

PRODUCT DATASHEET C13896_STRADA-SQ-FS

STRADA-SQ-FS

Forward throw beam for area lighting. Version with location pins.

SPECIFICATION:

Dimensions	25.0 x 25.0 mm
Height	12.4 mm
Fastening	glue, pin
ROHS compliant	yes 🛈



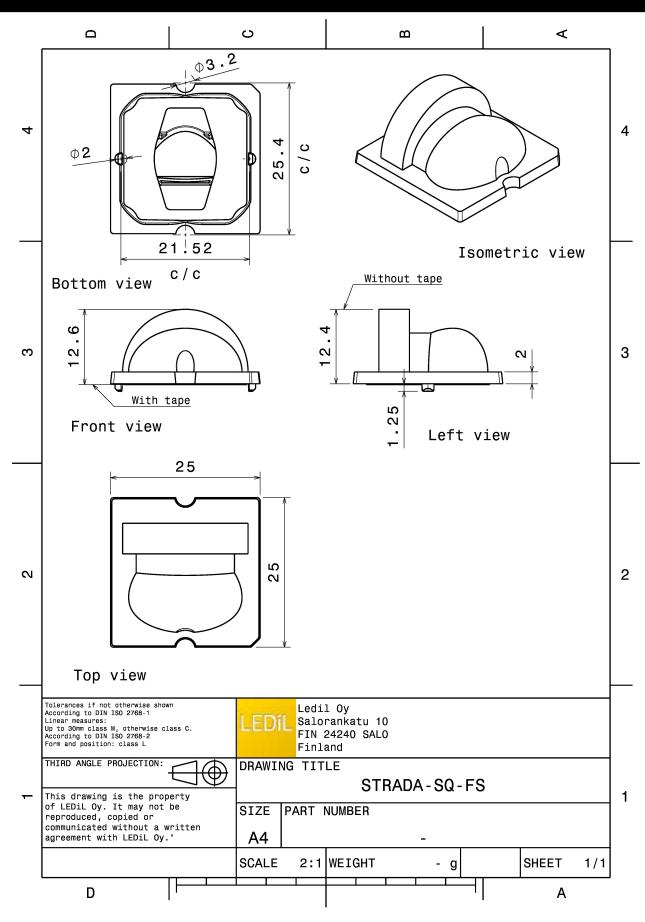
MATERIALS:

Component	Туре	Material	Colour	Finish
STRADA-SQ-FS	Single lens	PMMA	clear	

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13896_STRADA-SQ-FS	1568	294	98	6.8
» Box size: 480 x 280 x 300 mm				

PRODUCT DATASHEET C13896_STRADA-SQ-FS



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



OPTICAL RESULTS (MEASURED):

LEDS		
		90* 90*
LED	MK-R	739 20 730
FWHM / FWTM	Asymmetric	
Efficiency	93 %	
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	67 67
Required componer	nts:	1000
		1200
		1400
		30* 1500 30* 30*
CREE ÷		
LED	XHP50	20°
		20 20 20 20
FWHM / FWTM	Asymmetric	40
Efficiency	93 %	50 ⁴ 60 ⁴
Peak intensity	0.9 cd/lm	
LEDs/each optic	1	
Light colour	White	45° 000 45°
Required componer	nts:	1090
		1220
		1600
		13 ³ 0 ⁴ 15 ⁴
UNLL V.		
	VUD70	50°
LED	XHP70	20*
LED FWHM / FWTM	Asymmetric	20************************************
LED FWHM / FWTM Efficiency	Asymmetric 80 %	
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 80 % 0.6 cd/lm	90* 90 20 20 70 05* 60 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 80 % 0.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 80 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 80 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 80 % 0.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	Asymmetric 80 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective	Asymmetric 80 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective	Asymmetric 80 % 0.6 cd/lm 1 White hts: plate, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Protective	Asymmetric 80 % 0.6 cd/lm 1 White hts: plate, glass XM-L	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Protective CREE LED FWHM / FWTM	Asymmetric 80 % 0.6 cd/lm 1 White hts: plate, glass XM-L Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Protective	Asymmetric 80 % 0.6 cd/lm 1 White hts: plate, glass XM-L	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Protective CREE LED FWHM / FWTM	Asymmetric 80 % 0.6 cd/lm 1 White hts: plate, glass XM-L Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective Protective	Asymmetric 80 % 0.6 cd/lm 1 White hts: plate, glass XM-L Asymmetric 93 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective Protective	Asymmetric 80 % 0.6 cd/lm 1 White hts: plate, glass XM-L Asymmetric 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective Protective CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 0.6 cd/lm 1 White hts: plate, glass XM-L Asymmetric 93 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective Protective	Asymmetric 80 % 0.6 cd/lm 1 White hts: plate, glass XM-L Asymmetric 93 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective Protective CREECS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 0.6 cd/lm 1 White hts: plate, glass XM-L Asymmetric 93 % 1.2 cd/lm 1 White	90 100 100 100 100 100 100 100 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componen Protective Protective CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 0.6 cd/lm 1 White hts: plate, glass XM-L Asymmetric 93 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Protective Protective CREE EDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 80 % 0.6 cd/lm 1 White hts: plate, glass XM-L Asymmetric 93 % 1.2 cd/lm 1 White	



