

## TINA-M

~30° medium beam optimized for LUXEON Rebel. Assembly with holder, installation tape and location pins.

### SPECIFICATION:

|                |           |
|----------------|-----------|
| Dimensions     | Ø 16.1 mm |
| Height         | 9.4 mm    |
| Fastening      | tape, pin |
| ROHS compliant | yes ⓘ     |

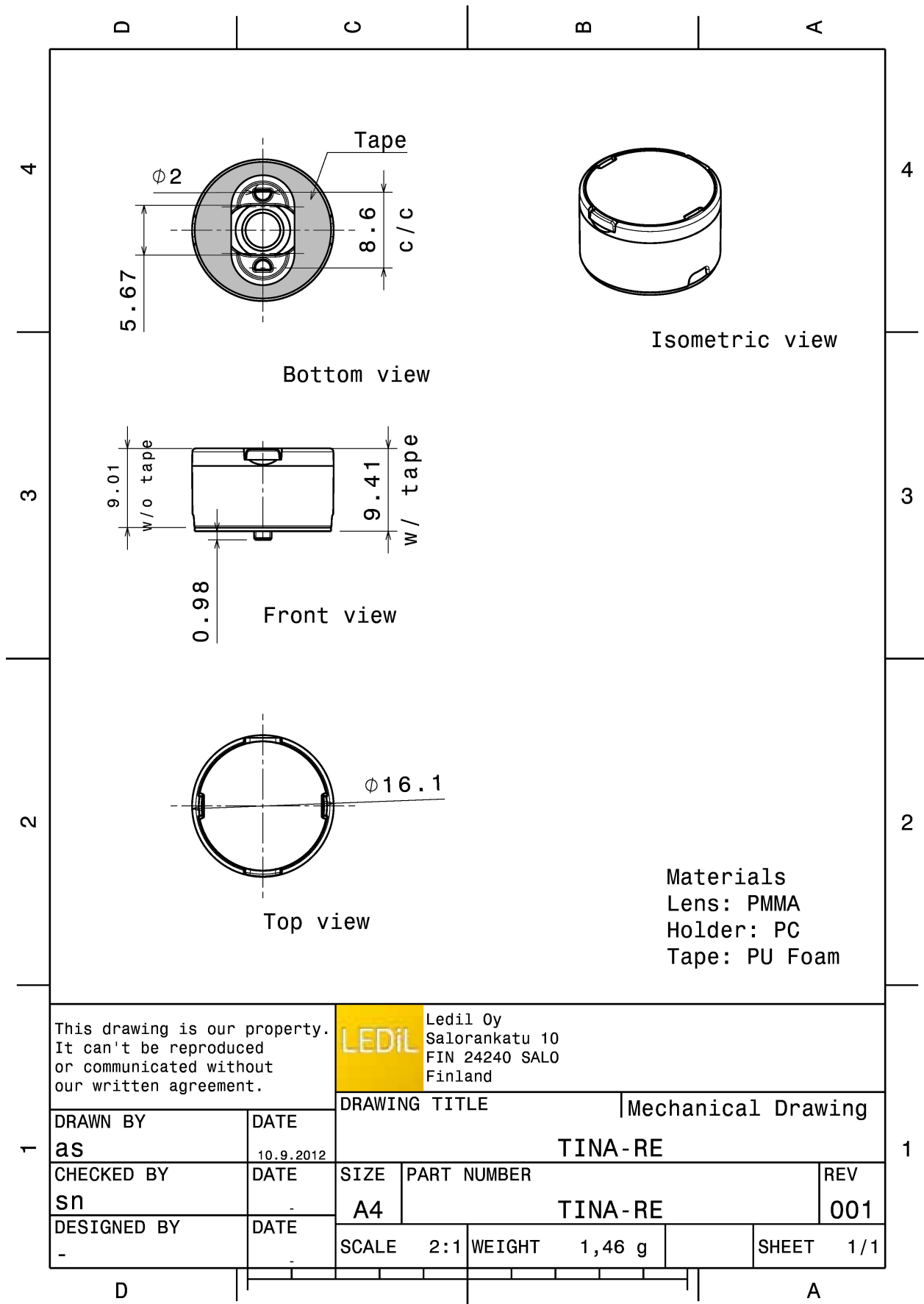


### MATERIALS:

| Component          | Type        | Material     | Colour | Finish |
|--------------------|-------------|--------------|--------|--------|
| TINA-M             | Single lens | PMMA         | clear  |        |
| TINA-H-TAPE-RE-BLK | Holder      | PC           | black  |        |
| TINA-TAPE3         | Tape        | Acrylic foam | black  |        |

### ORDERING INFORMATION:

| Component      |             | Qty in box | MOQ | MPQ | Box weight (kg) |
|----------------|-------------|------------|-----|-----|-----------------|
| FA11210_TINA-M | Single lens | 2016       | 288 | 144 | 4.1             |
| » Box size:    |             |            |     |     |                 |

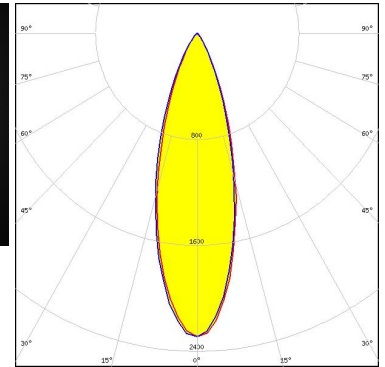


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):



