

### TINA-O

~35° x 15° oval beam optimized for CREE XP-E.  
Assembly with holder and installation tape.

#### SPECIFICATION:

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

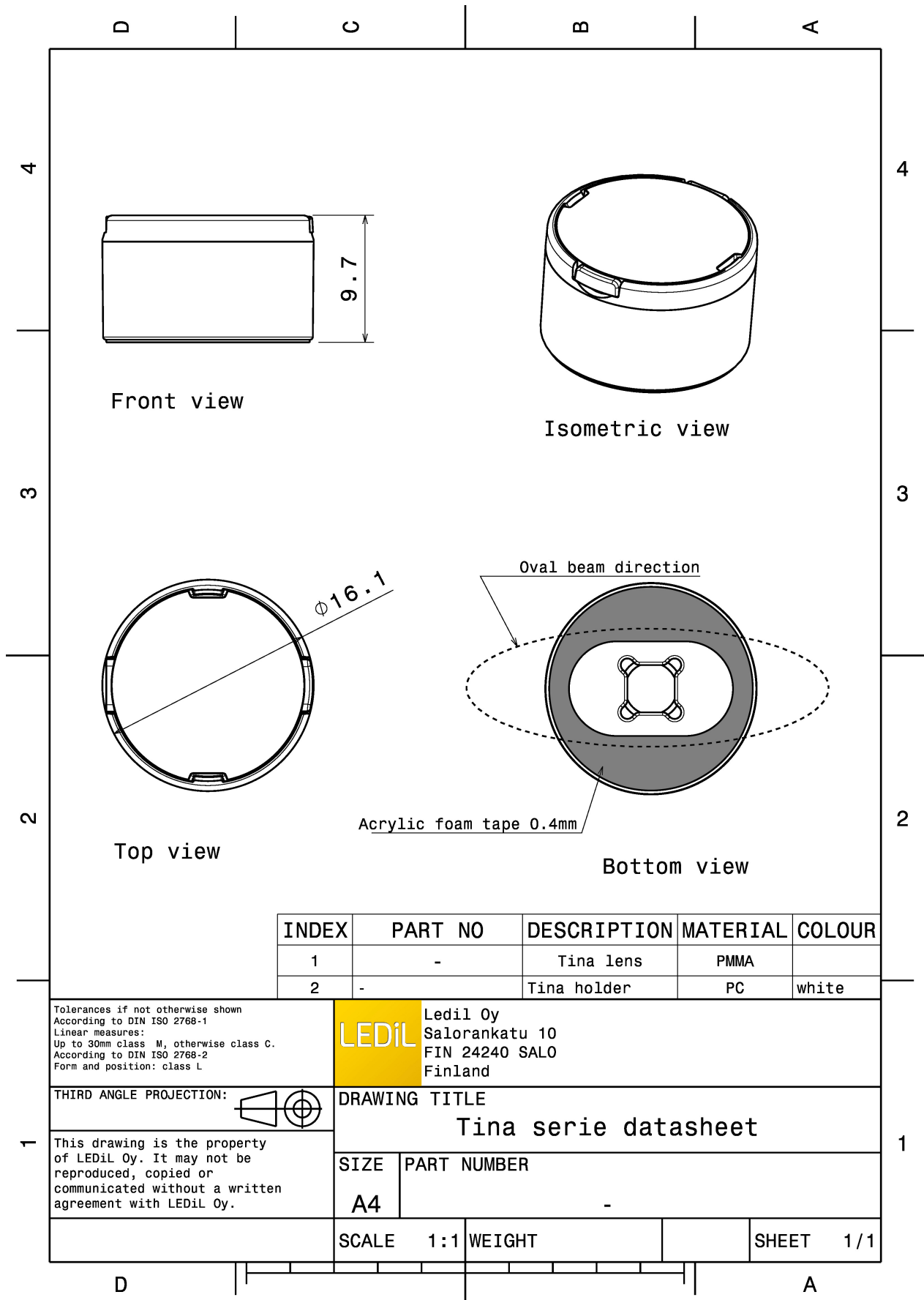


#### MATERIALS:

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

#### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FA11200_TINA-O » Box size: 470 x 240 x 105 mm	2016	288	144	3.9



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	-	Tina lens	PMMA	
2	-	Tina holder	PC	white

Tolerances if not otherwise shown  
According to DIN ISO 2768-1  
Linear measures:  
Up to 30mm class M, otherwise class C.  
According to DIN ISO 2768-2  
Form and position: class L

**LEDiL** Ledil Oy  
Salorankatu 10  
FIN 24240 SALO  
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**Tina serie datasheet**

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SIZE	PART NUMBER
A4	-

SCALE	1:1	WEIGHT	SHEET	1/1
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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	33.0 + 15.0° / 61.0 + 33.0°
Efficiency	93 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

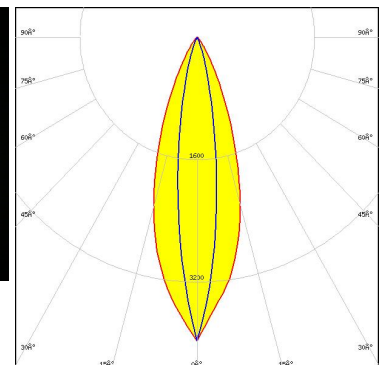


LED	XP-G
FWHM / FWTM	33.0 + 18.0° / 63.0 + 21.0°
Efficiency	92 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files



LED	XT-E
FWHM / FWTM	36.0 + 16.0° / 63.0 + 36.0°
Efficiency	92 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

