

## 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 ⓘ     |

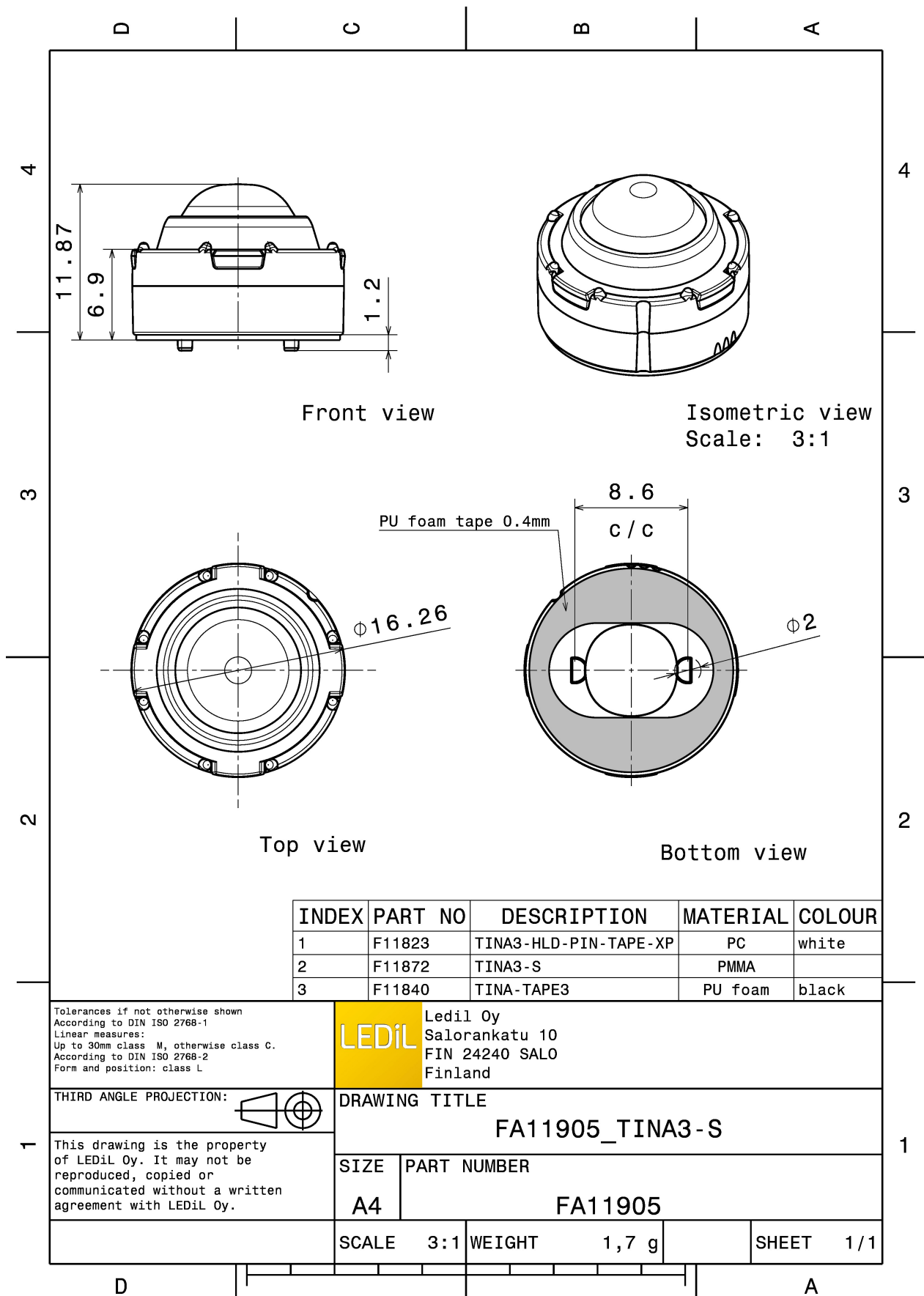
### MATERIAL SPECIFICATIONS:

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

### ORDERING INFORMATION:

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

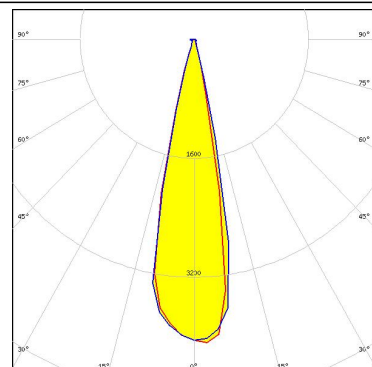




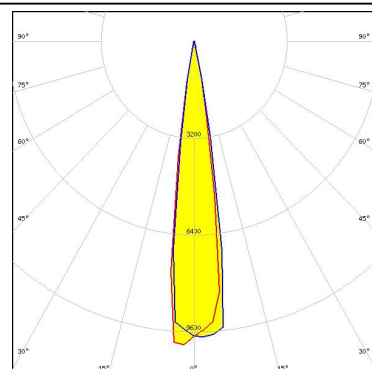
### PHOTOMETRIC DATA (MEASURED):



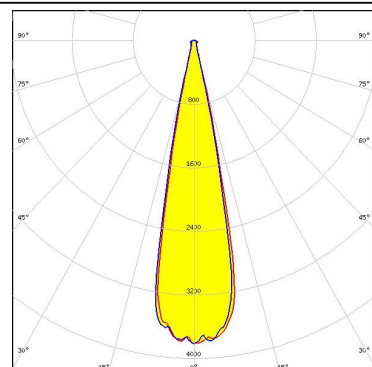
LED XM-L  
FWHM 23.0°  
Efficiency 86 %  
Peak intensity 3.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



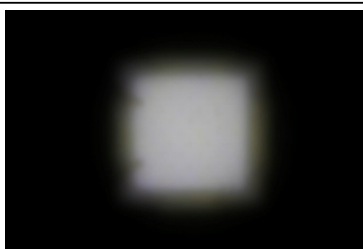
LED XP-E  
FWHM 10.0°  
Efficiency 86 %  
Peak intensity 15.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



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



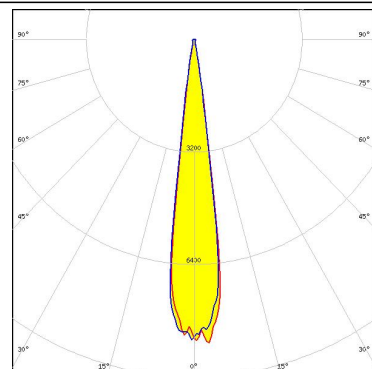
LED XP-L HD  
FWHM 23.0°  
Efficiency 87 %  
Peak intensity 3.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



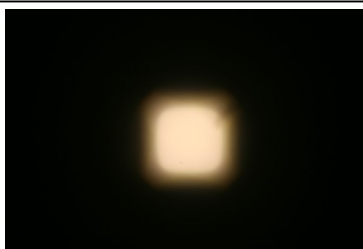
### PHOTOMETRIC DATA (MEASURED):



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



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



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

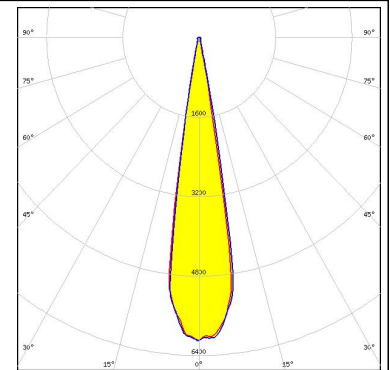
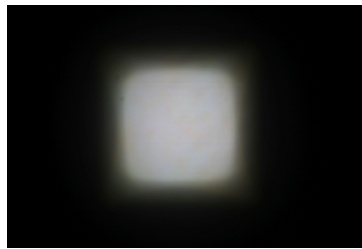


LED LUXEON Rebel ES  
FWHM 18.5°  
Efficiency 82 %  
Peak intensity 6.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

### PHOTOMETRIC DATA (MEASURED):



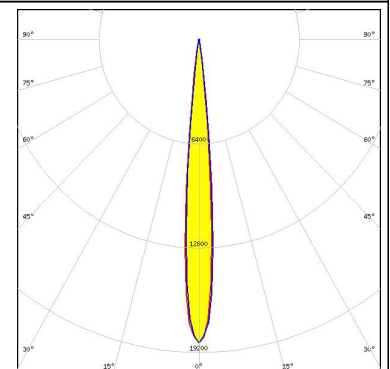
LED NVSW219F  
FWHM 18.0°  
Efficiency 85 %  
Peak intensity 6.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



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



LED OSOLON SSL 150  
FWHM 9.0°  
Efficiency 84 %  
Peak intensity 18.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED OSOLON SSL 80  
FWHM 11.0°  
Efficiency 86 %  
Peak intensity 14 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

