

## TINA3-WW

~55° wide beam optimized for CREE XP-E.  
Assembly with holder, installation tape and  
location pins.



### SPECIFICATION:

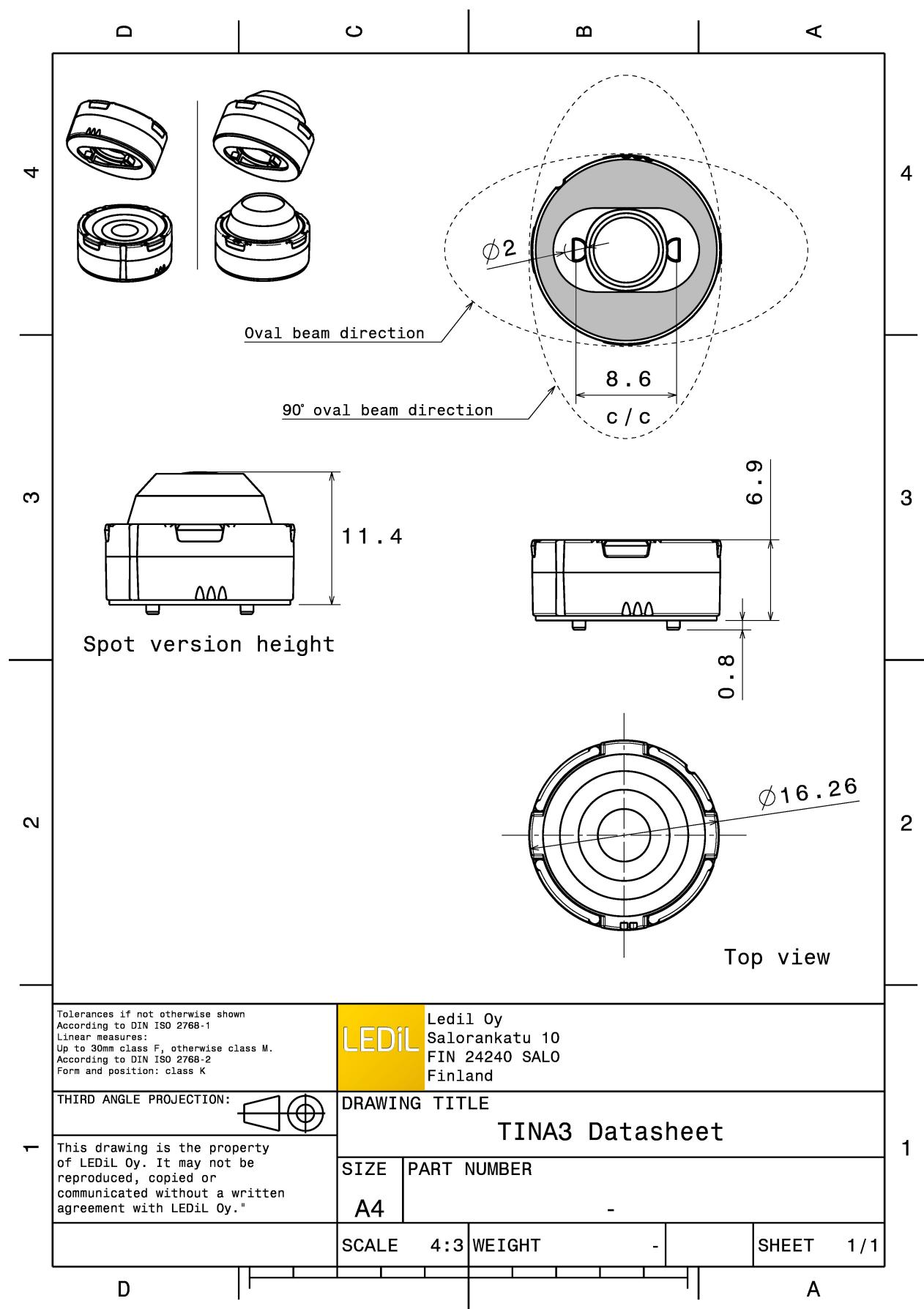
|                |           |
|----------------|-----------|
| Dimensions     | Ø 16.1 mm |
| Height         | 7.1 mm    |
| Fastening      | tape, pin |
| ROHS compliant | yes ⓘ     |

