

## TUIJA-3-SS

~12° smooth spot beam

### SPECIFICATION:

Dimensions	Ø 50.0 mm
Height	14.5 mm
Fastening	glue, pin
ROHS compliant	yes ⓘ

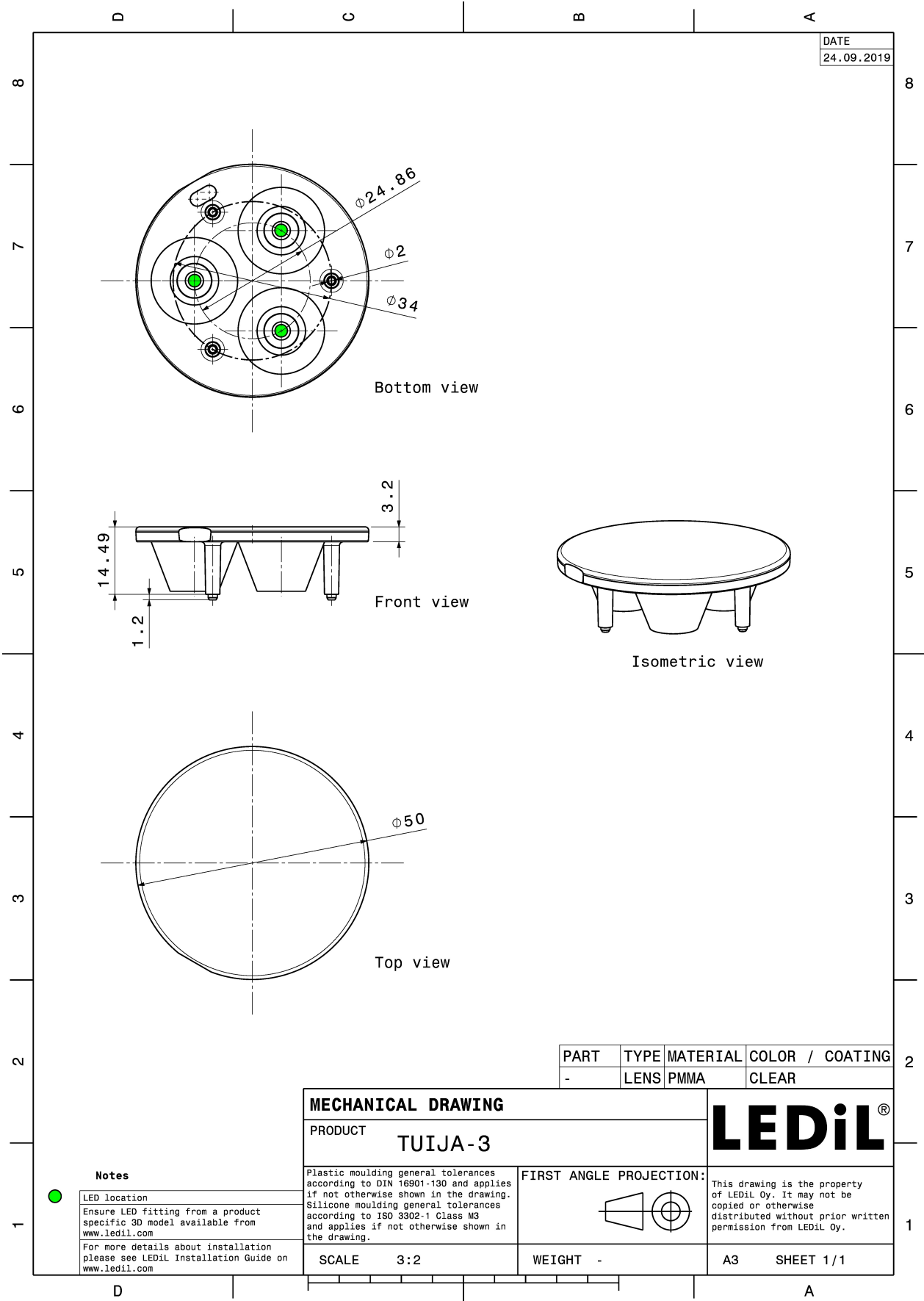


### MATERIALS:

Component	Type	Material	Colour	Finish
TUIJA-3-SS	Multi-lens	PMMA	clear	

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
C11192_TUIJA-3-SS » Box size: 480 x 280 x 300 mm	364	112	28	6.6

