98 % Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: SEQUIL SEMICONDUCTOR LED Z8Y22 FWHM / FWTM Asymmetric
Peak intensity 0.9 cd/lm LEDs/each optic 1 Light colour White Required components: storul LEM LED Z8Y22 FWHM / FWTM Asymmetric
LEDs/each optic 1 Light colour White Required components:
Light colour White Required components:
Required components:
seoul semiconductor LED Z8Y22 FWHM / FWTM Asymmetric
SEQUE SEMICONDUCTOR LED Z8Y22 FWHM / FWTM Asymmetric
SEQUE SEMICONDUCTOR LED Z8Y22 FWHM / FWTM Asymmetric
seoul semiconductor LED Z8Y22 FWHM / FWTM Asymmetric
seous semiconductore LED Z8Y22 FWHM / FWTM Asymmetric
LED Z8Y22 FWHM / FWTM Asymmetric
FWHM / FWTM Asymmetric 75
Efficiency 94 %
Peak intensity 1.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:
80
307
TOSHIBA
Leading Innovation >>>
LED TL1L4
FWHM / FWTM Asymmetric
Efficiency 83 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:
Protective plate, glass
TRIDONIC
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 components:



TRIDON		90° 90°
LED	RLE 2x8 4000lm HP EXC2 OTD	100
FWHM / FWTM	Asymmetric	
Efficiency	94 %	
Peak intensity	1.3 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 400
Required compone	nts:	200
		600
		700
		15 ³ 8 ⁴ 0 18 ⁴
TRIDOM	IIC	90° 90°
LED	RLE G1 49x121mm 2000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	73" 200 75"
Efficiency	94 %	110
Peak intensity	1.2 cd/lm	60*
LEDs/each optic	1	
Light colour	White	45° 810 45°
Required compone	nts:	
		1000
		30° 13 ³ 18 ⁵ 0 13° 30°
TRIDOM	IIC	90° 90°
LED	RLE G1 49x133mm 2000lm xxx EXC OTD	
FWHM / FWTM	Asymmetric	73* 200 78*
Efficiency	94 %	
Peak intensity	1.2 cd/lm	60*
LEDs/each optic	1	00
Light colour	White	45° No 45°
Required compone	nts:	
		1000
		30° 15° 18% 15° 30°
TRIDOM	lic	90° 95°
LED	RLE G1 49x223mm 4000lm xxx EXC OTD	
		75° 200 75°
FWHM / FWTM	Asymmetric	
FWHM / FWTM	Asymmetric 94 %	
FWHM / FWTM Efficiency	94 %	.05 600 607
FWHM / FWTM Efficiency Peak intensity	-	60° 60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 1.2 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.2 cd/lm 1 White	61 ⁴ 60 61 ⁴ 90 61 ⁴ 90
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	94 % 1.2 cd/lm 1 White	60° 67 -0° 00 00°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.2 cd/lm 1 White	103 100 100 100
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	94 % 1.2 cd/lm 1 White	40° 60° 67° 45° 80° 67°

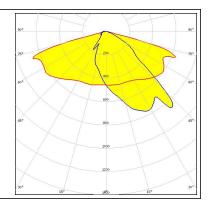


TRIDONIC

LED

FWHM / FWTMAsEfficiency94Peak intensity1.1LEDs/each optic1Light colourWRequired components:

RLE G1 49x245mm 4000lm xxx EXC OTD Asymmetric 94 % 1.2 cd/lm 1 White





bridgelux.		90*
LED	Bridgelux SMD 5050	
FWHM / FWTM	Asymmetric	750 6
Efficiency	81 %	
Peak intensity	0.4 cd/lm	64*
LEDs/each optic	1	
Light colour	White	45" 340
Required components:		\times / \times
Protective plate	, glass	400
		30° 13° 13°
		80
LED	XHP35 HD	
FWHM / FWTM	Asymmetric	756 7 100
Efficiency	94 %	
Peak intensity	0.6 cd/lm	eor de
LEDs/each optic	1	
Light colour	White	45* 300
Required components:		
		400
		30° 13° 0° 15°
LED	XHP35 HI	90*
FWHM / FWTM	Asymmetric	750 9 100
	94 %	And I and
Efficiency		60°
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	$\times \times / \setminus \times \rangle$
Light colour	White	400
Required components:		500
		50° - 20° - 30° -
		80 5x* 12 ⁰ 30 5x* 12 ⁰ 25 [*]
LED	XP-G2 HE	20° 20° 10°
LED FWHM / FWTM	Asymmetric	20° 20° 20° 20° 20° 20° 20° 20° 20° 20°
LED FWHM / FWTM Efficiency	Asymmetric 92 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 0.7 cd/lm	00 00 00 00 00 00 00 00 00 00 00 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.7 cd/lm 1	200 20* 20* 20* 20* 20* 20* 20*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1	600 500 500 600 600 600 600 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 0.7 cd/lm 1	