### MATERIALS:

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

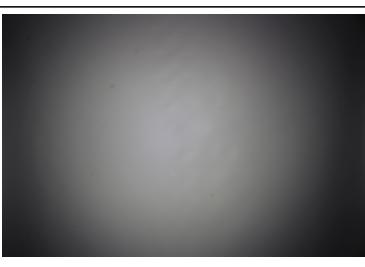
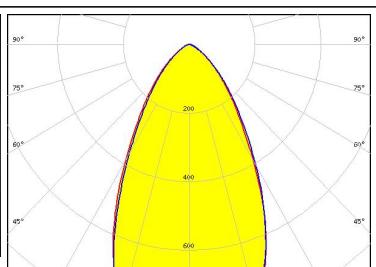
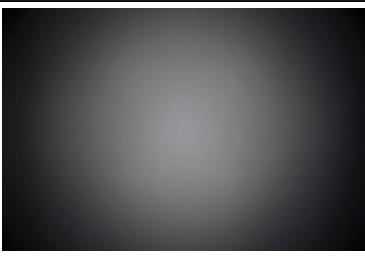
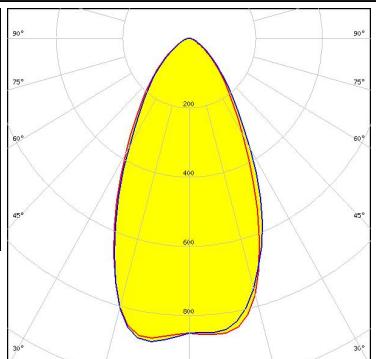
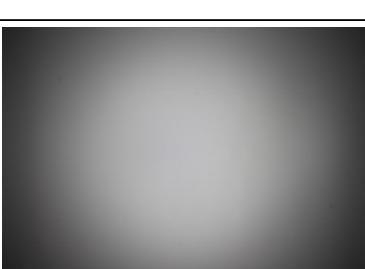
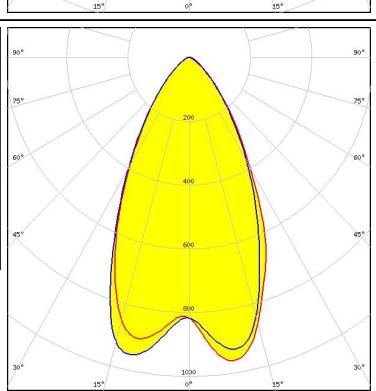
### ORDERING INFORMATION:

| Component  | Qty in box  | MOQ  | MPQ | Box weight (kg) |
|--|-------------|------|-----|-----------------|
| FA11903_TINA3-WW<br>» Box size: 470 x 240 x 105 mm | Single lens | 2016 | 288 | 288             |



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

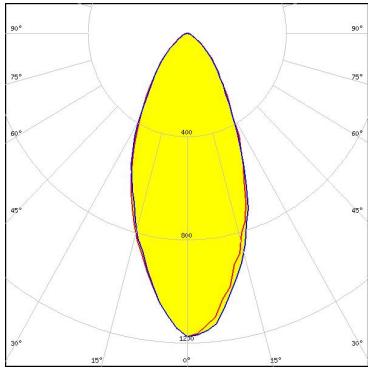
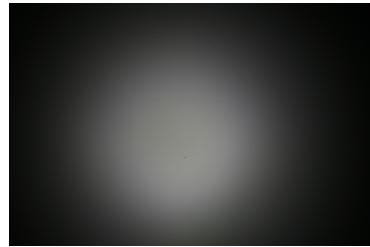
## OPTICAL RESULTS (MEASURED):

|  |  |  |   |
|--|--|--|---|
|    | <p>LED XM-L<br/>FWHM / FWTM 56.0° / 100.0°<br/>Efficiency 91 %<br/>Peak intensity 0.9 cd/lm<br/>LEDs/each optic 1<br/>Light colour White<br/>Required components:</p>    |    |    |
|    | <p>LED XM-L2<br/>FWHM / FWTM 56.0° / 101.0°<br/>Efficiency 89 %<br/>LEDs/each optic 1<br/>Light colour White<br/>Required components:</p>                                |   |   |
|  | <p>LED XP-L HD<br/>FWHM / FWTM 53.0° / 103.0°<br/>Efficiency 91 %<br/>Peak intensity 0.9 cd/lm<br/>LEDs/each optic 1<br/>Light colour White<br/>Required components:</p> |  |  |
|  | <p>LED XP-L HI<br/>FWHM / FWTM 54.0° / 94.0°<br/>Efficiency 91 %<br/>Peak intensity 1 cd/lm<br/>LEDs/each optic 1<br/>Light colour White<br/>Required components:</p>    |  |  |

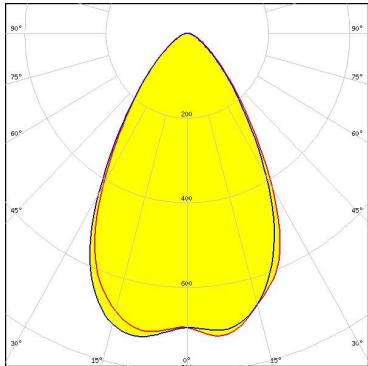
## OPTICAL RESULTS (MEASURED):