OPTICAL RESULTS (MEASURED):

CREE ÷	XP-L HD	
FWHM / FWTM	Asymmetric	
Efficiency	94 %	400
Peak intensity	1 cd/lm	60* 600 60*
LEDs/each optic	1	$X \times I \to X \times I$
Light colour	White	45* 800 45*
Required component		1000
		1200
		1430
		30° 15° 30°
		50°
LED	XP-L2	
FWHM / FWTM	Asymmetric	75°
Efficiency	94 %	400
Peak intensity	1 cd/lm	50°
LEDs/each optic	1	$X \times I \times X$
Light colour	White	45° 000 45°
Required compone	nts:	1000
		1200
		1490
		30° 13° 30° 30°
		90* 90*
LEDS	XT-E	92°
LED	XT-E Asymmetric	30° 33° 33°
LED FWHM / FWTM	Asymmetric	90° 90° 73° 60 90°
LED FWHM / FWTM Efficiency	Asymmetric 93 %	90° 73° 60° 60°
LEDs LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 1.2 cd/m	95°
LEDs FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 1.2 cd/lm 1	
LEDs EFWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1.2 cd/m 1 White	60 ⁻
LEDs FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 93 % 1.2 cd/m 1 White	60 ⁻
LEDs EFWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1.2 cd/m 1 White	60 ⁻
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1.2 cd/m 1 White	60 ⁻
LEDs EFWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 93 % 1.2 cd/m 1 White	60° 67. 67 10° 67.
LEDs Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 93 % 1.2 cd/lm 1 White nts:	60° 67. 67 10° 67.
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 93 % 1.2 cd/lm 1 White hts:	60° 67. 67 10° 67.
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	Asymmetric 93 % 1.2 cd/m 1 White hts: EDS LUXEON M/MX	
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Component LED FWHM / FWTM	Asymmetric 93 % 1.2 cd/m 1 White hts: EDS LUXEON M/MX Asymmetric	
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Component LED FWHM / FWTM Efficiency	Asymmetric 93 % 1.2 cd/lm 1 White hts: EDS LUXEON M/MX Asymmetric 92 %	
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Component LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 93 % 1.2 cd/m 1 White hts: EDS LUXEON M/MX Asymmetric 92 % 0.9 cd/m	
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required component Compone	Asymmetric 93 % 1.2 cd/m 1 White hts: EDS LUXEON M/MX Asymmetric 92 % 0.9 cd/m 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Comp	Asymmetric 93 % 1.2 cd/m 1 White hts: EDS LUXEON M/MX Asymmetric 92 % 0.9 cd/m 1 White	
LEDS LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required component Compone	Asymmetric 93 % 1.2 cd/m 1 White hts: EDS LUXEON M/MX Asymmetric 92 % 0.9 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Comp	Asymmetric 93 % 1.2 cd/m 1 White hts: EDS LUXEON M/MX Asymmetric 92 % 0.9 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Comp	Asymmetric 93 % 1.2 cd/m 1 White hts: EDS LUXEON M/MX Asymmetric 92 % 0.9 cd/m 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Composed Comp	Asymmetric 93 % 1.2 cd/m 1 White hts: EDS LUXEON M/MX Asymmetric 92 % 0.9 cd/m 1 White	



OPTICAL RESULTS (MEASURED):

