

PRODUCT DATASHEET C13235_SATU-W

SATU-W

~35° wide beam optimized for CREE XT-E

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.8 mm
Height	8.9 mm
Fastening	glue, pin
ROHS compliant	yes 🛈



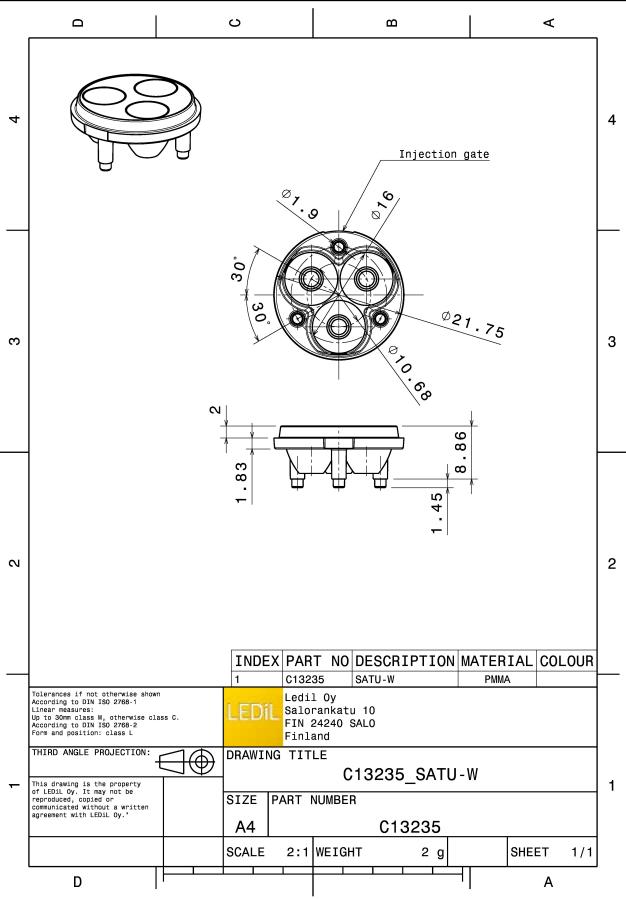
MATERIAL SPECIFICATIONS:

» Box size: 480 x 280 x 300 mm

Component SATU-W	Type Multi-lens	Material PMMA		Colour clear	Finish
ORDERING INFORMATION:					
Component C13235_SATU-W		Qty in box 2880	MOQ 120	MPQ 120	Box weight (kg) 7.7

PRODUCT DATASHEET C13235_SATU-W





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



PHOTOMETRIC DATA (MEASURED):

LED	XB-D White	
FWHM / FWTM	31.0° / 60.0°	
Efficiency	77 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
rtequired compone		
LED	XP-E	
FWHM / FWTM	33.0° / 59.0°	
Efficiency	84 %	
Peak intensity	2.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
		90°
LED	XP-E2	
FWHM / FWTM	27.0° / 54.0°	73
Efficiency	86 %	
Peak intensity	2.9 cd/lm	
LEDs/each optic	1	
Light colour	White	बर ⁻
Required compone		
		34 ⁴
		35 ⁵ (*5 ⁴
LED	XP-G	
FWHM / FWTM	34.0° / 63.0°	
Efficiency	82 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		



PHOTOMETRIC DATA (MEASURED):

