

## TINA-M

~30° medium beam optimized for Osram Golden Dragon+. Assembly with holder and installation tape.

## SPECIFICATION:

|                |         |
|----------------|---------|
| Dimensions     | Ø 16.1  |
| Height         | 10.1 mm |
| Fastening      | tape    |
| ROHS compliant | yes ⓘ   |

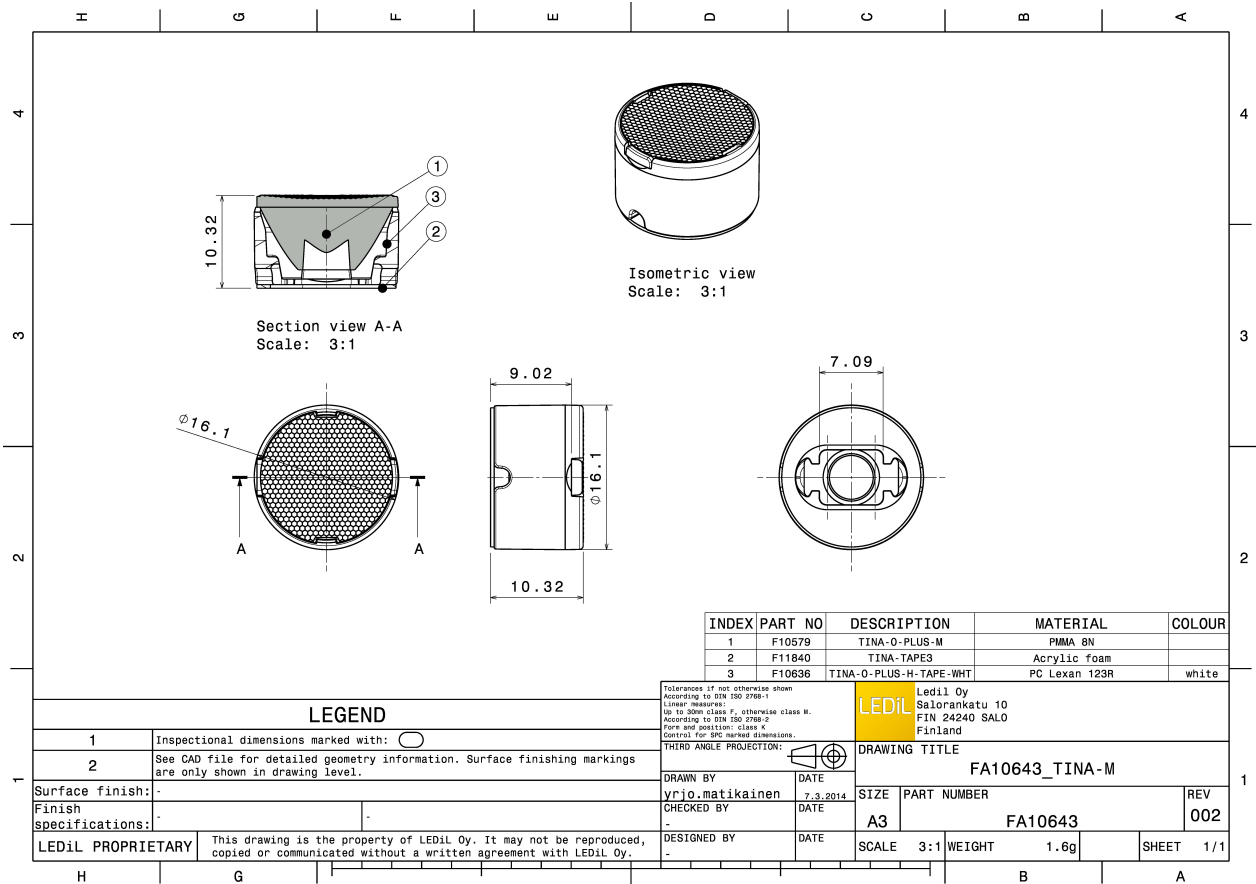


## MATERIALS:

| Component              | Type        | Material   | Colour | Finish | Length (mm) |
|------------------------|-------------|------------|--------|--------|-------------|
| TINA-O-PLUS-H-TAPE-WHT | Holder      | PC         | white  |        |             |
| TINA-O-PLUS-M          | Single lens | PMMA       | clear  |        |             |
| TINA-TAPE3             | Tape        | Acryl tape | black  |        |             |

## ORDERING INFORMATION:

| Component      | Qty in box | MOQ | MPQ | Box weight (kg) |
|----------------|------------|-----|-----|-----------------|
| FA10643_TINA-M | 2016       | 288 | 144 | 4.0             |
| » Box size:    |            |     |     |                 |



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

## OPTICAL RESULTS (MEASURED):

**OSRAM**

Opto Semiconductors

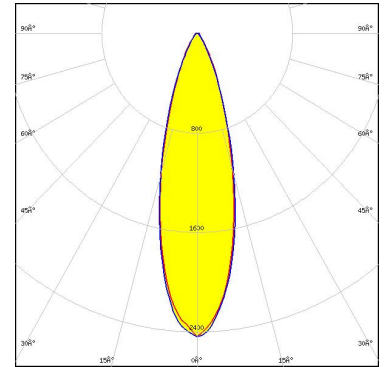
|                      |                |
|----------------------|----------------|
| LED                  | Golden Dragon+ |
| FWHM / FWTM          | 30.0° / 58.0°  |
| Efficiency           | 92 %           |
| Peak intensity       | 3.2 cd/lm      |
| LEDs/each optic      | 1              |
| Light colour/type    | White          |
| Required components: |                |