	.EDS	80.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON MZ Asymmetric 94 % 1.2 cd/lm 1 White ents:	5° 6° 13° 7°
OSRAM Opto Semiconductors		90* 90*
LED	OSLON Square EC	- And -
FWHM / FWTM		786
	Asymmetric	400
Efficiency	Asymmetric 94 %	
Efficiency	94 %	80 ⁴ 000 004
Efficiency Peak intensity	94 % 1.4 cd/lm 1 White	



LEDs		
LED	MHB-A/B	
FWHM / FWTM	Asymmetric	
Efficiency	%	
LEDs/each optic	1	
Light colour	White	
Required components:		
		90* 90*
LED	XHP50.2	
FWHM / FWTM	Asymmetric	730
Efficiency	92 %	400
Peak intensity	0.9 cd/lm	60°.
LEDs/each optic	1	$X \times / T \setminus X \times$
Light colour	White	25° 200 45°
Required components:		1000
		1200
		1400
		30° 15° 30°
CREE 🚖		
LEDs		90* 90*
LED	XHP50.3 HD	20
LED FWHM / FWTM	Asymmetric	
LEDs LED FWHM / FWTM Efficiency	Asymmetric 94 %	97 194 195 196 197 197 197 197 197 197 197 197 197
LEDs LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.9 cd/lm	
LEDs EHMM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1	6.4 6.9
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm	65 69 69 67 69
LEDs EHMM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1	40 60 60
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1	65 69 69 67 69
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1	60° 60° 60° 60° 60° 60° 60° 60° 60° 60°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1	60°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1	60° 60° 60° 60° 60° 60° 60° 60° 60° 60°
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1	40 69 69 90 90 90 90 90 90 90 90 90 90 90 90 90
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1 White	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1 White XHP50.3 HI	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 94 % 0.9 cd/lm 1 White XHP50.3 HI Asymmetric	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LEDs LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 94 % 0.9 cd/lm 1 White XHP50.3 HI Asymmetric 96 %	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1 White XHP50.3 HI Asymmetric 96 % 1 cd/lm	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White XHP50.3 HI Asymmetric 96 % 1 cd/lm 1	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 94 % 0.9 cd/lm 1 White XHP50.3 HI Asymmetric 96 % 1 cd/lm 1	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White XHP50.3 HI Asymmetric 96 % 1 cd/lm 1	
LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LEDs LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 94 % 0.9 cd/lm 1 White XHP50.3 HI Asymmetric 96 % 1 cd/lm 1	



LED	XHP70.3 HD	90* 90*
FWHM / FWTM		730 750
	Asymmetric	
Efficiency	93 %	60° 400 60°
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	50
Light colour	White	45° 6°
Required components:		810
		1000
		\times
		30° 1200 30°
		90* 90*
	XP-G3	73°
FWHM / FWTM	Asymmetric	400
Efficiency	93 %	.60° 60°.
Peak intensity	1 cd/lm	
LEDs/each optic	1	80
Light colour	White	45° 45°
Required components:		1200
		3490
		30* 1600 30* 30*
CREE 🚖		THAT YEAR
		92
LED	XP-G3	9 ¹ 20 20
LED FWHM / FWTM	Asymmetric	90° 90° 73° 20° 73°
LED FWHM / FWTM Efficiency	Asymmetric 92 %	90° 73° 200 200 200 200 5° 5°
LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 1.1 cd/lm	97 73 65 60 60 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.1 cd/lm	60 6A
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.1 cd/lm 1	61 ⁴ 60 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.1 cd/lm 1	6° 60 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.1 cd/lm 1	67 69 67 90 67 1000 67
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 92 % 1.1 cd/lm 1	6° 69 6° 6°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.1 cd/lm 1 Red	6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.1 cd/lm 1 Red	6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.1 cd/lm 1 Red	64° 60 67 80° 67° 1000 67° 1200 67°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.1 cd/lm 1 Red S LUXEON 5050 Round LES Asymmetric	60° 60 60° 60° 60° 60° 1000 00° 1000 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.1 cd/lm 1 Red S LUXEON 5050 Round LES Asymmetric 94 %	64° 69 67 67 800 67 67 800 67 1255 67 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 125 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 92 % 1.1 cd/lm 1 Red S LUXEON 5050 Round LES Asymmetric 94 % 1 cd/lm	64° 69 67 67 800 67 67 800 67 1255 67 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 125 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.1 cd/lm 1 Red S LUXEON 5050 Round LES Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.1 cd/lm 1 Red S LUXEON 5050 Round LES Asymmetric 94 % 1 cd/lm	64° 69 67 67 800 67 67 800 67 1255 67 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 1255 7 125 7
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CONTINUES LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 92 % 1.1 cd/lm 1 Red S LUXEON 5050 Round LES Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.1 cd/lm 1 Red S LUXEON 5050 Round LES Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.1 cd/lm 1 Red S LUXEON 5050 Round LES Asymmetric 94 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 92 % 1.1 cd/lm 1 Red S LUXEON 5050 Round LES Asymmetric 94 % 1 cd/lm 1	