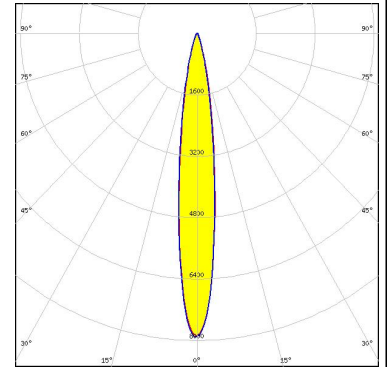


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):

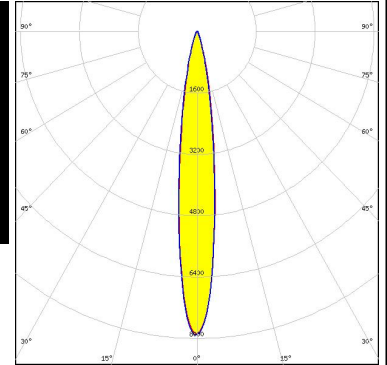
##### CREE → LED

LED XB-D  
 FWHM / FWTM 14.0° / 32.0°  
 Efficiency 94 %  
 Peak intensity 7.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### CREE → LED

LED XB-D  
 FWHM / FWTM 14.0° / 32.0°  
 Efficiency 94 %  
 Peak intensity 7.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### CREE → LED

LED XP-E  
 FWHM / FWTM 12.0° / 25.0°  
 Efficiency 90 %  
 Peak intensity 14.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

##### CREE → LED

LED XP-G  
 FWHM / FWTM 14.0° / 29.0°  
 Efficiency 90 %  
 Peak intensity 9.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):



LED XT-E  
FWHM / FWTM 13.0° / 30.0°  
Efficiency 94 %  
Peak intensity 11 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON A  
FWHM / FWTM 12.0°  
Efficiency 90 %  
LEDs/each optic 1  
Light colour White  
Required components:





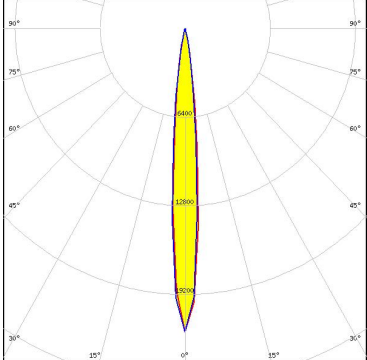


LED LUXEON Rebel  
FWHM / FWTM 12.0° / 22.0°  
Efficiency 90 %  
Peak intensity 16.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON Rebel ES  
FWHM / FWTM 13.0° / 27.0°  
Efficiency 90 %  
Peak intensity 11.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### OPTICAL RESULTS (MEASURED):


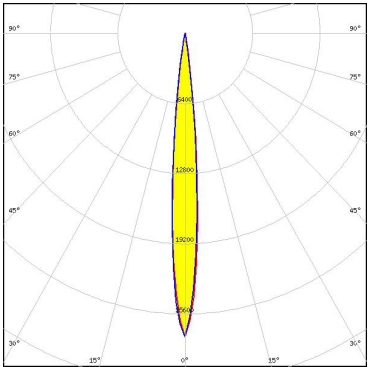

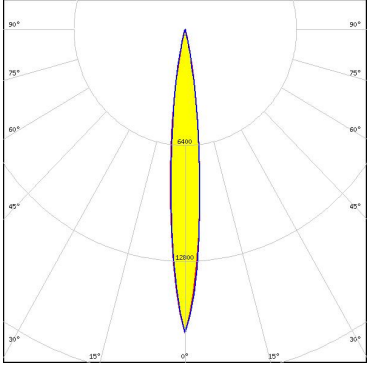

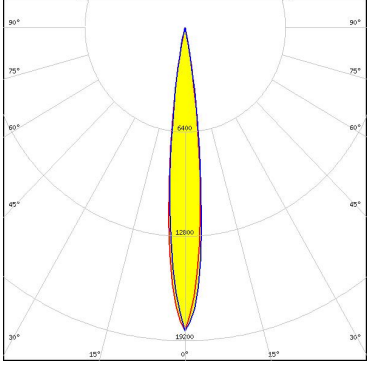

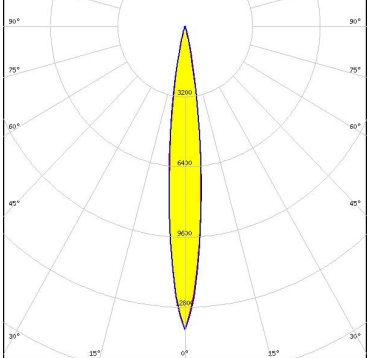
	
LED	NCSxx19A
FWHM / FWTM	12.0°
Efficiency	90 %
LEDs/each optic	1
Light colour	White
Required components:	
	