ODDE A			
CREE 🔶 LED			90° 90°
LED	XP-G2		
FWHM / FWTM	35.0° / 64.0°		75.
Efficiency	87 %		
Peak intensity	2 cd/lm		
LEDs/each optic	1		
Light colour	White		45
Required compone			
			1600
			30°
A			135 ⁰ 0 ⁰ 135 ⁰
M LUMIL	.EDS		90* 90*
LED	LUXEON T		75.
FWHM / FWTM	37.0° / 66.0°		400
Efficiency	87 %		60° 60'
Peak intensity	1.8 cd/lm		
LEDs/each optic	1		
Light colour	White		gr et
Required compone	ents:		
			1630
			304 179 04 179 36
	EDS		90°
LED	LUXEON TX		
			75
FWHM / FWTM	38.0° / 67.0°		<u>30</u>
FWHM / FWTM Efficiency	38.0° / 67.0° 86 %		91
FWHM / FWTM Efficiency Peak intensity	38.0° / 67.0° 86 % 1.8 cd/lm		000
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	38.0° / 67.0° 86 %		gr
FWHM / FWTM Efficiency Peak intensity	38.0° / 67.0° 86 % 1.8 cd/lm 1 White		er 60 60 60 60 60 60 60 60 60 60
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 67.0° 86 % 1.8 cd/lm 1 White		97 - 29 00 - 00 00 - 00 00 - 00 00 - 00 00 - 00 00 00 - 00 00 00 00 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 67.0° 86 % 1.8 cd/lm 1 White		27 00 00 00 00 00 00 00 00 00 00 00 00 00
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 67.0° 86 % 1.8 cd/lm 1 White		34
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 67.0° 86 % 1.8 cd/lm 1 White ents:		30 ³
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 67.0° 86 % 1.8 cd/lm 1 White ents:		20
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 67.0° 86 % 1.8 cd/lm 1 White ents:		30 ³
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 67.0° 86 % 1.8 cd/lm 1 White ents: NF2x757A 32.0° / 63.0°		30 ³
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 67.0° 86 % 1.8 cd/lm 1 White ents: NF2x757A 32.0° / 63.0° 80 %		30 ³
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 67.0° 86 % 1.8 cd/lm 1 White ents: NF2x757A 32.0° / 63.0° 80 % 2 cd/lm		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 67.0° 86 % 1.8 cd/lm 1 White ents: NF2x757A 32.0° / 63.0° 80 % 2 cd/lm 1		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 67.0° 86 % 1.8 cd/lm 1 White ents: NF2x757A 32.0° / 63.0° 80 % 2 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 67.0° 86 % 1.8 cd/lm 1 White ents: NF2x757A 32.0° / 63.0° 80 % 2 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 67.0° 86 % 1.8 cd/lm 1 White ents: NF2x757A 32.0° / 63.0° 80 % 2 cd/lm 1 White		
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	38.0° / 67.0° 86 % 1.8 cd/lm 1 White ents: NF2x757A 32.0° / 63.0° 80 % 2 cd/lm 1 White		



PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors			90° 90°
LED	OSLON Square EC		
FWHM / FWTM	37.0° / 66.0°		25* 25*
Efficiency	85 %		not not
Peak intensity	1.8 cd/lm		
LEDs/each optic	1		
Light colour	White		gr
Required compone	nts:		100
			30 ⁻ 52 ⁻ 10 ⁻ 32 ⁻
OSRAM Opto Semiconductors			
LED	OSLON SSL 80		
FWHM / FWTM	30.0° / 58.0°		
Efficiency	80 %		
Peak intensity	2.4 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone	nts:		I
SAMSI	JNG	-	50° 50°
LED	LH351Z		
FWHM / FWTM	36.0° / 64.0°		
Efficiency	87 %		60° 60°
Peak intensity	2 cd/lm		
LEDs/each optic	1		
Light colour	White		çr
Required compone	nts:		
			30° 35° 35°
SEOUL			
			90°
	Z5M1/Z5M2		<u>90*</u>
LED FWHM / FWTM	Z5M1/Z5M2 38.0° / 66.0°		37. 57. 57.
FWHM / FWTM	38.0° / 66.0°		90° 90° 90° 90° 90° 90° 90° 90° 90° 90°
FWHM / FWTM Efficiency	38.0° / 66.0° 92 %		64 64 64 10 10 10 10 10 10 10 10 10 10 10 10 10
FWHM / FWTM Efficiency Peak intensity	38.0° / 66.0°		00 64 25 26 26 26 26 26
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	38.0° / 66.0° 92 % 1.7 cd/lm 1		g
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 66.0° 92 % 1.7 cd/lm 1 White		60 60 80 80 80
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	38.0° / 66.0° 92 % 1.7 cd/lm 1 White		6. 6. 90 25
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 66.0° 92 % 1.7 cd/lm 1 White		g
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	38.0° / 66.0° 92 % 1.7 cd/lm 1 White		6. 6. 90 25



PHOTOMETRIC DATA (SIMULATED):