Light distribution files

### OPTICAL RESULTS (SIMULATED):



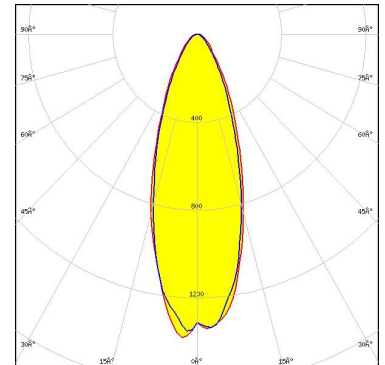
LED XP-L HI  
FWHM / FWTM 29.0° / 58.0°  
Efficiency 88 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



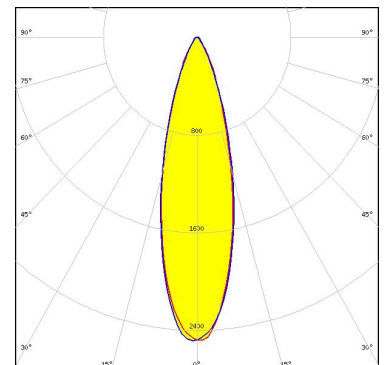
LED LUXEON 5050 Square LES  
FWHM / FWTM 35.0° / 76.0°  
Efficiency 82 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED NVSW219C-V2  
FWHM / FWTM 28.0° / 58.0°  
Efficiency 86 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

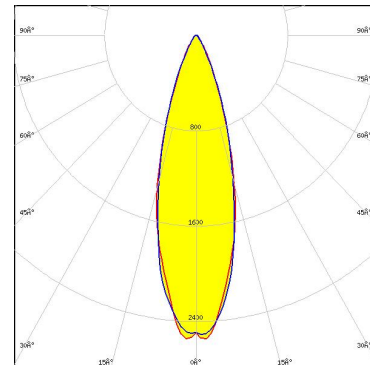


Light distribution files

### OPTICAL RESULTS (SIMULATED):



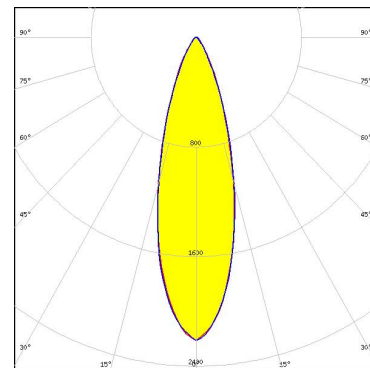
LED NVSW219F-V2  
FWHM / FWTM 30.0° / 56.0°  
Efficiency 89 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



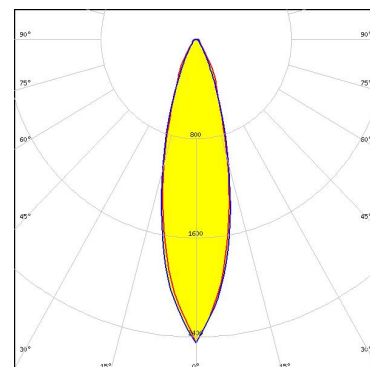
LED NVSW519A  
FWHM / FWTM 30.0° / 60.0°  
Efficiency 84 %  
Peak intensity 2.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED OSLOM Black Flat S (KW HHL533.TK)  
FWHM / FWTM 27.0° / 58.0°  
Efficiency 84 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

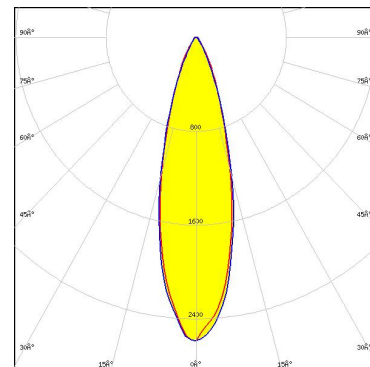


Light distribution files

### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

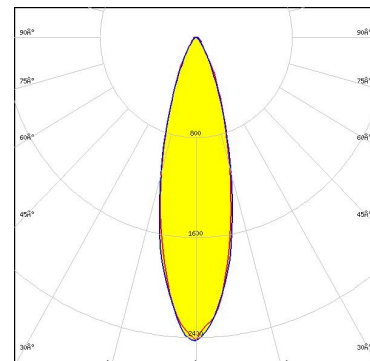
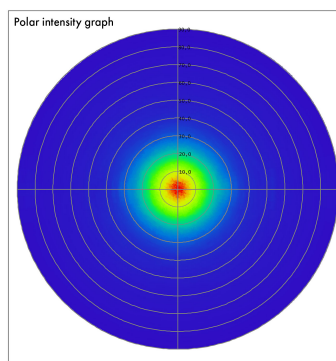
LED OSLON Boost HX (KW CULPM1.TG)  
FWHM / FWTM 28.0° / 57.0°  
Efficiency 87 %  
Peak intensity 2.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED SFH 4715AS  
FWHM / FWTM 28.0° / 58.0°  
Efficiency 87 %  
LEDs/each optic 1  
Light colour/type IR  
Required components:



Light distribution files

### 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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