

## TINA3-OO

~60° + 40° oval beam optimized for CREE XP-E.  
Assembly with holder, installation tape and location pins.

### SPECIFICATION:

Dimensions	Ø 16.1 mm
Height	6.9 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

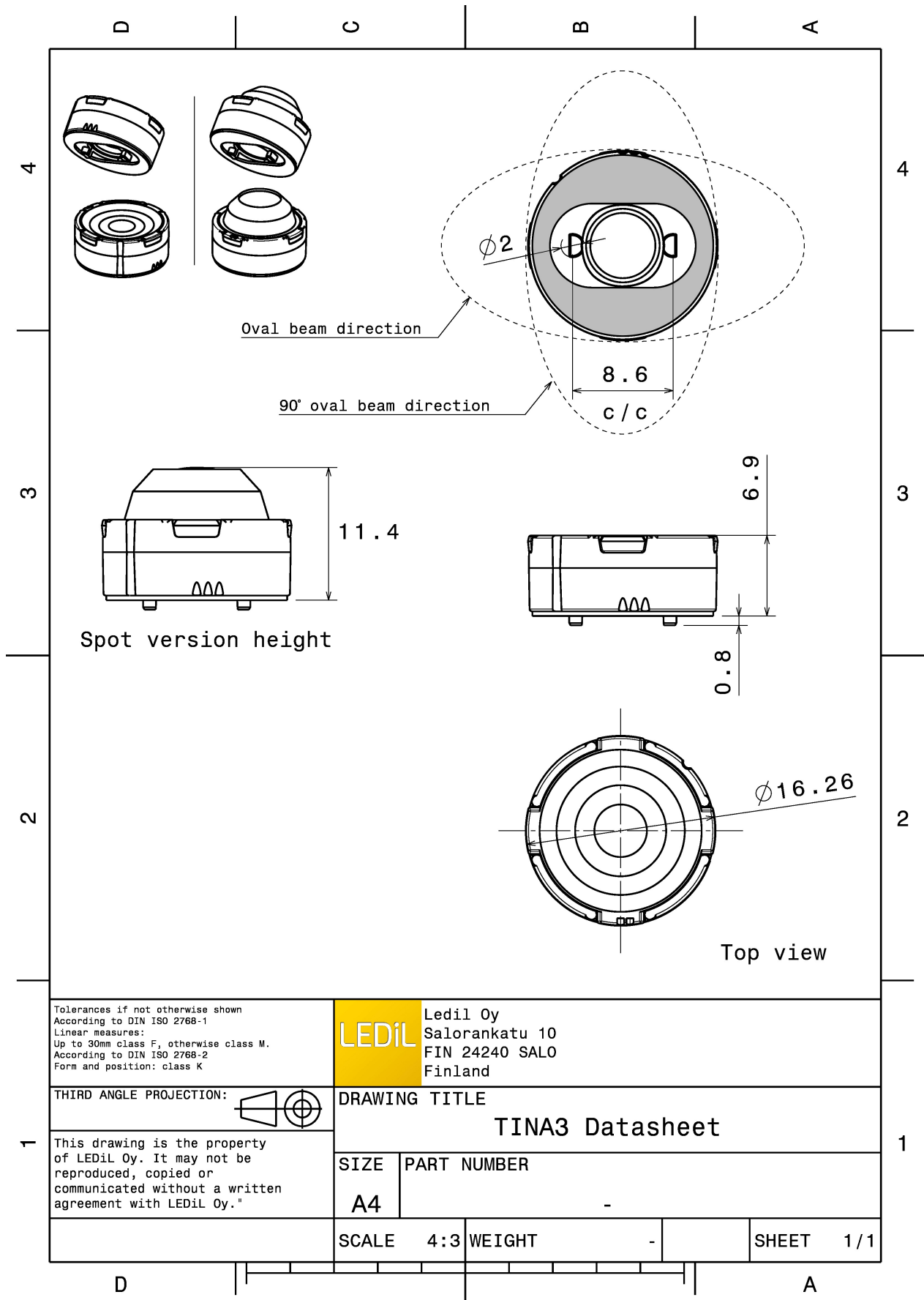


### MATERIALS:

Component	Type	Material	Colour	Finish
TINA3-OO	Single lens	PMMA	clear	
TINA3-HLD-PIN-TAPE-XP	Holder	PC	white	
TINA-TAPE3	Tape	Acrylic foam	black	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FA11870_TINA3-OO	Single lens	2016	288	288	3.1
» Box size: 470 x 240 x 105 mm					



