

## TINA3-S

~13° spot beam optimized for CREE XP-E.  
Assembly with holder, installation tape and  
location pins.

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.1 mm
Height	11.4 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

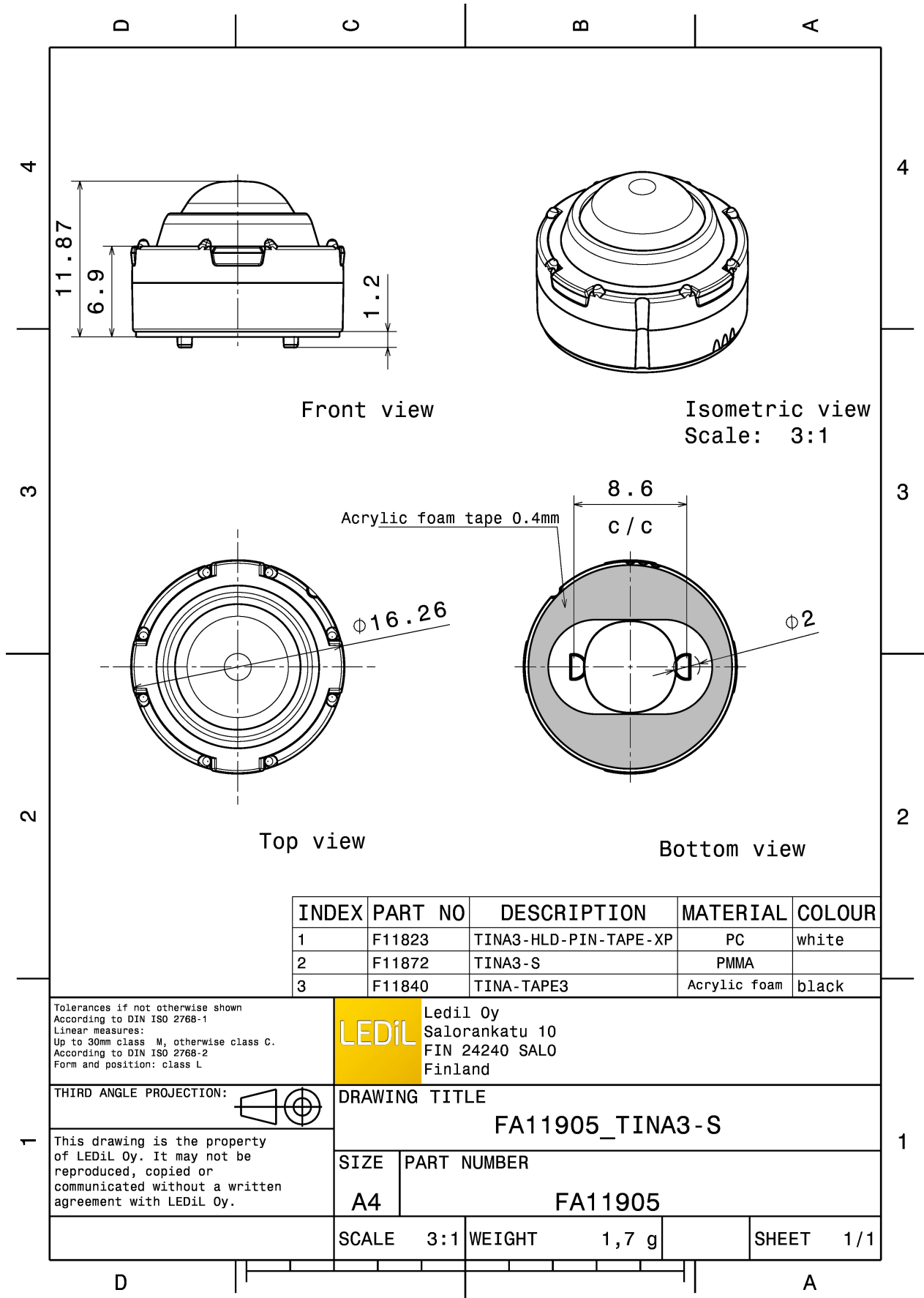


### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
TINA3-S	Single lens	PMMA	clear	
TINA3-HLD-PIN-TAPE-XP	Holder	PC	white	
TINA-TAPE3	Tape	Acrylic foam	black	

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FA11905_TINA3-S » Box size:	2016	288	288	3.7