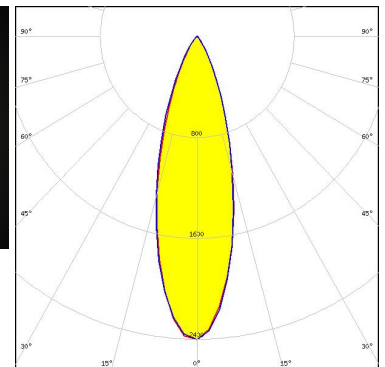
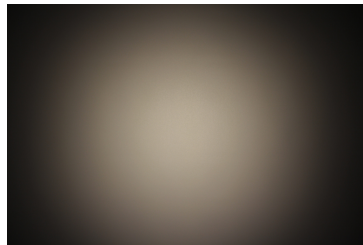
LED XB-H  
FWHM / FWTM 30.0° / 58.0°  
Efficiency 81 %  
Peak intensity 2.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



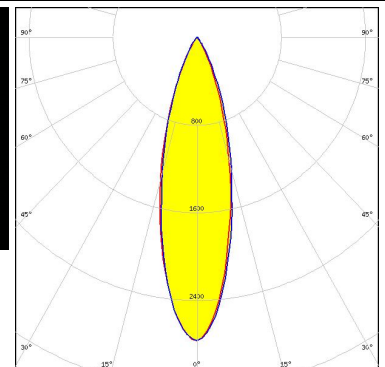
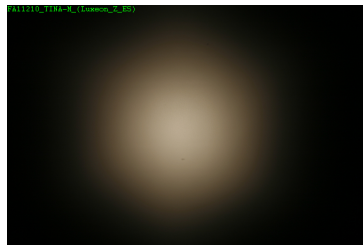
LED LUXEON Rebel  
FWHM / FWTM 28.0° / 54.0°  
Efficiency 83 %  
Peak intensity 1.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON TX  
FWHM / FWTM 31.0° / 59.0°  
Efficiency 82 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



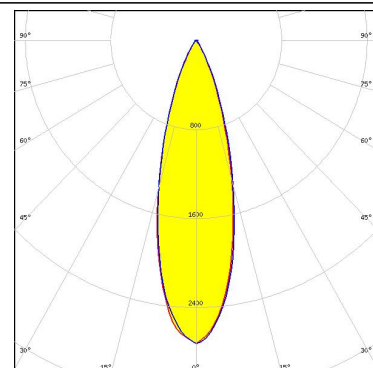
LED LUXEON Z ES  
FWHM / FWTM 29.0° / 56.0°  
Efficiency 84 %  
Peak intensity 2.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



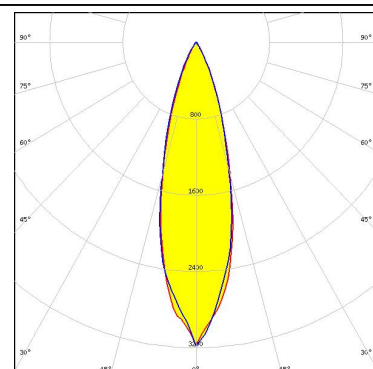
### OPTICAL RESULTS (SIMULATED):



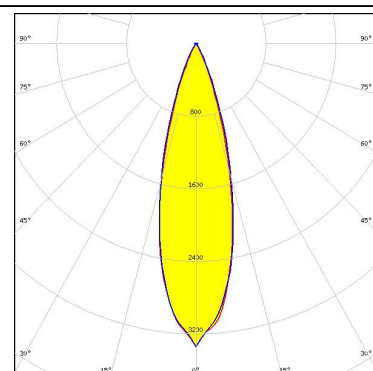
LED XB-D  
FWHM / FWTM 30.0° / 56.0°  
Efficiency 87 %  
Peak intensity 2.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



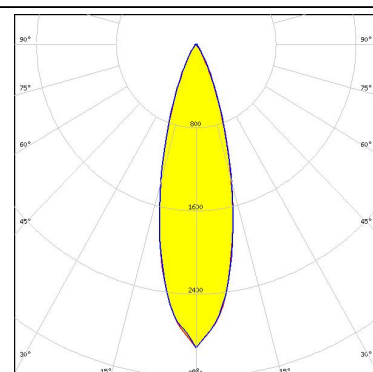
LED LUXEON H50-2  
FWHM / FWTM 28.0° / 53.0°  
Efficiency 90 %  
Peak intensity 3.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON HL1Z  
FWHM / FWTM 28.0° / 48.0 + 51.0°  
Efficiency 90 %  
Peak intensity 3.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



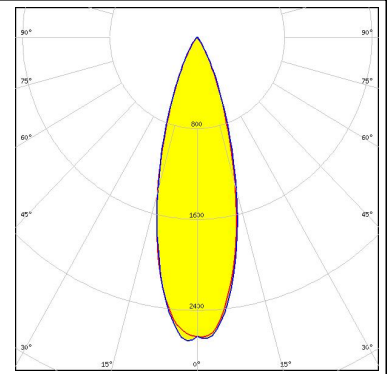
LED LUXEON HL2Z  
FWHM / FWTM 28.0° / 54.0°  
Efficiency 89 %  
Peak intensity 2.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### OPTICAL RESULTS (SIMULATED):



|                      |               |
|----------------------|---------------|
| LED                  | LUXEON T      |
| FWHM / FWTM          | 30.0° / 55.0° |
| Efficiency           | 90 %          |
| Peak intensity       | 2.7 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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