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

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

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**TINA3 Datasheet**

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SIZE	PART NUMBER
A4	-

SCALE	4:3	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)

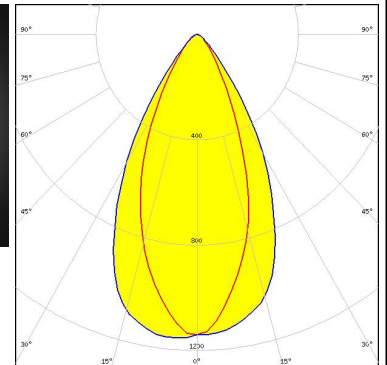
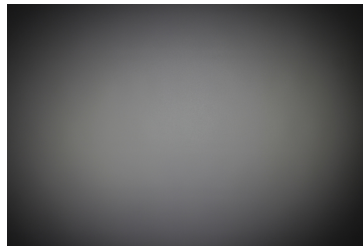
#### OPTICAL RESULTS (MEASURED):



LED XB-D  
 FWHM / FWTM 54.0 + 42.0° / 82.0 + 72.0°  
 Efficiency 91 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



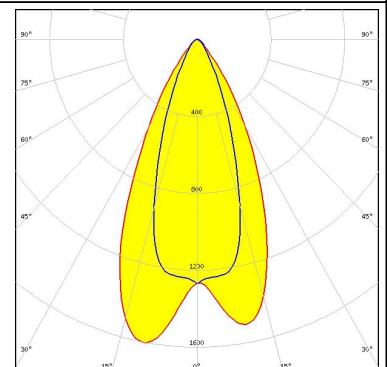
LED XB-H  
 FWHM / FWTM 59.0 + 43.0° / 88.0 + 77.0°  
 Efficiency 88 %  
 Peak intensity 1.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XP-E  
 FWHM / FWTM 52.0 + 35.0° / 76.0 + 54.0°  
 Efficiency 93 %  
 Peak intensity 1.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED XP-G  
 FWHM / FWTM 51.0 + 39.0° / 81.0 + 65.0°  
 Efficiency 93 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):

##### LUMILEDS

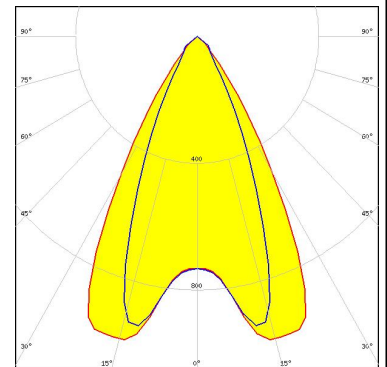
LED LUXEON A  
FWHM / FWTM 46.0 + 60.0° / 72.0 + 82.0°  
Efficiency %  
LEDs/each optic 1  
Light colour White  
Required components:

##### LUMILEDS

LED LUXEON Rebel  
FWHM / FWTM 58.0 + 38.0° / 76.0 + 72.0°  
Efficiency 83 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

##### LUMILEDS

LED LUXEON Rebel ES  
FWHM / FWTM 60.0 + 46.0° / 82.0 + 72.0°  
Efficiency 92 %  
Peak intensity 1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### NICHIA

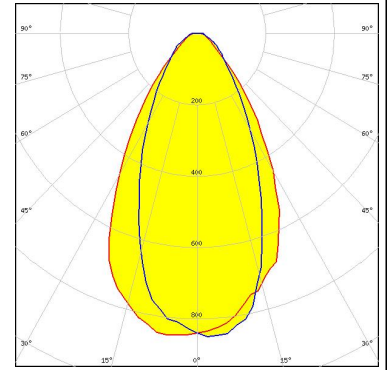
LED NVSxx19A  
FWHM / FWTM 62.0 + 48.0° / 88.0 + 84.0°  
Efficiency 93 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### OPTICAL RESULTS (MEASURED):

