

## TINA2-RS

~14° spot beam. Assembly with holder and installation tape.

## SPECIFICATION:

Dimensions	Ø 16.1 mm
Height	9.7 mm
Fastening	tape
ROHS compliant	yes ⓘ

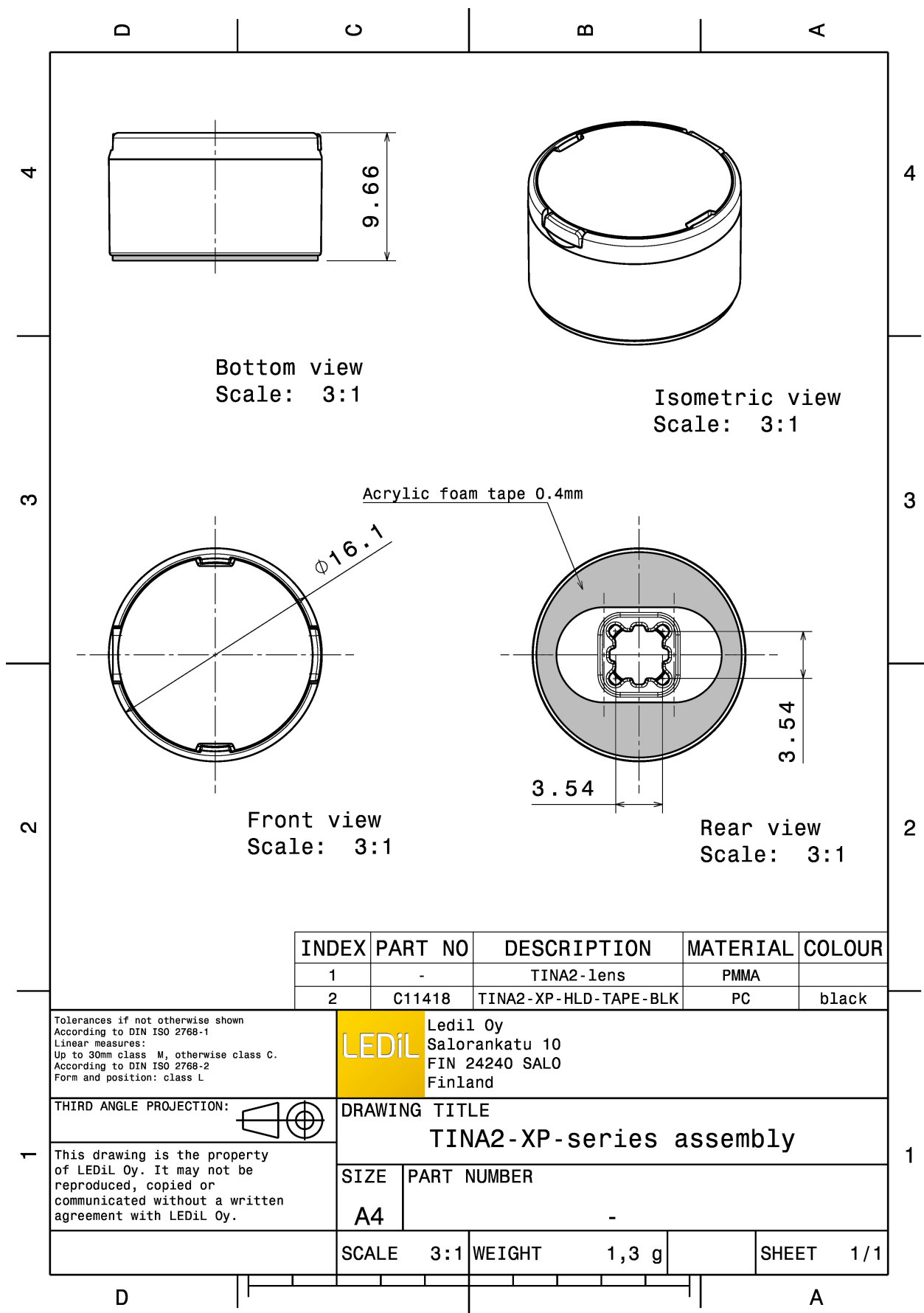


## MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
TINA2-RS	Single lens	PMMA	clear		
TINA2-XP-HLD-TAPE-BLK	Holder	PC	black		
TINA-TAPE3	Tape	Acrylic foam	black		

## ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA11016_TINA2-RS » Box size: 451 x 241 x 298 mm	4140	230	230	8.1

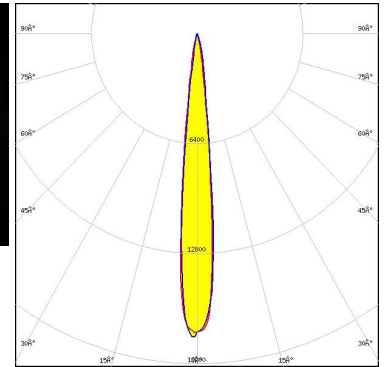


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):



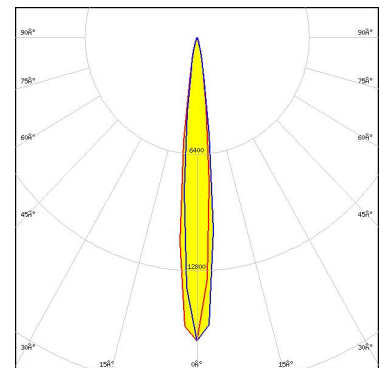
LED XP-E  
 FWHM / FWTM 11.0° / 21.0°  
 Efficiency 90 %  
 Peak intensity 17.7 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



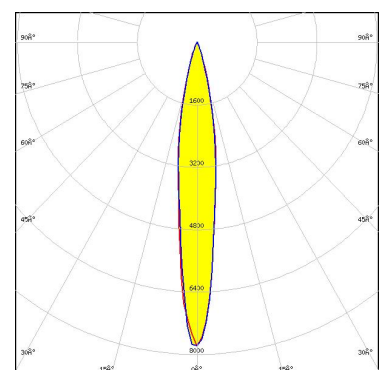
LED XP-E2  
 FWHM / FWTM 11.0° / 22.0°  
 Efficiency 89 %  
 Peak intensity 16.6 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED XP-G  
 FWHM / FWTM 15.0° / 30.0°  
 Efficiency 93 %  
 Peak intensity 9 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

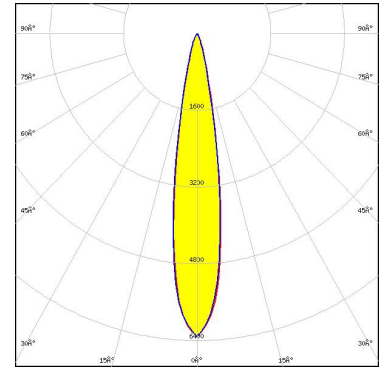


Light distribution files

#### OPTICAL RESULTS (SIMULATED):



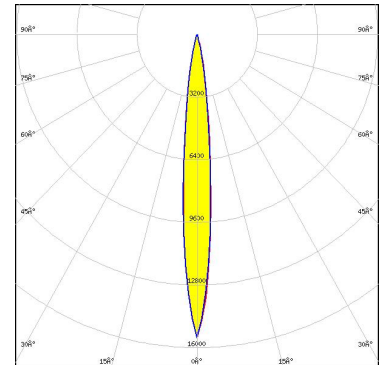
LED XP-G2 HE  
FWHM / FWTM 18.0° / 33.0°  
Efficiency 80 %  
Peak intensity 6.3 cd/Im  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



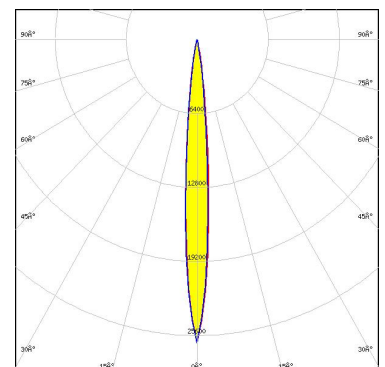
LED LUXEON C  
FWHM / FWTM 11.0° / 24.0°  
Efficiency 85 %  
Peak intensity 15.5 cd/Im  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files



LED LUXEON CZ  
FWHM / FWTM 9.0° / 19.0°  
Efficiency 91 %  
Peak intensity 26.2 cd/Im  
LEDs/each optic 1  
Light colour/type Red  
Required components:

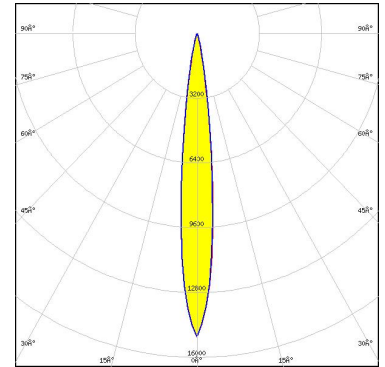


Light distribution files

#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

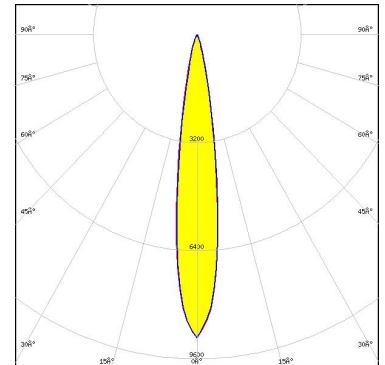
LED: OSCONIQ C 2424  
FWHM / FWTM: 12.0° / 24.0°  
Efficiency: 92 %  
Peak intensity: 15 cd/lm  
LEDs/each optic: 1  
Light colour/type: White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

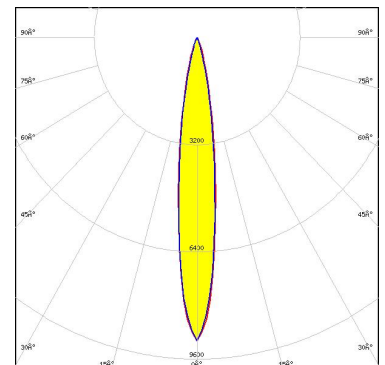
LED: OSOLON Square CSSRM2/CSSRM3  
FWHM / FWTM: 16.0° / 30.0°  
Efficiency: 90 %  
Peak intensity: 9 cd/lm  
LEDs/each optic: 1  
Light colour/type: White  
Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED: OSOLON Square CSSRM2/CSSRM3  
FWHM / FWTM: 14.0° / 32.0°  
Efficiency: 91 %  
Peak intensity: 9.1 cd/lm  
LEDs/each optic: 1  
Light colour/type: White  
Required components:

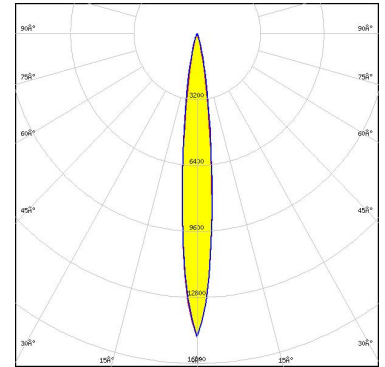


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED OSRAM OSTAR Projection Compact (KW CSLPM1.TG)  
 FWHM / FWTM 12.0° / 25.0°  
 Efficiency 92 %  
 Peak intensity 14.7 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files

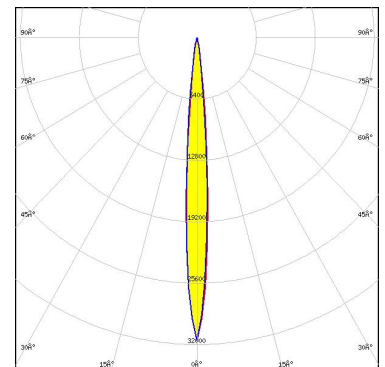


LED SFH 4170S  
 FWHM / FWTM 8.5°  
 Efficiency 78 %  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

Light distribution files



LED Z5  
 FWHM / FWTM 8.0° / 17.0°  
 Efficiency 91 %  
 Peak intensity 31.6 cd/m  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:

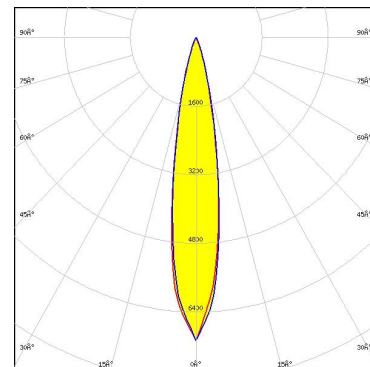


Light distribution files

### OPTICAL RESULTS (SIMULATED):



LED Z5M4  
FWHM / FWTM 18.0° / 36.0°  
Efficiency 92 %  
Peak intensity 7.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Ledil Optics Technology (Shenzhen) Co., Ltd.

# 405 , Block B  
Casic Motor Building  
Shenzhen 518057  
P.R.CHINA

#### Local sales and technical support

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

#### Shipping locations

Poznan, Poland  
Hong Kong, China

#### Distribution Partners

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