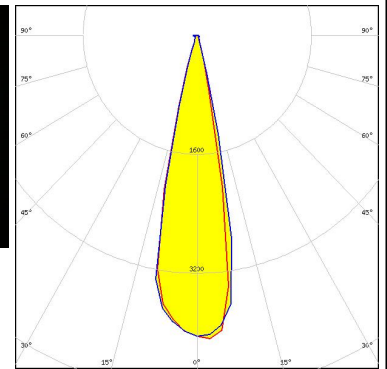


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### PHOTOMETRIC DATA (MEASURED):

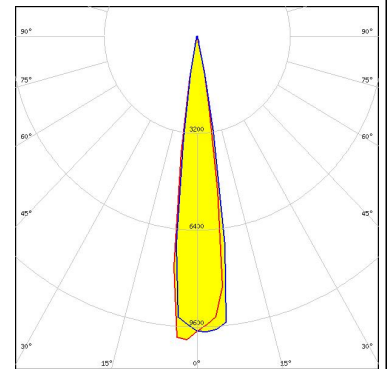
##### CREE → LED

LED XM-L  
 FWHM / FWTM 23.0° / 30.0°  
 Efficiency 86 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



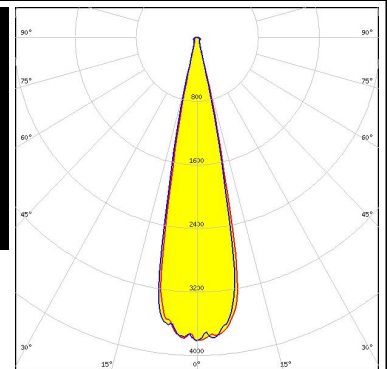
##### CREE → LED

LED XP-E  
 FWHM / FWTM 10.0° / 16.0°  
 Efficiency 86 %  
 Peak intensity 15.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



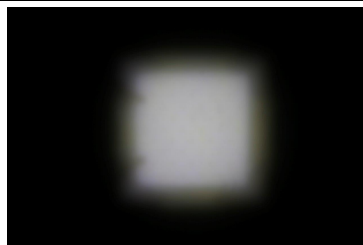
##### CREE → LED

LED XP-G  
 FWHM / FWTM 15.0° / 25.0°  
 Efficiency 86 %  
 Peak intensity 6.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### CREE → LED

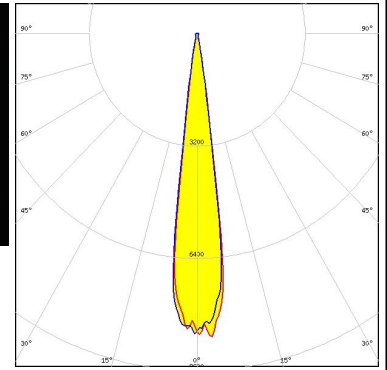
LED XP-L HD  
 FWHM / FWTM 23.0° / 32.0°  
 Efficiency 87 %  
 Peak intensity 3.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### PHOTOMETRIC DATA (MEASURED):



LED XP-L HI  
 FWHM / FWTM 15.0° / 22.0°  
 Efficiency 88 %  
 Peak intensity 8.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON A  
 FWHM / FWTM 16.0° / 23.0°  
 Efficiency 83 %  
 Peak intensity 6.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON Rebel  
 FWHM / FWTM 11.0° / 18.0°  
 Efficiency 83 %  
 Peak intensity 12.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

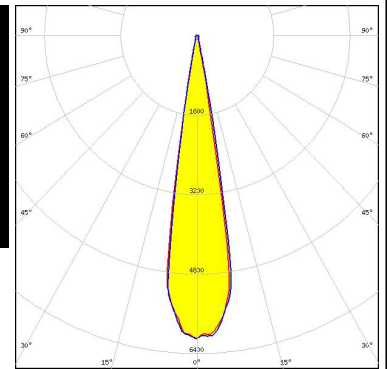


LED LUXEON Rebel ES  
 FWHM / FWTM 18.5° / 22.0°  
 Efficiency 82 %  
 Peak intensity 6.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

#### PHOTOMETRIC DATA (MEASURED):



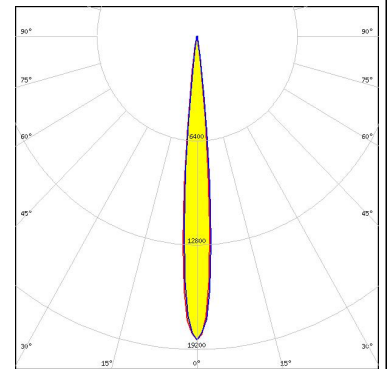
LED NVSW219F  
 FWHM / FWTM 18.0° / 24.0°  
 Efficiency 85 %  
 Peak intensity 6.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NVSxx19A  
 FWHM / FWTM 16.5° / 23.0°  
 Efficiency 87 %  
 Peak intensity 6.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:


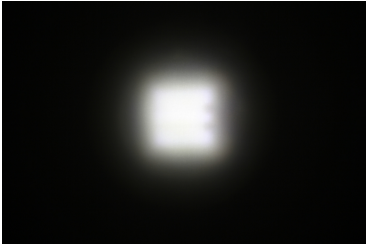


OSRAM Opto Semiconductors  
 LED OSLOM SSL 150  
 FWHM / FWTM 9.0° / 14.0°  
 Efficiency 84 %  
 Peak intensity 18.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



OSRAM Opto Semiconductors  
 LED OSLOM SSL 80  
 FWHM / FWTM 11.0° / 17.0°  
 Efficiency 86 %  
 Peak intensity 14 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

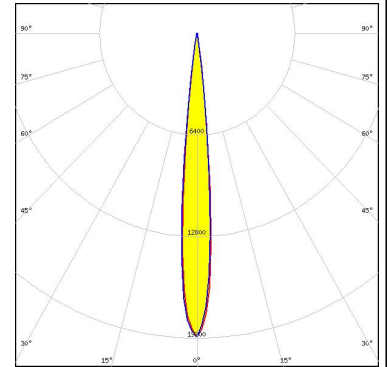
## PHOTOMETRIC DATA (MEASURED):

		
SEOUL SEMICONDUCTOR		
LED	Z5	
FWHM / FWTM	10.0° / 17.0°	
Efficiency	80 %	
Peak intensity	16.4 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		

#### PHOTOMETRIC DATA (SIMULATED):

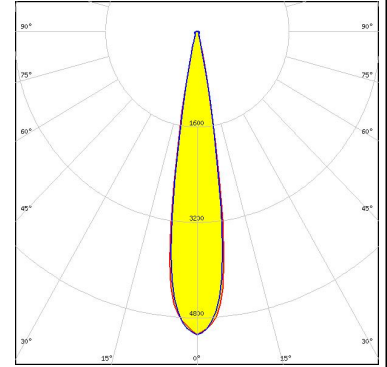
##### CREE LED

LED XP-E2  
 FWHM / FWTM 10.0° / 17.0°  
 Efficiency 92 %  
 Peak intensity 19.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



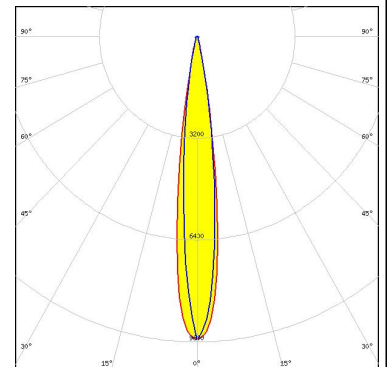
##### CREE LED

LED XP-G3  
 FWHM / FWTM 18.0° / 28.0°  
 Efficiency 78 %  
 Peak intensity 5.1 cd/lm  
 LEDs/each optic 1  
 Light colour Blue  
 Required components:



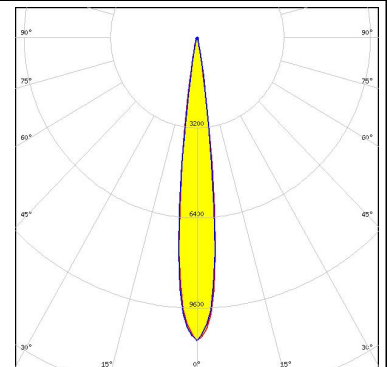
##### LUMILEDS

LED LUXEON 2835 Line  
 FWHM / FWTM 13.0° / 25.0°  
 Efficiency 91 %  
 Peak intensity 9.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