##### OSRAM

Opto Semiconductors

LED OSLON Square EC  
 FWHM / FWTM 62.0 + 50.0° / 108.0 + 102.0°  
 Efficiency 87 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

LED OSLON SSL 150  
 FWHM / FWTM 53.0 + 36.0° / 76.0 + 64.0°  
 Efficiency 90 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

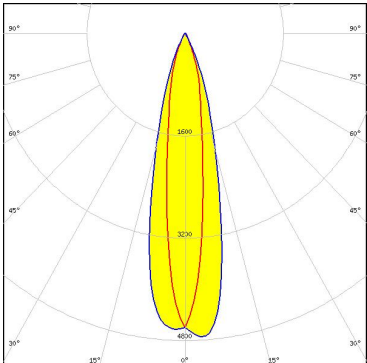
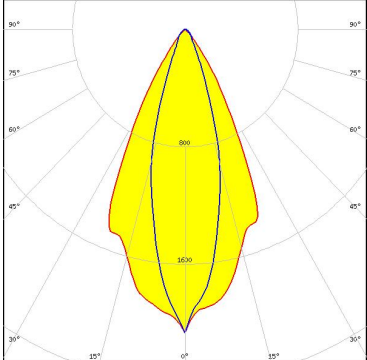
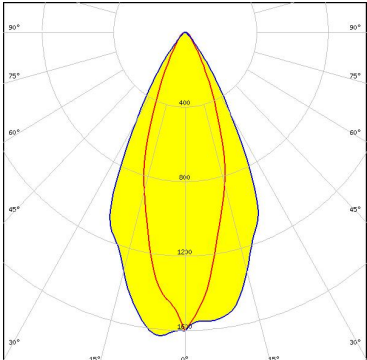
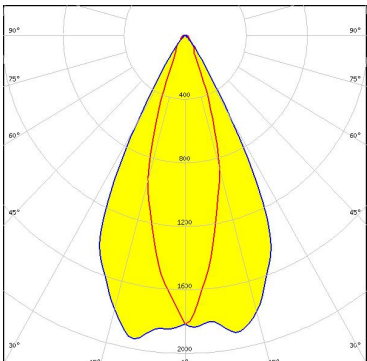
##### OSRAM

Opto Semiconductors

LED OSLON SSL 80  
 FWHM / FWTM 36.0 + 52.0° / 62.0 + 74.0°  
 Efficiency 88 %  
 Peak intensity 1.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

SetPlotAreaWidth(0): X range error - min >= max

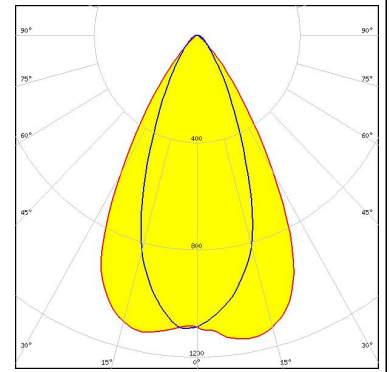
#### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED LUXEON 2835 Line</p> <p>FWHM / FWTM 14.0 + 26.0° / 42.0 + 49.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 4.8 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 OSCONIQ P 3030</p> <p>FWHM / FWTM 52.0 + 27.0° / 74.0 + 52.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 2.1 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 OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 33.0 + 53.0° / 64.0 + 78.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 1.7 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 SYNIOS S2222</p> <p>FWHM / FWTM 29.0 + 54.0° / 52.0 + 72.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 1.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

### OPTICAL RESULTS (SIMULATED):

#### SAMSUNG

LED LH351B  
FWHM / FWTM Asymmetric  
Efficiency 93 %  
Peak intensity 1.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



SEOUL SEMICONDUCTOR

LED Z8Y22P  
FWHM / FWTM 60.0 + 42.0°  
Efficiency 94 %  
Peak intensity 1.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