	J Series 3030	97 97
FWHM / FWTM	33.0° / 60.0°	
Efficiency	96 %	
Peak intensity	2.4 cd/lm	
LEDs/each optic	1	
Light colour	White	45*
Required components:		1500
		30° 15° 0° 15°
		90*
		73*
LED	XT-E	
FWHM / FWTM	34.0°	60°
Efficiency	%	
LEDs/each optic	1	
Light colour	White	42. S.
Required components:		20.0
		30° 2400 36°
		90* 90*
		90 ⁴
LED	LUXEON H50-2	27 27 27
LED FWHM / FWTM	LUXEON H50-2 40.0° / 64.0°	50° 50°
LED FWHM / FWTM Efficiency	LUXEON H50-2 40.0° / 64.0° %	64 00 04 22 23 24 25 25
LED FWHM / FWTM Efficiency Peak intensity	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm	00 00 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1	6. 00 00 0. 05 0. 05 00 05
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm	gr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1	gr gr gr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1	9° 9° 9° 9° 6° 80 0° 100 0°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1	5° 6° 6° 700 700 700 700 700 700 700 700 700 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1	21 21 21 21 21 21 21 21 21 21 21 21 21 2
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1 White	91 ⁴ 91 ⁴ 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1 White NVSxx19B/NVSxx19C	3. 3. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 31. 30. 32. 30. 33. 30. 34. 30. 35. 30. 36. 30. 36. 30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1 White NVSxx19B/NVSxx19C 39.0° / 64.0°	30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1 White NVSxx19B/NVSxx19C 39.0° / 64.0° 87 %	30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1 White NVSxx19B/NVSxx19C 39.0° / 64.0° 87 % 1.8 cd/lm	30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1 White NVSxx19B/NVSxx19C 39.0° / 64.0° 87 % 1.8 cd/lm 1	30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30. 30.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1 White NVSxx19B/NVSxx19C 39.0° / 64.0° 87 % 1.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1 White NVSxx19B/NVSxx19C 39.0° / 64.0° 87 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1 White NVSxx19B/NVSxx19C 39.0° / 64.0° 87 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1 White NVSxx19B/NVSxx19C 39.0° / 64.0° 87 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON H50-2 40.0° / 64.0° % 2 cd/lm 1 White NVSxx19B/NVSxx19C 39.0° / 64.0° 87 % 1.8 cd/lm 1	



PHOTOMETRIC DATA (SIMULATED):

OSRAM		90° 90°
Opto Semiconductors		
LED FWHM / FWTM	OSLON Black 27.0° / 51.0°	75
Efficiency	85 %	- 000
Peak intensity	3.1 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	u White	45°
Required components:	White	
required components.		2330
		30° 30° 30° 30°
OSRAM Opto Semiconductors		90° 20
LED	Synios P2720 1/2 mm	
FWHM / FWTM	30.0° / 58.0°	25*
Efficiency	94 %	
Peak intensity	2.7 cd/lm	60 ⁻
LEDs/each optic	1	
Light colour	White	e ^r <u>1650</u> e ^e
Required components:		
		\times / \times / \times
		000
		30° 32°
		15% 9% 15%
SAMSUN	IG	90° 90°
		55'
	LH351B 42.0° / 66.0°	39 ⁴ 39 ⁴ 39 00
LED FWHM / FWTM	LH351B	
LED FWHM / FWTM Efficiency	LH351B 42.0° / 66.0°	
LED FWHM / FWTM	LH351B 42.0° / 66.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1	73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1	77 40 64 66 77 120 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1	77 40 64 66 77 120 100
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1	30 100 30 40 00 00 50 00 00 50 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: second semiconductor LED	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1 White	30 100 30 40 00 00 50 00 00 50 00 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: storut staniconductor LED FWHM / FWTM	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1 White Z8Y22P 41.0° / 68.0°	25 26 27 26 27 26 27 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1 White Z8Y22P 41.0° / 68.0° 87 %	22. 23. 100 100 100 100 100 100 100 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1 White Z8Y22P 41.0° / 68.0° 87 % 1.6 cd/lm	25 26 27 26 27 26 27 27 27 27 27 27 27 27 27 27
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: SEOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1 White Z8Y22P 41.0° / 68.0° 87 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1 White Z8Y22P 41.0° / 68.0° 87 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1 White Z8Y22P 41.0° / 68.0° 87 % 1.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH351B 42.0° / 66.0° 94 % 1.8 cd/lm 1 White Z8Y22P 41.0° / 68.0° 87 % 1.6 cd/lm 1	



GENERAL INFORMATION:

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

MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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LEDiL Oy

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