

## SATU-O

~40° + 20° oval beam optimized for CREE XT-E

### SPECIFICATION:

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

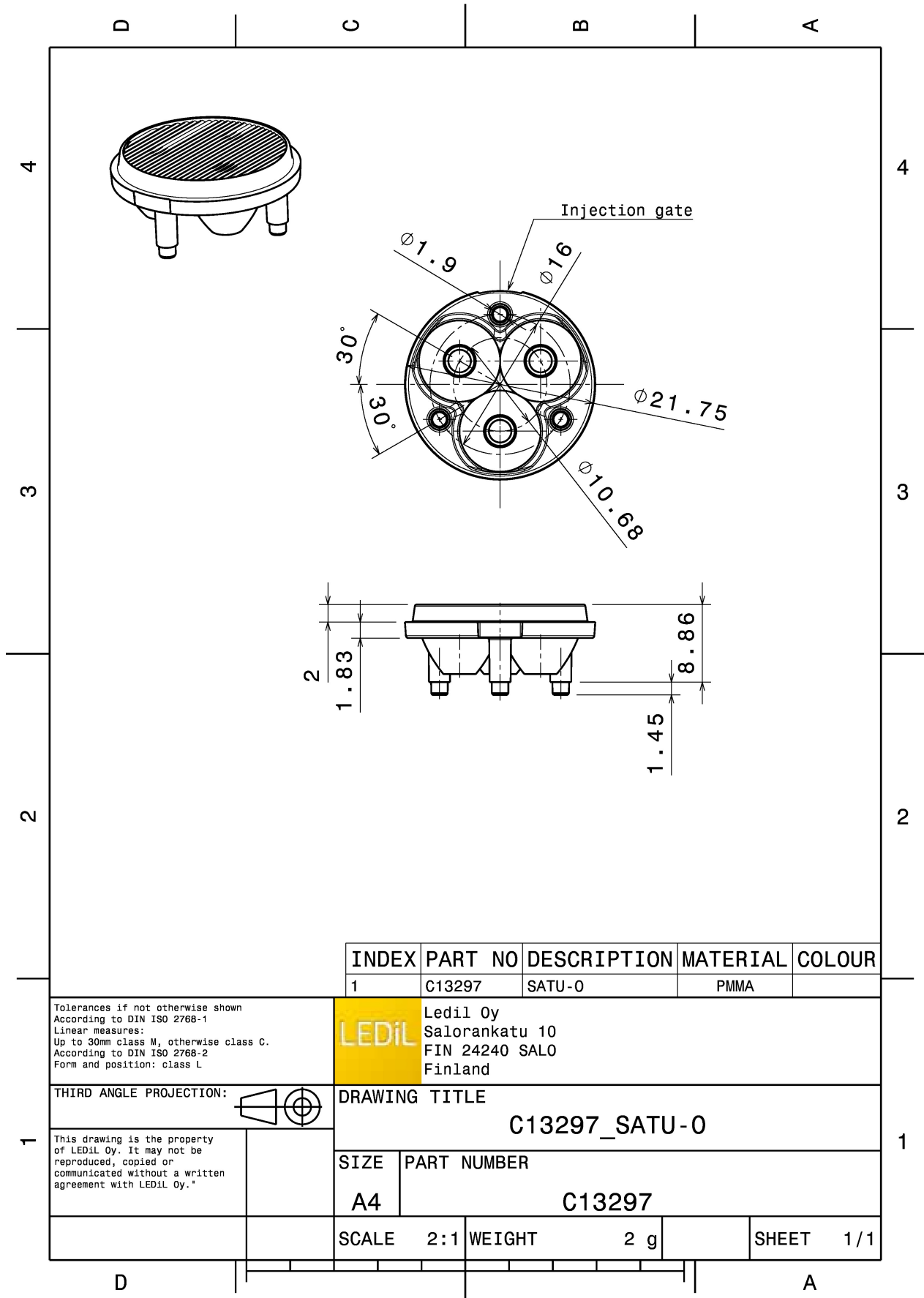
### MATERIALS:

Component	Type	Material	Colour	Finish
SATU-O	Multi-lens	PMMA	clear	



### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C13297_SATU-O » Box size: 480 x 280 x 300 mm	2880	120	120	7.7



See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):

##### CREE → LED

LED XB-D  
 FWHM / FWTM 42.0 + 22.0° / 76.0 + 52.0°  
 Efficiency 77 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



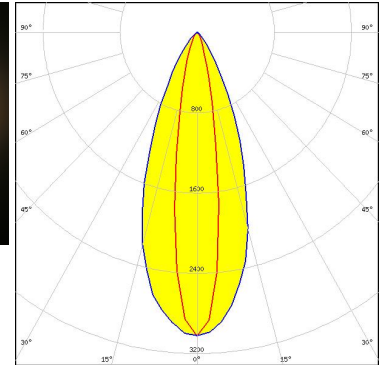
##### CREE → LED

LED XP-E  
 FWHM / FWTM 41.0 + 17.0° / 74.0 + 42.0°  
 Efficiency 83 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