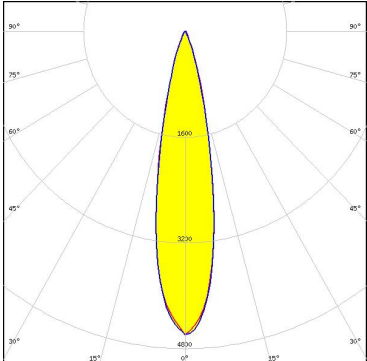
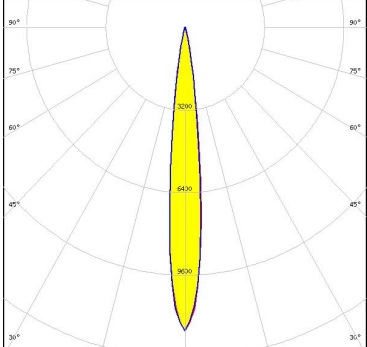
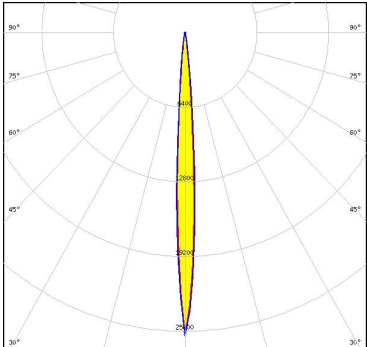



##### LUMINUS

LED SST-20  
 FWHM / FWTM 12.0° / 22.0°  
 Efficiency 86 %  
 Peak intensity 10.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>NICHIA</b></p> <p>LED NV4WB35AM            FWHM / FWTM 22.0° / 41.0°            Efficiency 90 %            Peak intensity 4.6 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLO Black            FWHM / FWTM 12.0° / 23.0°            Efficiency 86 %            Peak intensity 11.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED SFH 4714A            FWHM / FWTM 7.0° / 14.0°            Efficiency 84 %            Peak intensity 26 cd/lm            LEDs/each optic 1            Light colour IR            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED SFH 4715AS            FWHM / FWTM 13.0° / 25.0°            Efficiency 88 %            Peak intensity 10.6 cd/lm            LEDs/each optic 1            Light colour IR            Required components:</p>	

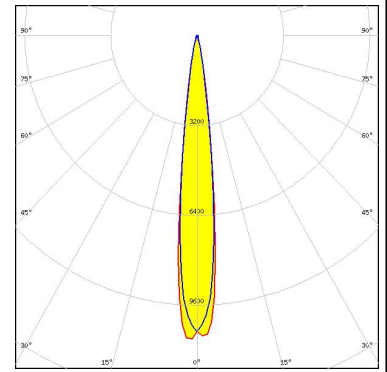


#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

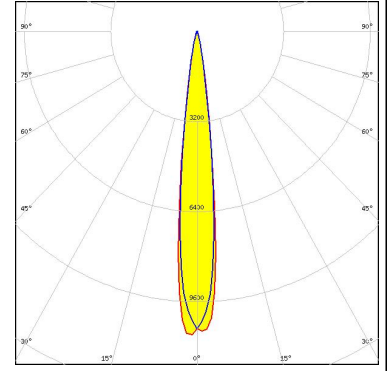
LED SFH 4715S  
 FWHM / FWTM 13.0° / 24.0°  
 Efficiency 87 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



##### OSRAM

Opto Semiconductors

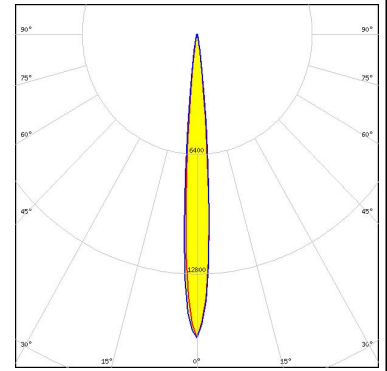
LED SFH 4725S  
 FWHM / FWTM 13.0° / 24.0°  
 Efficiency 87 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



##### OSRAM

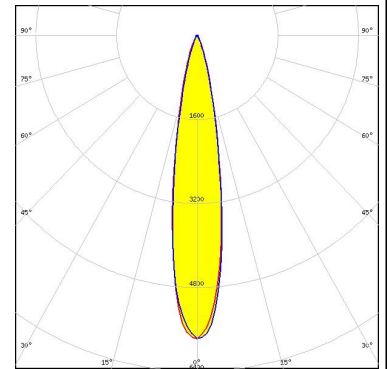
Opto Semiconductors

LED SFH 4726S  
 FWHM / FWTM 9.0° / 17.0°  
 Efficiency 84 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



##### SEOUL SEMICONDUCTOR

LED Z8Y22  
 FWHM / FWTM 15.0° / 29.0°  
 Efficiency 80 %  
 Peak intensity 5.4 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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