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UMILED)S	90° 90°
LED	LUXEON 5050 Round LES	
FWHM / FWTM	Asymmetric	73* 20% 73*
Efficiency	86 %	40
Peak intensity	1 cd/lm	60* 600
LEDs/each optic	1	
Light colour	White	.5
Required components:		1000
		1290
Protective plate	e, glass	1490
		30* 1650 30*
		<u> </u>
		90* 90*
LED	LUXEON 5050 Square LES	
FWHM / FWTM	Asymmetric	400
Efficiency	93 %	. 604
Peak intensity	1.1 cd/lm	
LEDs/each optic	1	$X / T \setminus X$
Light colour	White	45' 63'
Required components:		1200
		X X
		1690
		130° 15° 30°
)S	
		<u>80</u>
LED	LUXEON 5050 Square LES	99 92 730
LED FWHM / FWTM	LUXEON 5050 Square LES Asymmetric	90° 73° 40
LED FWHM / FWTM Efficiency	LUXEON 5050 Square LES Asymmetric 81 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Square LES Asymmetric 81 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1	60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White	60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White	46 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White	490 600 600 1000 1200 1200 1200 1200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White	5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White a, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White a, glass	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White a, glass NFMW48xA Asymmetric 91 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate Protective plate	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White e, glass NFMW48xA Asymmetric 91 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate VICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White e, glass NFMW48xA Asymmetric 91 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White e, glass NFMW48xA Asymmetric 91 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate VICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White e, glass NFMW48xA Asymmetric 91 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White e, glass NFMW48xA Asymmetric 91 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Protective plate WICHIN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 5050 Square LES Asymmetric 81 % 0.9 cd/lm 1 White e, glass NFMW48xA Asymmetric 91 % 1 cd/lm 1	



Г		
Μ ΝΙCΗΙΛ		
LED	NVSW219F	
FWHM / FWTM	Asymmetric	73"
Efficiency	93 %	400
Peak intensity	1.1 cd/lm	60°
LEDs/each optic	1	
Light colour	White	
Required components:	wille	45° 45°
Required components.		
		26,00
		30° 15° 30°
Μ ΝΙCΗΙΛ		
LED	NVSW519A	
FWHM / FWTM	Asymmetric	73* 200 73*
Efficiency	93 %	400
Peak intensity	1 cd/lm	60* 600 601
LEDs/each optic	1	80
Light colour	White	45° 1000 45°
Required components:		
		1200
		1420
		1000
l l		30* 30*
Į.		152 00 154
Μ ΝΙCΗΙΛ		23 ³
	NVSxx19B/NVSxx19C	12° 2° 20° 20°
LED	NVSxx19B/NVSxx19C 147.0 + 22.0° / 159.0 + 84.0°	12° 12° 99°92°
LED FWHM / FWTM	NVSxx19B/NVSxx19C 147.0 + 22.0° / 159.0 + 84.0° 93 %	92° 92° 73° 409
LED FWHM / FWTM Efficiency	147.0 + 22.0° / 159.0 + 84.0°	99° 79° 79° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity	147.0 + 22.0° / 159.0 + 84.0° 93 %	10 ⁻ 10 ⁺ 10 ⁺
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1	25° 25° 25° 25° 25° 25° 25° 25° 25° 25°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1	20° 20° 20° 20° 20° 20° 20° 20°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1 White	90- 10- 10- 10- 10- 10- 10- 10- 10- 10- 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1 White NWSx229A Asymmetric	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1 White NWSx229A Asymmetric 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: EXAMPLAN Efficiency Peak intensity	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1 White NWSx229A Asymmetric 92 % 1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1 White NWSx229A Asymmetric 92 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1 White NWSx229A Asymmetric 92 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1 White NWSx229A Asymmetric 92 % 1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	147.0 + 22.0° / 159.0 + 84.0° 93 % 1.2 cd/lm 1 White NWSx229A Asymmetric 92 % 1 cd/lm 1	