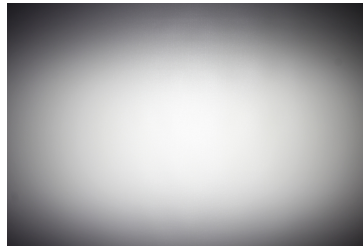
##### CREE → LED

LED XP-E2  
 FWHM / FWTM 40.0 + 17.0° / 71.0 + 39.0°  
 Efficiency 85 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### CREE → LED

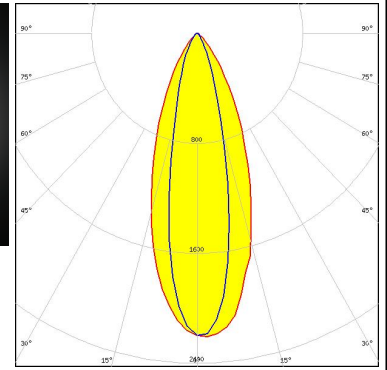
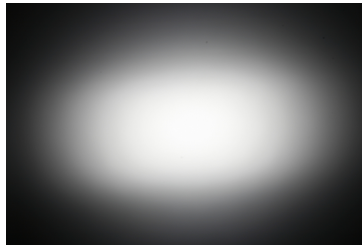
LED XP-G  
 FWHM / FWTM 39.0 + 23.0° / 78.0 + 52.0°  
 Efficiency 79 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



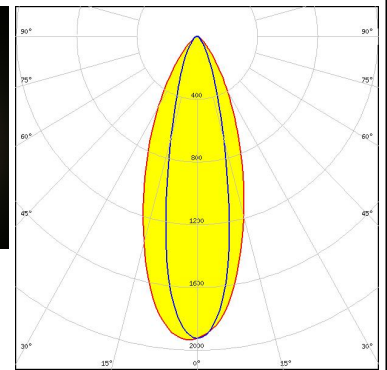
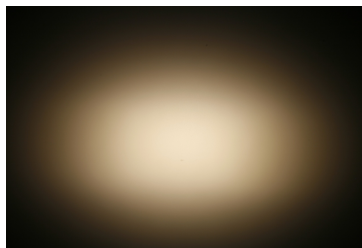
### OPTICAL RESULTS (MEASURED):



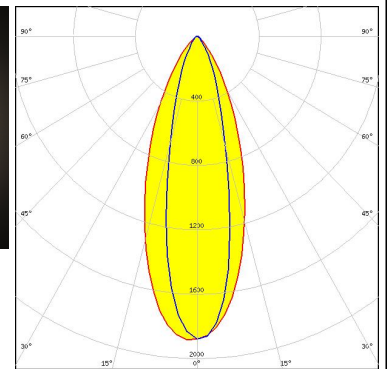
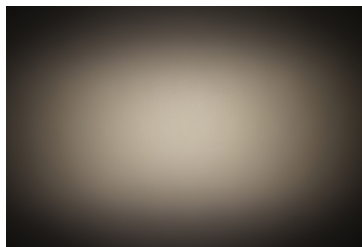
LED XP-G2  
 FWHM / FWTM 39.0 + 24.0° / 76.0 + 52.0°  
 Efficiency 84 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



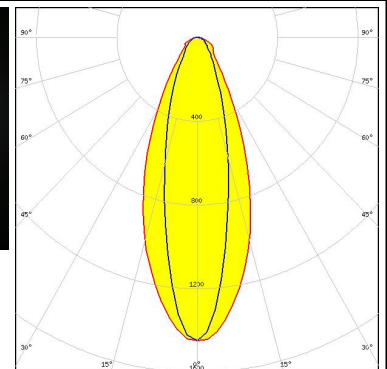
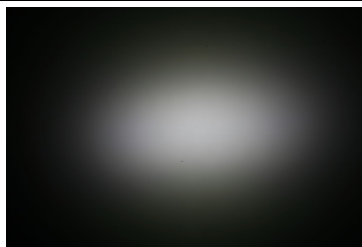
LED LUXEON T  
 FWHM / FWTM 40.0 + 24.0° / 79.0 + 55.0°  
 Efficiency 84 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON TX  
 FWHM / FWTM 40.0 + 25.0° / 76.0 + 56.0°  
 Efficiency 79 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NF2x757A  
 FWHM / FWTM 43.0 + 26.0° / 84.0 + 69.0°  
 Efficiency 81 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

