

## SATU-S

~19° spot beam optimized for CREE XT-E

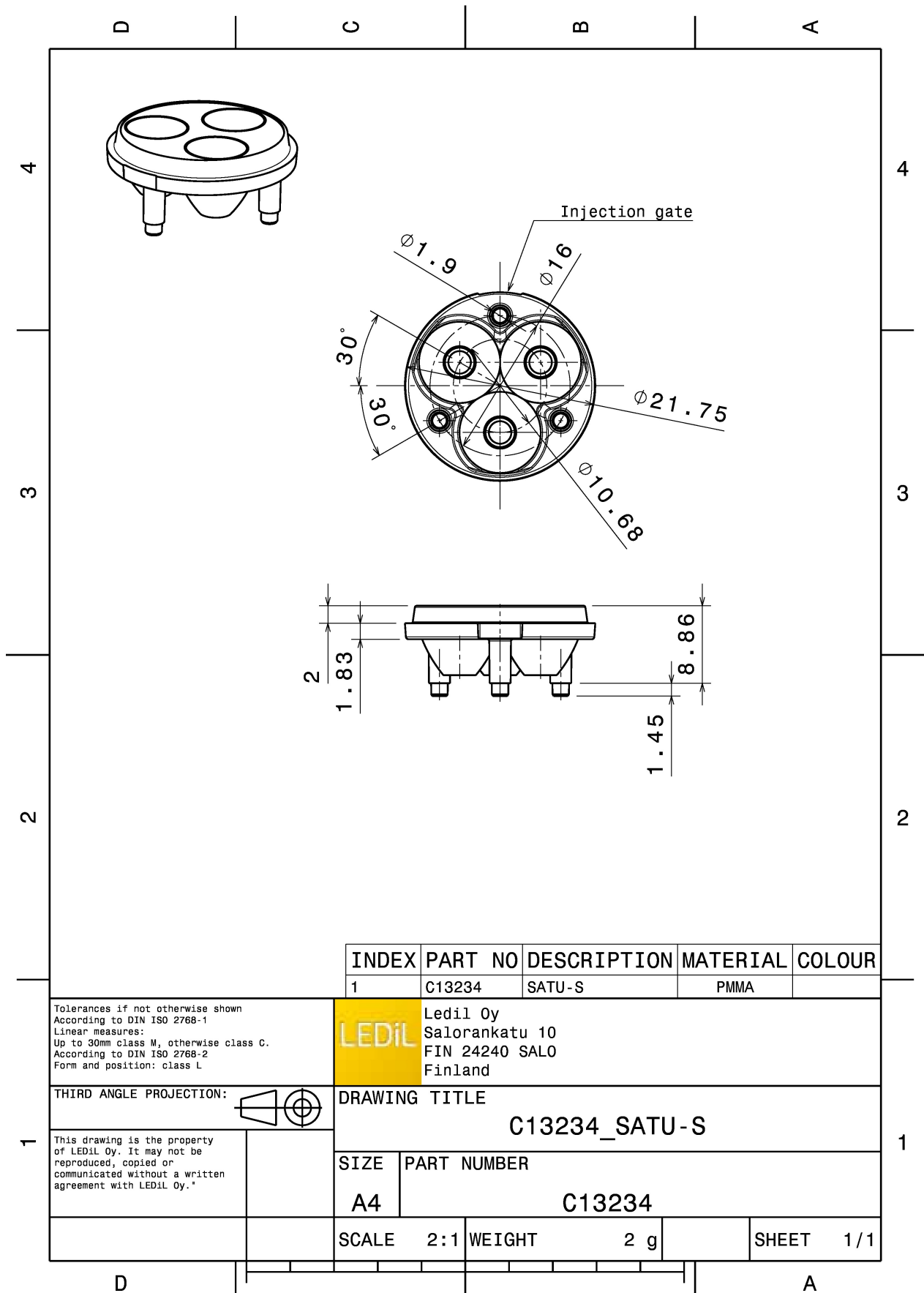
### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 21.8 mm
Height	8.9 mm
Fastening	glue, pin
Colour	clear
Box size	480 x 280 x 300 mm
Box weight	7.7 kg
Quantity in Box	2880 pcs
ROHS compliant	yes ⓘ



### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour
SATU-S	Lens array	PMMA	clear



## PHOTOMETRIC DATA (MEASURED):

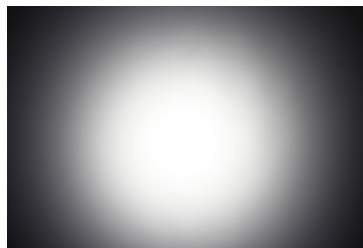
### CREE

LED XB-D  
FWHM 21.0°  
Efficiency 80 %  
Peak intensity 3.500 cd/lm  
Required components:



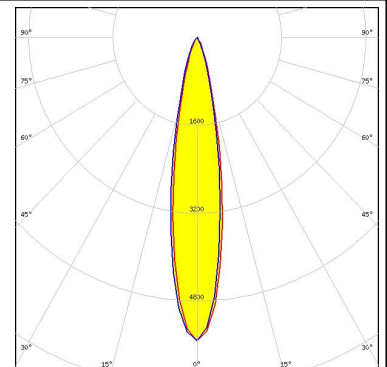
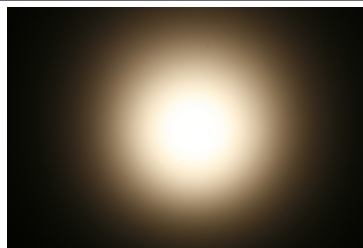
### CREE

LED XP-E  
FWHM 20.0°  
Efficiency 85 %  
Peak intensity 4.600 cd/lm  
Required components:



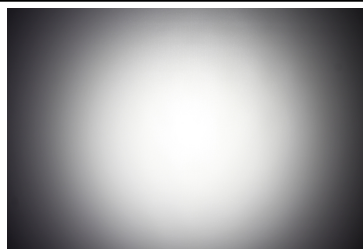
### CREE

LED XP-E2  
FWHM 20.0°  
Efficiency 86 %  
Peak intensity 5.500 cd/lm  
Required components:



### CREE

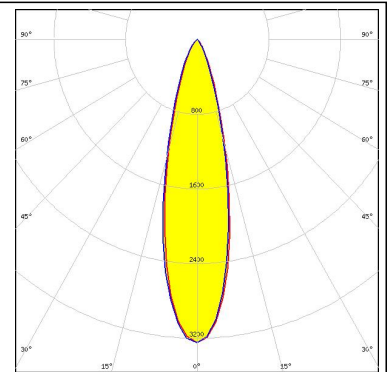
LED XP-G  
FWHM 25.0°  
Efficiency 83 %  
Peak intensity 2.900 cd/lm  
Required components:



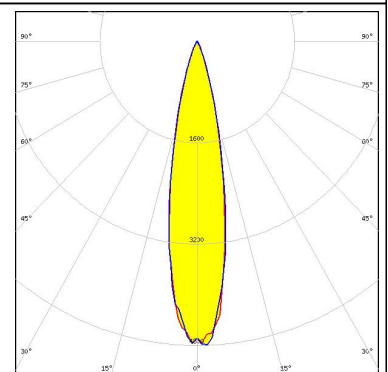
### PHOTOMETRIC DATA (MEASURED):



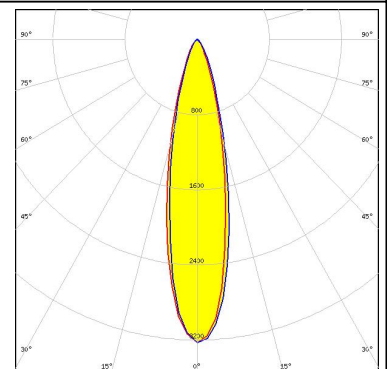
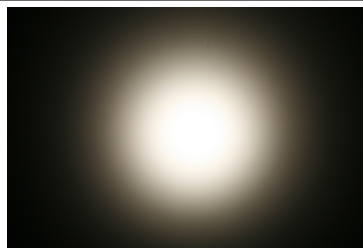
LED XP-G2  
FWHM 26.0°  
Efficiency 85 %  
Peak intensity 3.300 cd/lm  
Required components:



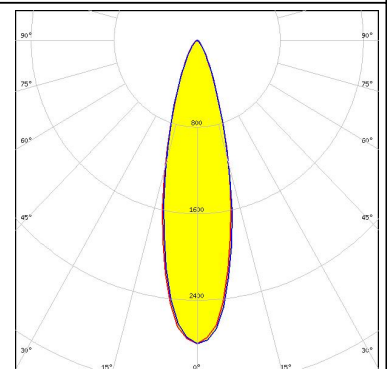
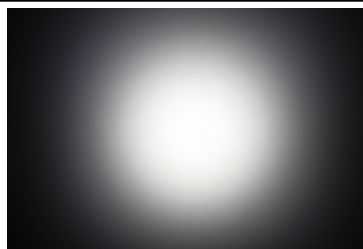
LED XT-E  
FWHM 24.0°  
Efficiency 89 %  
Peak intensity 3.400 cd/lm  
Required components:



LED H35B0 (LEMWA32)  
FWHM 24.0°  
Efficiency 82 %  
Peak intensity 3.200 cd/lm  
Required components:



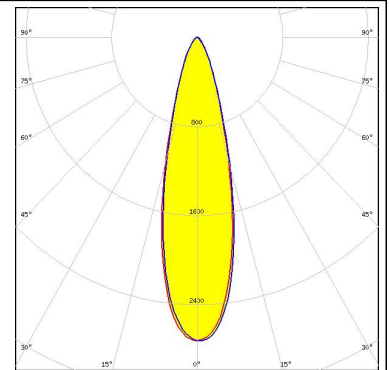
LED H35C0 (LEMWA33)  
FWHM 27.0°  
Efficiency 86 %  
Peak intensity 2.800 cd/lm  
Required components:



#### PHOTOMETRIC DATA (MEASURED):

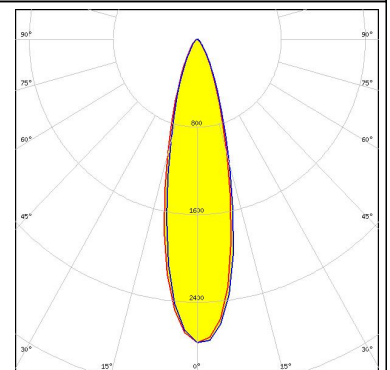
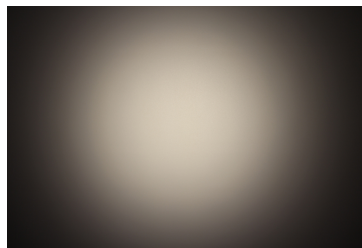
##### LUMILEDS

LED LUXEON T  
 FWHM 27.0°  
 Efficiency 88 %  
 Peak intensity 2.700 cd/lm  
 Required components:



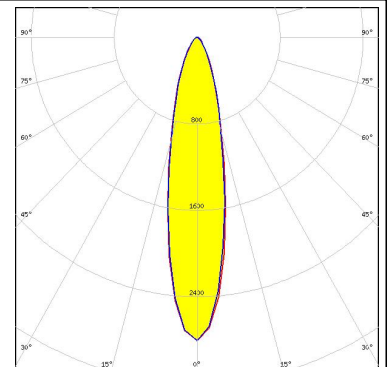
##### LUMILEDS

LED LUXEON TX  
 FWHM 26.0°  
 Efficiency 86 %  
 Peak intensity 2.800 cd/lm  
 Required components:



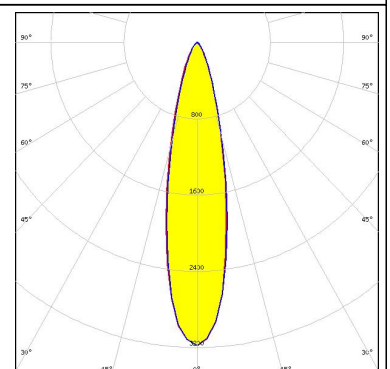
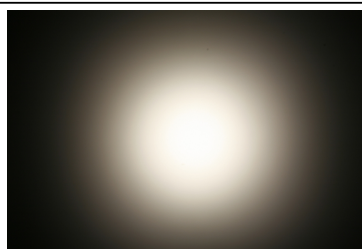
##### NICHIA