			FT
LED	XP-G3	90 ⁻	
FWHM / FWTM	Asymmetric	750 9	
Efficiency	78 %	5100	
	0.5 cd/lm	50"	
Peak intensity			$\langle \rangle \rangle \langle \rangle$
LEDs/each optic	1		
Light colour	White	45* 300	
Required components:			
Protective plate	e, glass	400	
		30* <u>500</u>	15*
		90°	FT
LED	XP-G3		
FWHM / FWTM	Asymmetric	759 100	
Efficiency	76 %		
Peak intensity	0.6 cd/lm	60°	
LEDs/each optic	1		$\sqrt{2}$
Light colour	White	45+ 300	
Required components:			
C17580_STRADA-2X	(2-SHD-WHT	400	
-		\times	
Protective plate	e, glass	500	
		30° 15° 0°	15*
			~ / / /
CREE => LED			
		0°*	
LED	XP-L HI Asymmetric	90° 72° (100	
LED FWHM / FWTM	Asymmetric	90° 72° (100	
LED FWHM / FWTM Efficiency	Asymmetric 94 %	90° 72° 60°	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.8 cd/lm	90° 73° 60° 700 700	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.8 cd/lm 1	90° 32° 60° 400 400	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm	90° 730 60° 400 400	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.8 cd/lm 1	97. 720 607 409 409 409 409 409	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1	97. 720 60' 40' 40' 40' 40' 40' 40' 40' 4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1	97. 720 60' 40' 40' 40' 40' 40' 40' 40' 40' 40' 4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1	22 July 60 July 70 Jul	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1	20- 20- 60- 40- 40- 40- 40- 40- 40- 40- 4	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White	22 J20 60 ⁴	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White	22 July 60 July 50 July 50 July 30 July 30 July 70 Jul	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White XP-L2 Asymmetric 80 %		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.8 cd/lm 1 White XP-L2 Asymmetric 80 % 0.5 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.8 cd/lm 1 White XP-L2 Asymmetric 80 % 0.5 cd/lm 1		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White XP-L2 Asymmetric 80 % 0.5 cd/lm		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.8 cd/lm 1 White XP-L2 Asymmetric 80 % 0.5 cd/lm 1 White	Pr- 22 50 60' 50 50' 60' 90' 90' 90' 90' 90' 90' 90' 9	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE (LED EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.8 cd/lm 1 White XP-L2 Asymmetric 80 % 0.5 cd/lm 1 White		



		B.
LED	XT-E	75° 4 100 75°
FWHM / FWTM	Asymmetric	
Efficiency	84 %	60° 60°
LEDs/each optic	1	
Light colour	White	5° 00 5°
Required components		
Protective pla	te, glass	500
		30* 15 ⁵ 660 10* 30*
	DS	90° 93°
LED	LUXEON HL2X	
FWHM / FWTM	Asymmetric	750 750
Efficiency	81 %	
Peak intensity	0.5 cd/lm	60° 60°.
LEDs/each optic	1	
Light colour	White	457 300 457
Required components		
Protective pla	te, glass	400
		30* <u>5%</u> 0* 15* 30*
UMILE	DS	
LED	LUXEON T	
FWHM / FWTM	Asymmetric	
Efficiency	84 %	
LEDs/each optic	1	
Light colour	White	
Required components		
Protective pla	te, glass	
UMILE		90* 90*
	LUXEON XR-HL2X (L2H2-xxxxxxMLU010)	
LED		100
FWHM / FWTM	Asymmetric	70 400 400
FWHM / FWTM Efficiency	Asymmetric 96 %	
FWHM / FWTM Efficiency Peak intensity	Asymmetric	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 96 % 0.7 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 0.7 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 96 % 0.7 cd/lm 1 White	6 ³ 00 60 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 0.7 cd/lm 1 White	6 ³
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 0.7 cd/lm 1 White	6 ³ 00 60 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 96 % 0.7 cd/lm 1 White	6 ³



UMILE	DS	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON XR-HL2X (L2H2-xxxxxMLU010) Asymmetric 82 % 0.4 cd/lm 1 White	
Protective pla	te, glass	30° 23° 0° 23°
MICHIΛ		80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NV4WB35AM Asymmetric 95 % 0.7 cd/lm 1 White	
MICHIΛ		30° <u>50°</u> 13°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSW219F Asymmetric 82 % 0.6 cd/lm 1 White	90* 1791 605 77 700
Protective pla	te, glass	30-
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSW519A Asymmetric 93 % 0.7 cd/lm 1 White	