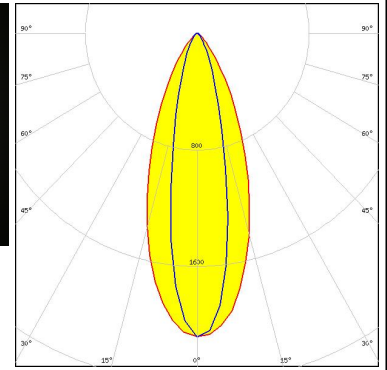


### OPTICAL RESULTS (MEASURED):

#### OSRAM

Opto Semiconductors

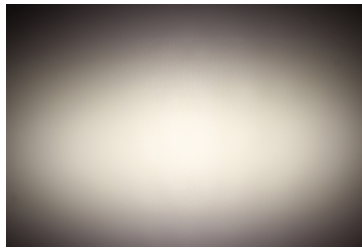
LED OSLOM Square EC  
 FWHM / FWTM 41.0 + 23.0° / 76.0 + 51.0°  
 Efficiency 82 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

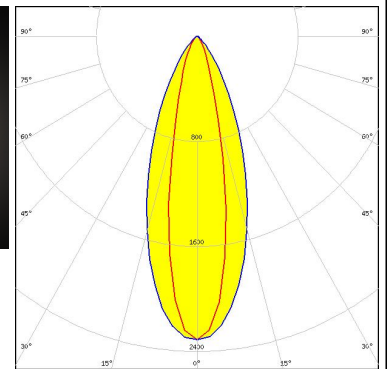
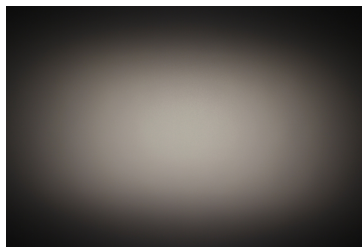
Opto Semiconductors

LED OSLOM SSL 80  
 FWHM / FWTM 41.0 + 18.0° / 74.0 + 46.0°  
 Efficiency 79 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

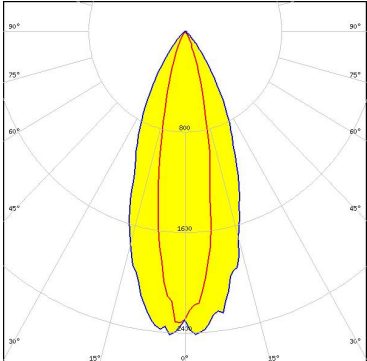
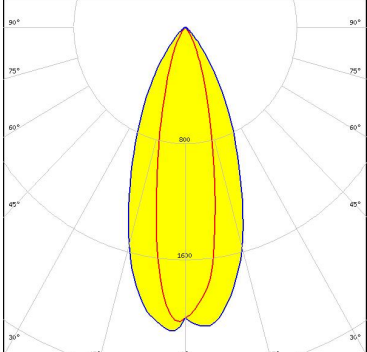
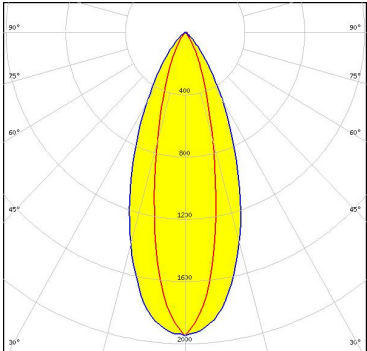
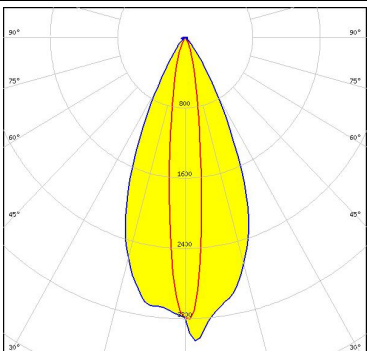


#### SAMSUNG

LED LH351Z  
 FWHM / FWTM 40.0 + 23.0° / 76.0 + 49.0°  
 Efficiency 84 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):

<p><b>CREE</b> LED</p> <p>LED: XT-E            FWHM / FWTM: 20.0 + 40.0°            Efficiency: %            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON H50-2            FWHM / FWTM: 22.0 + 42.0° / 51.0 + 78.0°            Efficiency: 85 %            Peak intensity: 2 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NVSxx19B/NVSxx19C            FWHM / FWTM: 43.0 + 24.0° / 79.0 + 54.0°            Efficiency: 82 %            Peak intensity: 2 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: Synios P2720 1/2 mm            FWHM / FWTM: 25.0 + 12.0° / 69.0 + 34.0°            Efficiency: 91 %            Peak intensity: 3.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

### OPTICAL RESULTS (SIMULATED):





### 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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