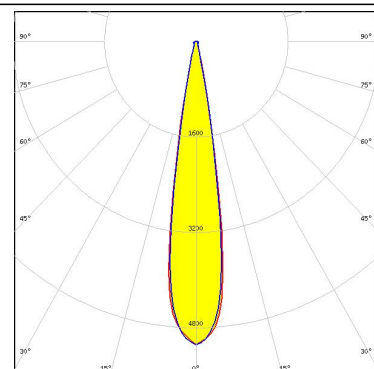
## PHOTOMETRIC DATA (MEASURED):

|  |            |  |
|--|------------|--|
| <br>SEOUL SEMICONDUCTOR |            |  |
| LED  | Z5         |  |
| FWHM   | 10.0°      |  |
| Efficiency   | 80 %       |  |
| Peak intensity   | 16.4 cd/lm |  |
| LEDs/each optic  | 1          |  |
| Light colour   | White      |  |
| Required components:   |            |  |

### PHOTOMETRIC DATA (SIMULATED):



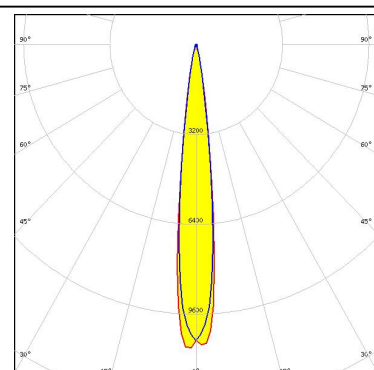
LED XP-G3  
FWHM 18.0°  
Efficiency 78 %  
Peak intensity 5.1 cd/lm  
LEDs/each optic 1  
Light colour Blue  
Required components:



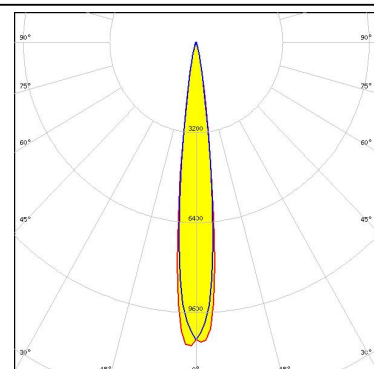
LED SFH 4715AS  
FWHM 13.0°  
Efficiency 88 %  
Peak intensity 10.6 cd/lm  
LEDs/each optic 1  
Light colour IR  
Required components:



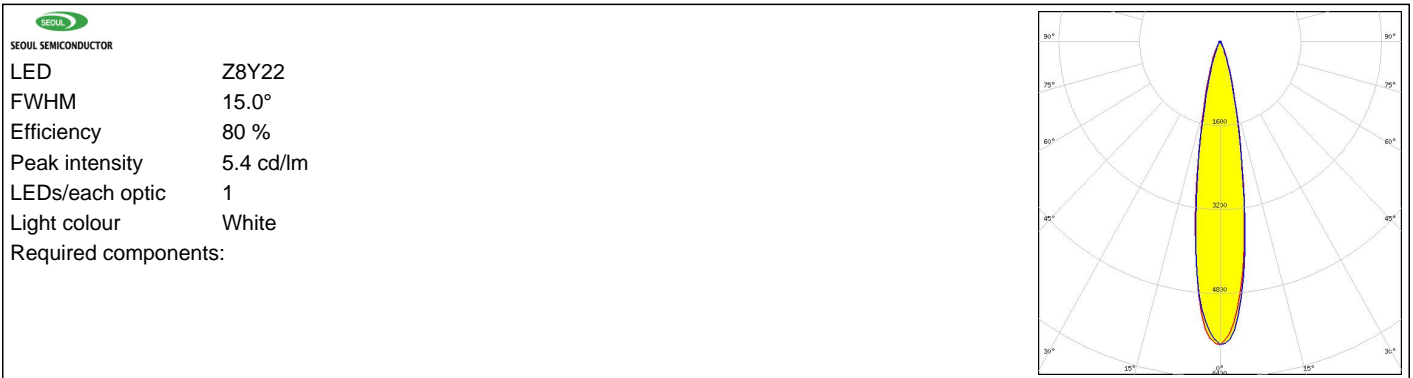
LED SFH 4715S  
FWHM 13.0°  
Efficiency 87 %  
LEDs/each optic 1  
Light colour IR  
Required components:



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



### PHOTOMETRIC DATA (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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#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

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