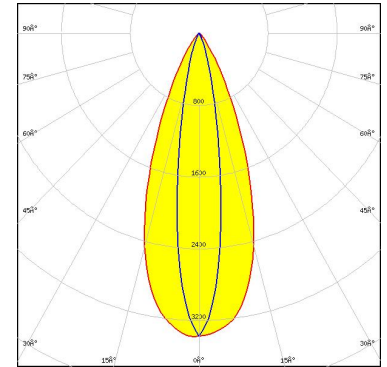


Light distribution files

### OPTICAL RESULTS (SIMULATED):



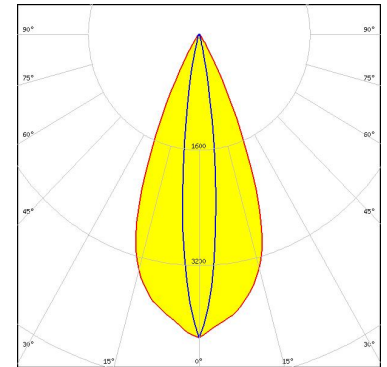
**LED** LUXEON V2  
**FWHM / FWTM** 40.0 + 17.0° / 67.0 + 36.0°  
**Efficiency** 93 %  
**Peak intensity** 3.4 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



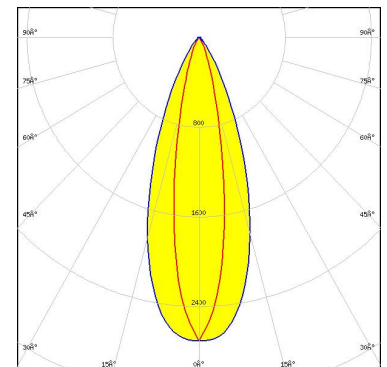
**LED** NCSWE13A  
**FWHM / FWTM** 44.0 + 13.0° / 60.0 + 25.0°  
**Efficiency** 90 %  
**Peak intensity** 4.2 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**



Light distribution files



**LED** NVSW3x9A  
**FWHM / FWTM** 20.0 + 38.0° / 42.0 + 67.0°  
**Efficiency** 84 %  
**Peak intensity** 2.7 cd/lm  
**LEDs/each optic** 1  
**Light colour/type** White  
**Required components:**

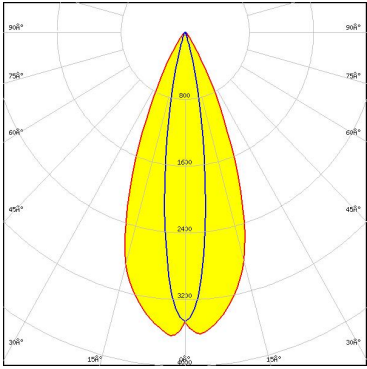


Light distribution files

### OPTICAL RESULTS (SIMULATED):

**NICHIA**

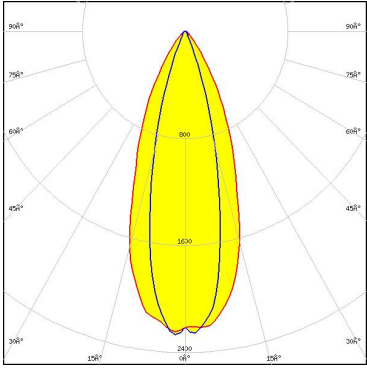
LED: NVSxE21A  
 FWHM / FWTM: 42.0 + 16.0° / 64.0 + 32.0°  
 Efficiency: 94 %  
 Peak intensity: 3.6 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

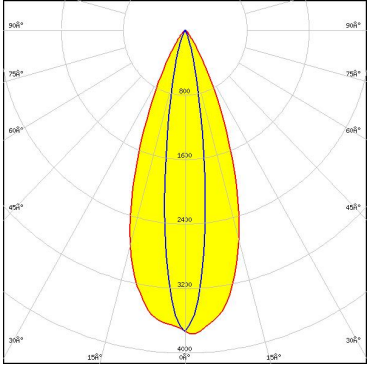
LED: OSLO Pure 1414  
 FWHM / FWTM: Asymmetric  
 Efficiency: 93 %  
 Peak intensity: 2.3 cd/lm  
 LEDs/each optic: 4  
 Light colour/type: White  
 Required components:



Light distribution files

**OSRAM**  
Opto Semiconductors

LED: OSLO Square CSSRM2/CSSRM3  
 FWHM / FWTM: 40.0 + 16.0° / 66.0 + 34.0°  
 Efficiency: 94 %  
 Peak intensity: 3.8 cd/lm  
 LEDs/each optic: 1  
 Light colour/type: White  
 Required components:

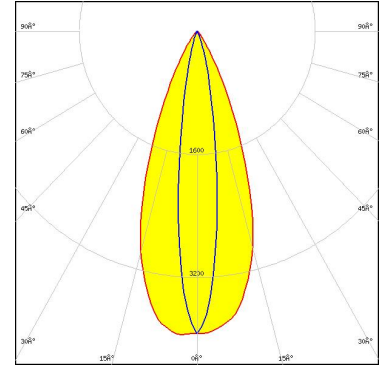


Light distribution files

### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM 40.0 + 15.0° / 64.0 + 33.0°  
Efficiency 94 %  
Peak intensity 4 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:



Light distribution files

**SEUL**  
SEOUL SEMICONDUCTOR

LED Z5  
FWHM / FWTM 35.0 + 15.0°  
Efficiency %  
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:

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#### LEDiL Oy

Joensuunkatu 7  
FI-24100 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

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