LED NF2x757A  
 FWHM 23.0°  
 Efficiency 85 %  
 Peak intensity 2.800 cd/lm  
 Required components:



##### OSRAM Opto Semiconductors

LED Oslon Square EC  
 FWHM 24.0°  
 Efficiency 85 %  
 Peak intensity 3.200 cd/lm  
 Required components:



## PHOTOMETRIC DATA (MEASURED):

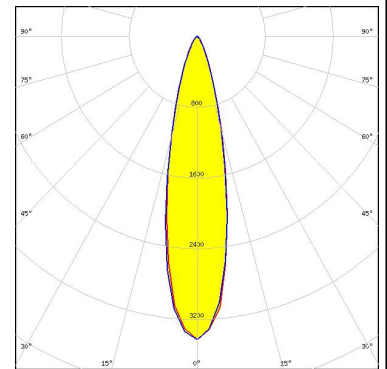
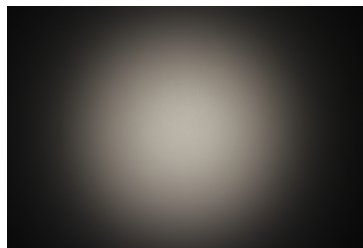
**OSRAM**  
Opto Semiconductors

LED Oslon SSL 80  
FWHM 18.0°  
Efficiency 81 %  
Peak intensity 4.400 cd/lm  
Required components:



**SAMSUNG**

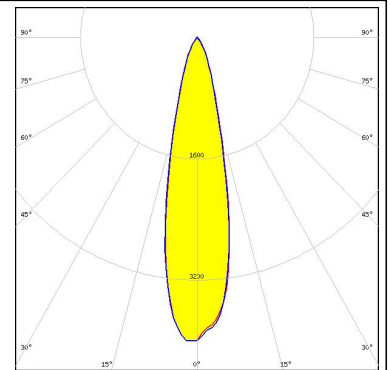
LED LH351Z  
FWHM 24.0°  
Efficiency 87 %  
Peak intensity 3.400 cd/lm  
Required components:



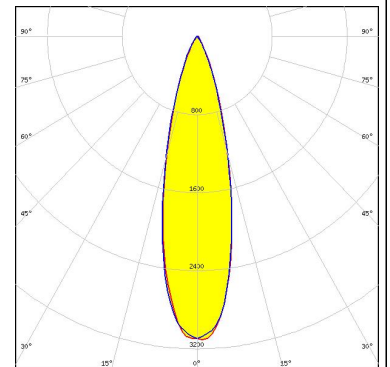
#### PHOTOMETRIC DATA (SIMULATED):



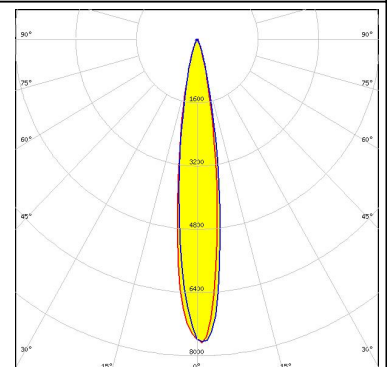
LED LUXEON H50-2  
 FWHM 24.0°  
 Efficiency 90 %  
 Peak intensity 4.000 cd/lm  
 Required components:



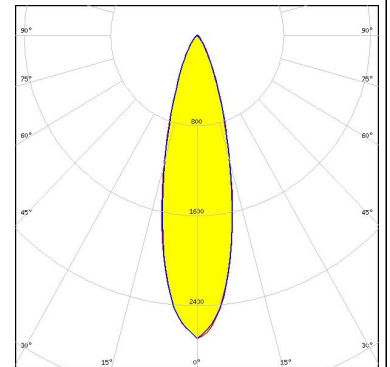
LED NVSxx19B/NVSxx19C  
 FWHM 26.0°  
 Efficiency 87 %  
 Peak intensity 3.130 cd/lm  
 Required components:



LED Synios P2720 1/2 mm  
 FWHM 16.0°  
 Efficiency 94 %  
 Peak intensity 7.890 cd/lm  
 Required components:



LED Z8Y22P  
 FWHM 27.0°  
 Efficiency 87 %  
 Peak intensity 2.690 cd/lm  
 Required components:





### 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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