ΜΝΙCΗΙΛ		
LED	NVSW519A	90° 90'
FWHM / FWTM		750 760
	Asymmetric 83 %	
Efficiency		504 60
Peak intensity	0.4 cd/lm	
LEDs/each optic	1	
Light colour	White	457 300 45
Required components:		
Protective plate	glass	400
		30 ⁴ 15 ⁵ 0 ⁶ 15 ⁴ 30 ⁴
ΜΝΙCΗΙΛ		
LED	NVSxE21A	· · · · · · · · · · · · · · · · · · ·
FWHM / FWTM	Asymmetric	75°
Efficiency	81 %	
Peak intensity	0.7 cd/lm	504 50
LEDs/each optic	1	30
Light colour	White	
Required components:		
		500
Protective plate	, glass	000
		30 ⁴ 700 30 ⁴ 30 ⁴
MICHIΛ		90*
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	Asymmetric	17° (
Efficiency	82 %	
Peak intensity	0.6 cd/lm	60" 60"
LEDs/each optic	1	
Light colour	White	45* 45
Required components:		
		400
		40
Protective plate	, glass	50
Protective plate	, glass	200
	, glass	80 80 80 80 80 80 80 80 80 80 80 80 80 8
Ø ΝΙCΗΙΛ		90°
	NVSxx19B/NVSxx19C	00 00 00 00 00 00 00 00 00 00 00 00 00
ED FWHM / FWTM	NVSxx19B/NVSxx19C Asymmetric	92* 92'
ED FWHM / FWTM Efficiency	NVSxx19B/NVSxx19C Asymmetric 94 %	
ED FWHM / FWTM Efficiency Peak intensity	NVSxx19B/NVSxx19C Asymmetric	92* 92'
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	NVSxx19B/NVSxx19C Asymmetric 94 % 0.9 cd/lm 1	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxx19B/NVSxx19C Asymmetric 94 % 0.9 cd/lm	
ED FWHM / FWTM Efficiency Peak intensity	NVSxx19B/NVSxx19C Asymmetric 94 % 0.9 cd/lm 1	20 20 20 60* 20 20 60* 20 20 60* 60*
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxx19B/NVSxx19C Asymmetric 94 % 0.9 cd/lm 1	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxx19B/NVSxx19C Asymmetric 94 % 0.9 cd/lm 1	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	NVSxx19B/NVSxx19C Asymmetric 94 % 0.9 cd/lm 1	



[
OSRAM		I THAY KHELL
Opto Semiconductors	OSCONIQ P 3737 (2W version)	90*
FWHM / FWTM	Asymmetric	73° 4 200. 75°
	94 %	A A
Efficiency		50° 60°
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	40
Light colour	White	45. 57
Required components:		
		600
		700
		30* 10 42 10* 30*
OSRAM		
Opto Semiconductors	OSCONIO P 2727 (2W vorcion)	90* 90*
FWHM / FWTM	OSCONIQ P 3737 (3W version)	73° 2000 73°
Efficiency	Asymmetric 94 %	200
-	94 % 0.7 cd/lm	60° 60°
Peak intensity		
LEDs/each optic	1 White	400
Light colour	White	- 43°
Required components:		
		700
		30 ⁴ 30 ⁴ 30 ⁴ 30 ⁴
OSRAM		130° 135° 135° 30°
Opto Semiconductors	OSI ON Square CSSRM2/CSSRM3	20° 10 20° 20° 20°
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	25° 25° 25° 25°
Opto Semiconductors LED FWHM / FWTM	Asymmetric	19 ²
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 84 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.8 cd/lm	20° 10° 10° 00° 00° 00° 00° 00° 00° 00° 0
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.8 cd/lm 1	13 ² 13 ² 30 ²
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.8 cd/lm	25° 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 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.8 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2)	Asymmetric 84 % 0.8 cd/lm 1 White	25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2)	Asymmetric 84 % 0.8 cd/lm 1 White (2-SHD-WHT	25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) OSRAM Opto Semiconductors LED	Asymmetric 84 % 0.8 cd/lm 1 White K2-SHD-WHT OSLON Square CSSRM2/CSSRM3	25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 84 % 0.8 cd/lm 1 White K2-SHD-WHT OSLON Square CSSRM2/CSSRM3 Asymmetric	25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 84 % 0.8 cd/lm 1 White K2-SHD-WHT OSLON Square CSSRM2/CSSRM3 Asymmetric 78 %	25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components: C17580_STRADA-2) OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.8 cd/lm 1 White (2-SHD-WHT OSLON Square CSSRM2/CSSRM3 Asymmetric 78 % 0.8 cd/lm	25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.8 cd/lm 1 White (2-SHD-WHT OSLON Square CSSRM2/CSSRM3 Asymmetric 78 % 0.8 cd/lm 1	25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.8 cd/lm 1 White (2-SHD-WHT OSLON Square CSSRM2/CSSRM3 Asymmetric 78 % 0.8 cd/lm	25 - 20 - 20 - 22 - 6
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.8 cd/lm 1 White K2-SHD-WHT OSLON Square CSSRM2/CSSRM3 Asymmetric 78 % 0.8 cd/lm 1 White	25
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.8 cd/lm 1 White K2-SHD-WHT OSLON Square CSSRM2/CSSRM3 Asymmetric 78 % 0.8 cd/lm 1 White	25 - 10 - 72 67 - 60 - 67 90 - 67
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: C17580_STRADA-2) OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.8 cd/lm 1 White K2-SHD-WHT OSLON Square CSSRM2/CSSRM3 Asymmetric 78 % 0.8 cd/lm 1 White	25 - 20 - 20 - 22 - 6



