

## 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 ⓘ

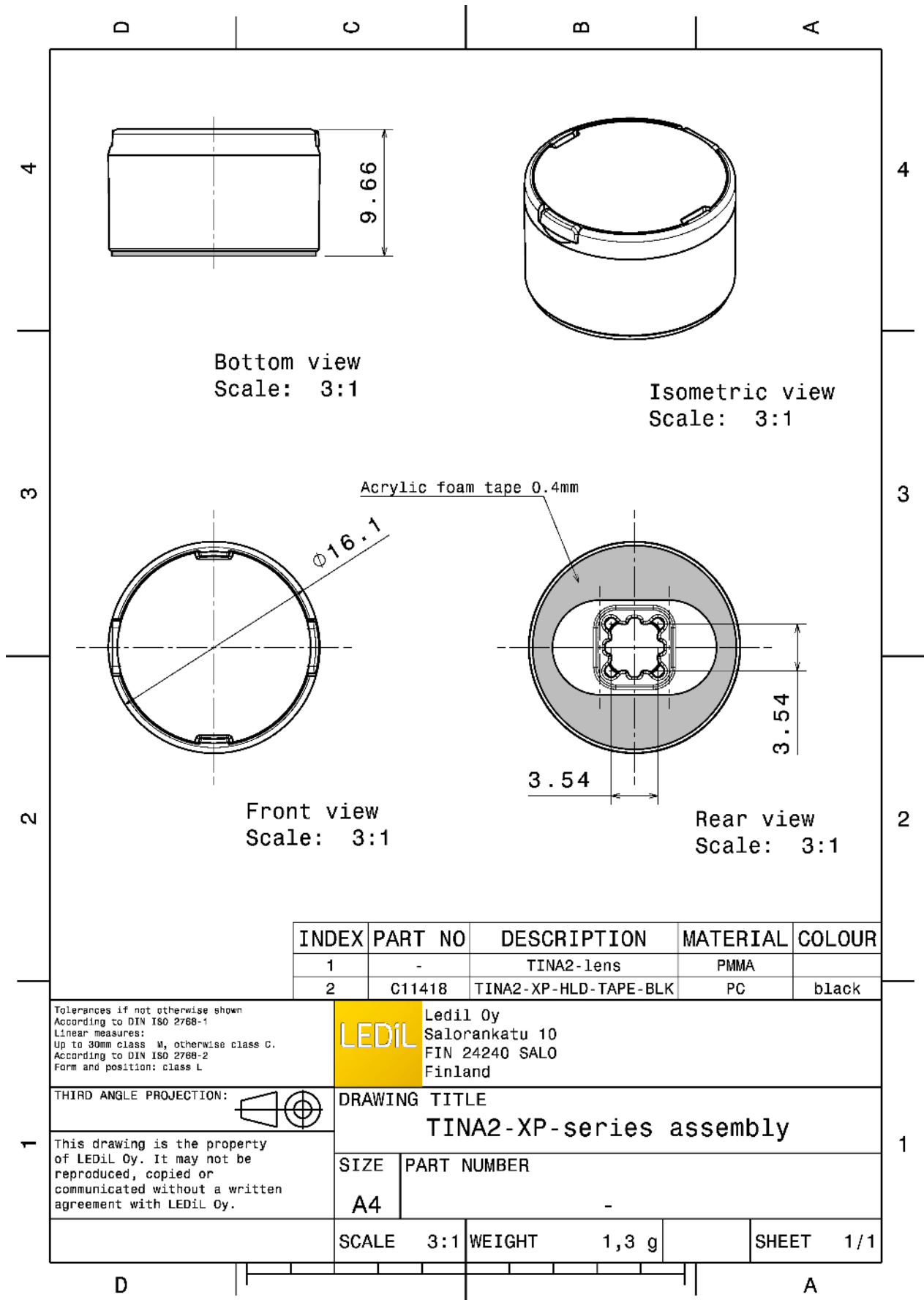


### MATERIALS:

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


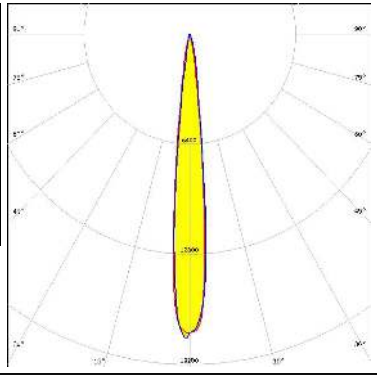

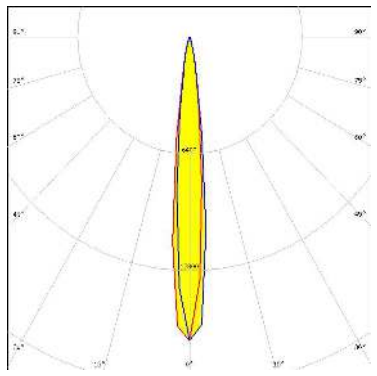

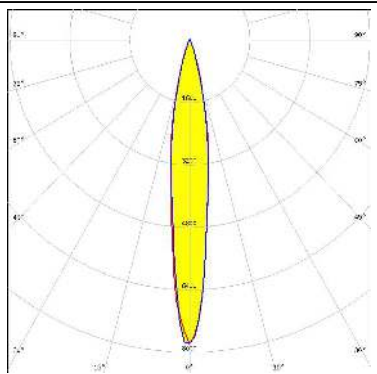
### ORDERING INFORMATION:

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



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

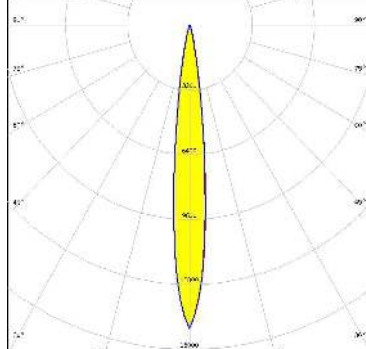
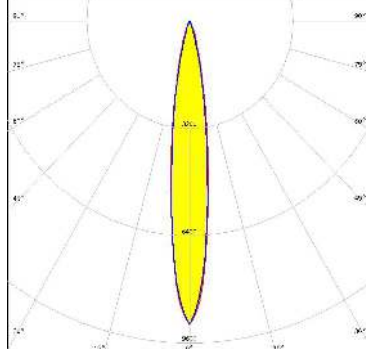

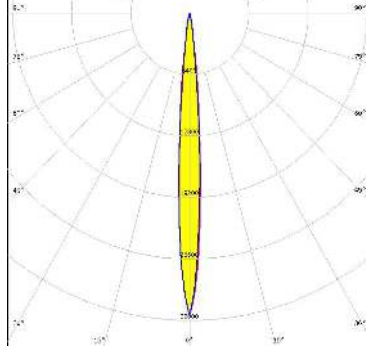
### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED                    XP-E            FWHM / FWTM    11.0° / 21.0°            Efficiency            90 %            Peak intensity     17.7 cd/lm            LEDs/each optic   1            Light colour        White            Required components:</p>		
<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED                    XP-E2            FWHM / FWTM    11.0° / 22.0°            Efficiency            89 %            Peak intensity     16.6 cd/lm            LEDs/each optic   1            Light colour        White            Required components:</p>		
<p><b>CREE</b> ⇄ <b>LED</b></p> <p>LED                    XP-G            FWHM / FWTM    15.0° / 30.0°            Efficiency            93 %            Peak intensity     9 cd/lm            LEDs/each optic   1            Light colour        White            Required components:</p>		

### OPTICAL RESULTS (SIMULATED):

<p><b>CREE</b> LED</p> <p>LED: XP-G2 HE            FWHM / FWTM: 18.0° / 33.0°            Efficiency: 80 %            Peak intensity: 6.3 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON C            Assembly: NULL            FWHM / FWTM: 11.0° / 24.0°            Efficiency: 85 %            Peak intensity: 15.5 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON CZ            FWHM / FWTM: 9.0° / 19.0°            Efficiency: 91 %            Peak intensity: 26.2 cd/lm            LEDs/each optic: 1            Light colour: Red            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: KW CSLPM1.TG            FWHM / FWTM: 12.0° / 25.0°            Efficiency: 92 %            Peak intensity: 14.7 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

#### OPTICAL RESULTS (SIMULATED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ C 2424</p> <p>FWHM / FWTM 12.0° / 24.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 15 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 14.0° / 32.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 9.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED SFH 4170S</p> <p>FWHM / FWTM 8.5°</p> <p>Efficiency 78 %</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>SECOUL SEMICONDUCTOR</b></p> <p>LED Z5</p> <p>FWHM / FWTM 8.0° / 17.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 31.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

### OPTICAL RESULTS (SIMULATED):



### 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 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

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