OSRAM		
Opto Semiconductors	Duris S8	90* 90*
LED FWHM / FWTM		750 750
	Asymmetric 94 %	400
Efficiency		50° 60°
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	6° 1000 6°
Required components:		1290
		1400
		1500
		30 ⁴ 15 ⁵ 0 ⁶ 15 ⁵ 30 ⁴
OSRAM Opto Semiconductors		THY KHT
Opto Semiconductors	Duris S8	90°
FWHM / FWTM	Asymmetric	73° 77°
Efficiency	86 %	400
Peak intensity	0.9 cd/lm	50 ⁴ 500
LEDs/each optic	1	
Light colour	White	2 ⁺
Required components:	White	1000
required components.		1290
Protective plate	e, glass	
		1630
		38* 150 15° 15° 38*
OSRAM		
Opto Semiconductors		90° 10° 10° 00°
Opto Semiconductors	OSCONIQ P 7070	200° 100° 100° 100° 100° 100° 100° 100°
Opto Semiconductors LED FWHM / FWTM	Asymmetric	20° 15 ¹ 15 ¹ 15 ¹ 20 ¹ 15
opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 91 %	25 ³ 0 ² 15 ⁴ 90 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	Asymmetric 91 % 1.1 cd/lm	25 ³ 0 ² 15 ⁴ 90 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 1.1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 1.1 cd/lm	25 ³ 0 ² 15 ⁴ 90 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Asymmetric 91 % 1.1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 1.1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Asymmetric 91 % 1.1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 1.1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Asymmetric 91 % 1.1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components:	Asymmetric 91 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	Asymmetric 91 % 1.1 cd/lm 1 White OSCONIQ S 5050	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	Asymmetric 91 % 1.1 cd/lm 1 White OSCONIQ S 5050 Asymmetric	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	Asymmetric 91 % 1.1 cd/lm 1 White OSCONIQ S 5050 Asymmetric 96 %	
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 91 % 1.1 cd/lm 1 White OSCONIQ S 5050 Asymmetric 96 % 0.9 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 91 % 1.1 cd/lm 1 White OSCONIQ S 5050 Asymmetric 96 % 0.9 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 91 % 1.1 cd/lm 1 White OSCONIQ S 5050 Asymmetric 96 % 0.9 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 91 % 1.1 cd/lm 1 White OSCONIQ S 5050 Asymmetric 96 % 0.9 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 91 % 1.1 cd/lm 1 White OSCONIQ S 5050 Asymmetric 96 % 0.9 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 91 % 1.1 cd/lm 1 White OSCONIQ S 5050 Asymmetric 96 % 0.9 cd/lm 1	



OSRAM

LED	OSCONIQ S 5050
FWHM / FWTM	Asymmetric
Efficiency	82 %
Peak intensity	0.8 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

Protective plate, glass

OSRAM

Contemporte Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square CSSRM2/CSSRM3 Asymmetric 93 % 1.2 cd/lm 1 White	9° 99° ,7° 60° 6° 6° 6° 6° 1200 6°
OSRAM		204 - 22 ⁵ 04 13 - 20 ⁴
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3	90* 90*
FWHM / FWTM	Asymmetric	75% 400 75*
Efficiency	94 %	
Peak intensity	1.3 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	45° 1200 45°
Required components:		1500 30* 23 ³ 0 ⁴ 23 ⁴ 30 ⁴
OSRAM Opto Semiconductors		9°
LED	SFH 4715AS	75° 400 75°
FWHM / FWTM	Asymmetric	50 ⁴ 200 50 ⁴
Efficiency	93 %	\wedge / / / \wedge / \wedge /
LEDs/each optic	1	1220
Light colour	IR	45* 63*
Required components:		100
		30° 2400 30° 30°



OSRAM Opto Semiconductors		20° - Contraction of the second
LED	SFH 4716AS	
FWHM / FWTM	Asymmetric	
Efficiency	93 %	
LEDs/each optic	1	
Light colour	IR	er <u>80</u>
Required component	S:	500
		120
		30 ⁴ 50 ² 0 ³ 30 ⁴



PRODUCT DATASHEET C13896_STRADA-SQ-FS

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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