LED	NVSxx19A
FWHM / FWTM	10.5°
Efficiency	90 %
LEDs/each optic	1
Light colour	White
Required components:	
 <small>Osram Semiconductors</small>	
LED	OSLON SSL 80
FWHM / FWTM	10.0° / 21.0°
Efficiency	90 %
Peak intensity	4.6 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
 <small>SEOUL SEMICONDUCTOR</small>	
LED	Z5
FWHM / FWTM	10.0° / 22.0°
Efficiency	93 %
Peak intensity	22 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	
	

## OPTICAL RESULTS (MEASURED):

### SHARP

LED	Double Dome (GM2BB)
FWHM / FWTM	12.0°
Efficiency	90 %
LEDs/each optic	1
Light colour	White
Required components:	

#### OPTICAL RESULTS (SIMULATED):

	<p>LED: XD16            FWHM / FWTM: 9.5° / 18.0°            Efficiency: 94 %            Peak intensity: 27.8 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
	<p>LED: XP-L HD            FWHM / FWTM: 12.0° / 24.0°            Efficiency: 97 %            Peak intensity: 16.7 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
	<p>LED: XP-L HI            FWHM / FWTM: 12.0° / 22.0°            Efficiency: 97 %            Peak intensity: 18.6 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
	<p>LED: XP-L2            FWHM / FWTM: 12.0° / 26.0°            Efficiency: 97 %            Peak intensity: 13.8 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

#### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON Rebel Plus</p> <p>FWHM / FWTM 10.0° / 21.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 20.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ P 3737 (3W version)</p> <p>FWHM / FWTM 11.0° / 22.0°</p> <p>Efficiency 97 %</p> <p>Peak intensity 19 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSOLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 11.0° / 20.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 23.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSOLON SSL 150</p> <p>FWHM / FWTM 12.0°</p> <p>Efficiency %</p> <p>Peak intensity 17 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

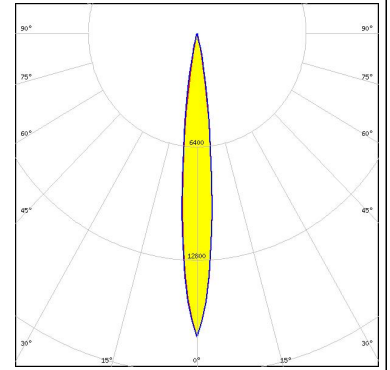


#### OPTICAL RESULTS (SIMULATED):

##### OSRAM

Opto Semiconductors

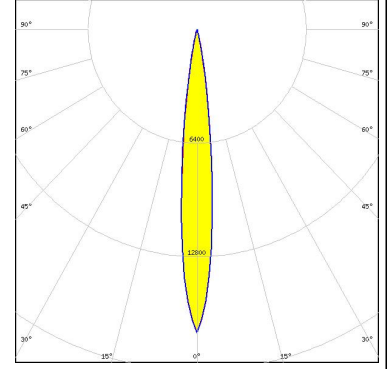
LED SFH 4715AS  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 94 %  
 Peak intensity 17.1 cd/lm  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



##### OSRAM

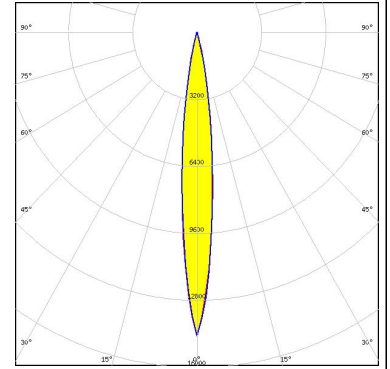
Opto Semiconductors

LED SFH 4716AS  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 94 %  
 Peak intensity 17.1 cd/lm  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



##### SAMSUNG

LED LH351D  
 FWHM / FWTM 12.0° / 26.0°  
 Efficiency 96 %  
 Peak intensity 14.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 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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