

# 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 🛈

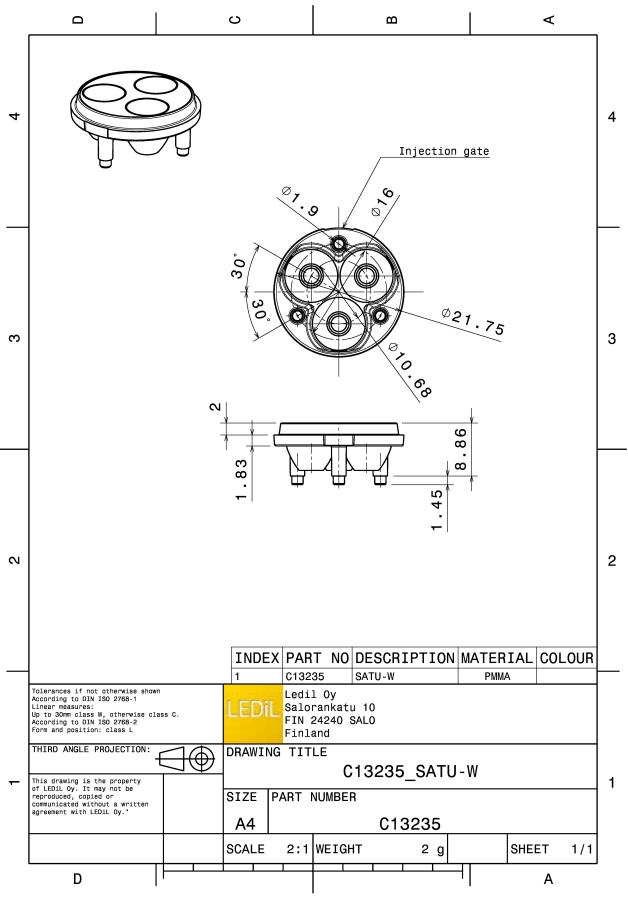


### **MATERIAL SPECIFICATIONS:**

<b>Component</b> SATU-W	<b>Type</b> Multi-lens	<b>Material</b> PMMA		Colour clear	Finish
ORDERING INFORMATION:					
<b>Component</b> C13235_SATU-W » Box size: 480 x 280 x 300 mm		<b>Qty in box</b> 2880	<b>MOQ</b> 120	<b>MPQ</b> 120	Box weight (kg) 7.7

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



### PHOTOMETRIC DATA (MEASURED):

CREE -		
LED	XB-D	
FWHM / FWTM	31.0° / 60.0°	
Efficiency	77 %	
Peak intensity	2.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
CREE 4		
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	ents:	
CREE -		95°
LED	XP-E2	
FWHM / FWTM	27.0° / 54.0°	
Efficiency	86 %	
Peak intensity	2.9 cd/lm	90° (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
LEDs/each optic	1	
Light colour	White	
Required compone		
Required compone		
		300
		$\times$ / $\vee$ $\times$
		30 <sup>4</sup>
CREE -		
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	ints:	



### PHOTOMETRIC DATA (MEASURED):

CREE ≑	
	90 <sup>*</sup> 90
LED XP-G2	
FWHM / FWTM 35.0° / 64.0°	
Efficiency 87 %	
Peak intensity 2 cd/lm	
LEDs/each optic 1	
Light colour White	e e
Required components:	
	No.
UMILEDS	339 <sup>1</sup> of 13 <sup>2</sup>
LED LUXEON T	75
FWHM / FWTM 37.0° / 66.0°	
Efficiency 87 %	
Peak intensity 1.8 cd/lm	
LEDs/each optic 1	
Light colour White	
Required components:	
	300 300 30
	301 32
LED LUXEON TX	
FWHM / FWTM 38.0° / 67.0°	
Efficiency 86 %	
Peak intensity 1.8 cd/lm	
LEDs/each optic 1	
Light colour White	a, a
Required components:	
	00
	30. 30
<b>Μ</b> ΝΙCΗΙΛ	25 <sup>th</sup> 0 <sup>th</sup> 125 <sup>th</sup>
LED NF2x757A	
FWHM / FWTM 32.0° / 63.0°	
Efficiency 80 % Peak intensity 2 cd/lm	
LEDs/each optic 1	
Light colour White	
Required components:	
	359



### PHOTOMETRIC DATA (MEASURED):

OSRAM		
Opto Semiconductors		30 <sup>4</sup> 50 <sup>4</sup>
LED	OSLON Square EC	
FWHM / FWTM	37.0° / 66.0°	
Efficiency	85 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	¢. A a
Required compone	ents:	
		100
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		
SAMS	UNG	90° 90
LED	LH351Z	
FWHM / FWTM	36.0° / 64.0°	77
Efficiency	87 %	
Peak intensity	2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		560
		157 07 155
SEOUL		90° 99
	7514/75140	
LED FWHM / FWTM	Z5M1/Z5M2	75
Efficiency	38.0° / 66.0° 92 %	
	92 % 1.7 cd/lm	
Peak intensity LEDs/each optic	1.7 ca/im 1	
	White	
Light colour Required compone		
	ะทเอ.	
		500
		30 30 30 30