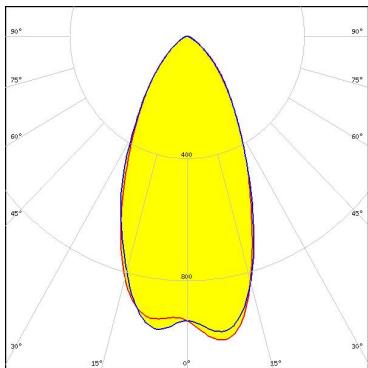
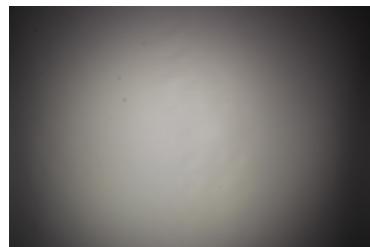
LED XT-E  
FWHM / FWTM 46.0° / 96.0°  
Efficiency 92 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NS9x383  
FWHM / FWTM 65.0° / 108.0°  
Efficiency 90 %  
Peak intensity 0.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NVSW219F  
FWHM / FWTM 51.0° / 98.0°  
Efficiency 92 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

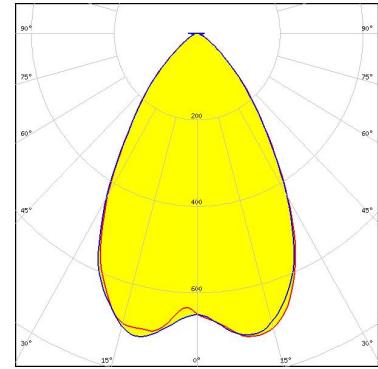


## OPTICAL RESULTS (SIMULATED):



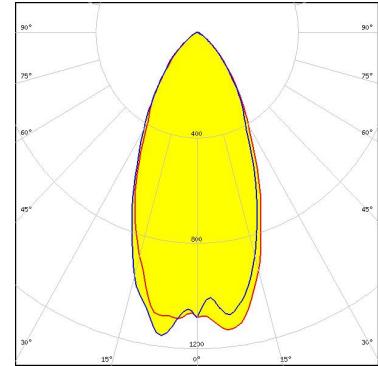
|                 |                |
|-----------------|----------------|
| LED             | XD16           |
| FWHM / FWTM     | 61.0° / 101.0° |
| Efficiency      | 91 %           |
| Peak intensity  | 0.8 cd/lm      |
| LEDs/each optic | 4              |
| Light colour    | White          |

Required components:



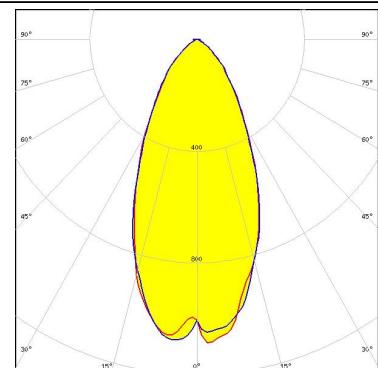
|                 |          |
|-----------------|----------|
| LED             | XM-L HVW |
| FWHM / FWTM     | 62.0°    |
| Efficiency      | %        |
| LEDs/each optic | 1        |
| Light colour    | White    |

Required components:



|                 |               |
|-----------------|---------------|
| LED             | XP-G2         |
| FWHM / FWTM     | 49.0° / 95.0° |
| Efficiency      | 95 %          |
| Peak intensity  | 1.2 cd/lm     |
| LEDs/each optic | 1             |
| Light colour    | White         |

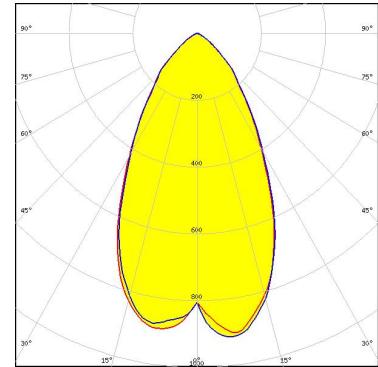
Required components:



## OPTICAL RESULTS (SIMULATED):

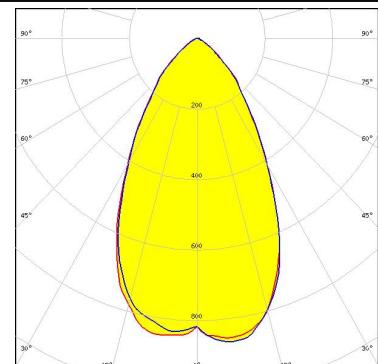
### LUMILEDS

LED LUXEON HL2X  
FWHM / FWTM 57.0° / 102.0°  
Efficiency 94 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### SAMSUNG

LED LH351B  
FWHM / FWTM 59.0° / 102.0°  
Efficiency 94 %  
Peak intensity 0.9 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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