PHILIPS		NY KHI
LED	Fortimo FastFlex LED 2x8 DA HE	
FWHM / FWTM	Asymmetric	100
Efficiency	97 %	
Peak intensity	0.6 cd/lm	60 ⁴ 60 ⁴
LEDs/each optic	1	30
Light colour	White	45* 440 45*
Required components:		
		200
		00
		700
		30 ⁴ 13 ⁵ 0 ⁶ 15 ⁴ 30 ⁴
PHILIPS		
LED	Fortimo FastFlex LED 2x8 DA HE	
FWHM / FWTM	Asymmetric	75°
Efficiency	83 %	
Peak intensity	0.4 cd/lm	50° 60°
LEDs/each optic	1	
Light colour	White	45*
Required components:		
Protective plate	e, glass	200
		30 ⁴
0.0.0.0.0.0.0		13 ³ 2 ⁴ / ₂ 15 ⁴
SAMSUN	lG	90* 90*
LED		
-	HiLOM RH16 (LH351C)	
FWHM / FWTM	HILOM RH16 (LH351C) Asymmetric	75%
FWHM / FWTM		75
FWHM / FWTM Efficiency Peak intensity	Asymmetric	
FWHM / FWTM Efficiency	Asymmetric 84 %	236 100 20 60° 200 60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.5 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 84 % 0.5 cd/lm 1 White e, glass	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 84 % 0.5 cd/lm 1 White , glass	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	Asymmetric 84 % 0.5 cd/lm 1 White 9, glass HiLOM RM8 Z (LH502C)	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM	Asymmetric 84 % 0.5 cd/lm 1 White e, glass FiLOM RM8 Z (LH502C) Asymmetric	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency	Asymmetric 84 % 0.5 cd/lm 1 White P, glass HILOM RM8 Z (LH502C) Asymmetric 84 %	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 84 % 0.5 cd/lm 1 White Asymmetric 84 % 0.5 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.5 cd/lm 1 White Asymmetric 84 % 0.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.5 cd/lm 1 White Asymmetric 84 % 0.5 cd/lm	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 84 % 0.5 cd/lm 1 White Asymmetric 84 % 0.5 cd/lm 1	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 84 % 0.5 cd/lm 1 White Asymmetric 84 % 0.5 cd/lm 1 White	
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate SAMSSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 84 % 0.5 cd/lm 1 White Asymmetric 84 % 0.5 cd/lm 1 White	



SAMSUN	16
LED	LH351D
FWHM / FWTM	Asymmetric
Efficiency	76 %
Peak intensity LEDs/each optic	0.4 cd/lm 1
Light colour	ı White
Required components:	
Protective plate	, glass
SEOUL SEOUL SEMICONDUCTOR	
LED	MJT 5050
FWHM / FWTM	Asymmetric
Efficiency	95 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
LED	Z5M3
FWHM / FWTM	Asymmetric
Efficiency	82 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Protective plate	, glass
SEOUL SEOUL SEMICONDUCTOR	
LED	Z5M4
FWHM / FWTM	Asymmetric
Efficiency	83 %
Peak intensity	0.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
Protective plate	, glass



TRIDON	IC	
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	754
Efficiency	81 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	451
Required component	S:	40
C17677_STRADA	-2X2-SHD-BLK	\times
		540
TRIDON	IC	94
LED	RLE 2x8 4000lm HP EXC2 OTD	
FWHM / FWTM	Asymmetric	78 5 100
Efficiency	84 %	
Peak intensity	0.7 cd/lm	ene de la companya de
LEDs/each optic	1	
Light colour	White	451 300
Required component	S:	
Protective p	late diase	
Fiblective p	iaic, giass	50



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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