### PHOTOMETRIC DATA (SIMULATED):

-		
CREE ≑		90* 90*
· · · · · ·		
LED	XT-E	
FWHM / FWTM	34.0°	60° 60°
Efficiency	%	
LEDs/each optic	1	
Light colour	White	5°
Required components:		1000
		30° 2400 36° 36°
	DS	90° 90°
LED	LUXEON H50-2	
FWHM / FWTM	40.0° / 64.0°	75 75
Efficiency	%	
Peak intensity	2 cd/lm	60 <sup>14</sup>
LEDs/each optic	1	
Light colour	White	gr dg
Required components:		
		1600
		300
<b>ΝΙCΗΙΛ</b>		30°
LED	NVSxx19B/NVSxx19C	35 36 36
LED FWHM / FWTM	39.0° / 64.0°	50° 50° 50°
LED FWHM / FWTM Efficiency	39.0° / 64.0° 87 %	50 <sup>4</sup> 55 <sup>4</sup> 75 <sup>1</sup> 600 600
LED FWHM / FWTM Efficiency Peak intensity	39.0° / 64.0° 87 % 1.8 cd/lm	600 600 600 600 600 600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	39.0° / 64.0° 87 % 1.8 cd/lm 1	5° 50 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	39.0° / 64.0° 87 % 1.8 cd/lm	5 <sup>1</sup> 5 <sup>1</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	39.0° / 64.0° 87 % 1.8 cd/lm 1	75 60 67 80 80 80 80 80 80 80 80 80 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	39.0° / 64.0° 87 % 1.8 cd/lm 1	75 60 67 80 80 80 80 80 80 80 80 80 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	39.0° / 64.0° 87 % 1.8 cd/lm 1	75 any by by by by by by by by by b
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	39.0° / 64.0° 87 % 1.8 cd/lm 1	75 400 64 64 1200 1000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	39.0° / 64.0° 87 % 1.8 cd/lm 1 White	75 40 57 40 40 40 40 40 40 40 40 40 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	39.0° / 64.0° 87 % 1.8 cd/lm 1 White OSLON Black	25 25 25 25 25 25 25 25 25 25
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	39.0° / 64.0° 87 % 1.8 cd/lm 1 White OSLON Black 27.0° / 51.0°	99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OBSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	39.0° / 64.0° 87 % 1.8 cd/lm 1 White OSLON Black 27.0° / 51.0° 85 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	39.0° / 64.0° 87 % 1.8 cd/lm 1 White OSLON Black 27.0° / 51.0° 85 % 3.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	39.0° / 64.0° 87 % 1.8 cd/lm 1 White OSLON Black 27.0° / 51.0° 85 % 3.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	39.0° / 64.0° 87 % 1.8 cd/lm 1 White OSLON Black 27.0° / 51.0° 85 % 3.1 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	39.0° / 64.0° 87 % 1.8 cd/lm 1 White OSLON Black 27.0° / 51.0° 85 % 3.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	39.0° / 64.0° 87 % 1.8 cd/lm 1 White OSLON Black 27.0° / 51.0° 85 % 3.1 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	39.0° / 64.0° 87 % 1.8 cd/lm 1 White OSLON Black 27.0° / 51.0° 85 % 3.1 cd/lm 1	



### PHOTOMETRIC DATA (SIMULATED):

OSRAM		
Opto Semiconductors	Synios P2720 1/2 mm	30° 30°
FWHM / FWTM	30.0° / 58.0°	75
Efficiency	94 %	
Peak intensity	2.7 cd/lm	60 <sup>-2</sup>
LEDs/each optic	1	
Light colour	White	97° 1530 635
Required components		
		200
		15° 0° 15°
SAMSU	NG	50* 50*
LED	LH351B	
FWHM / FWTM	42.0° / 66.0°	75 75
Efficiency	94 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	g3* G3*
Required components		1230
		1630
		30° 30.
		15% 0% 152
SEOUL SEMICONDUCTOR		50° 90°
LED	Z8Y22P	
FWHM / FWTM	41.0° / 68.0°	75
Efficiency	87 %	- 400
Peak intensity	1.6 cd/lm	60 <sup>c</sup>
LEDs/each optic	1	
Light colour	White	a. at
Required components		1200
		30° 30'
		15° 0° 15°



#### **GENERAL INFORMATION:**

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

#### MATERIALS:

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

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