

## TINA-D

~16° diffused spot beam optimized for CREE XP-E

### SPECIFICATION:

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

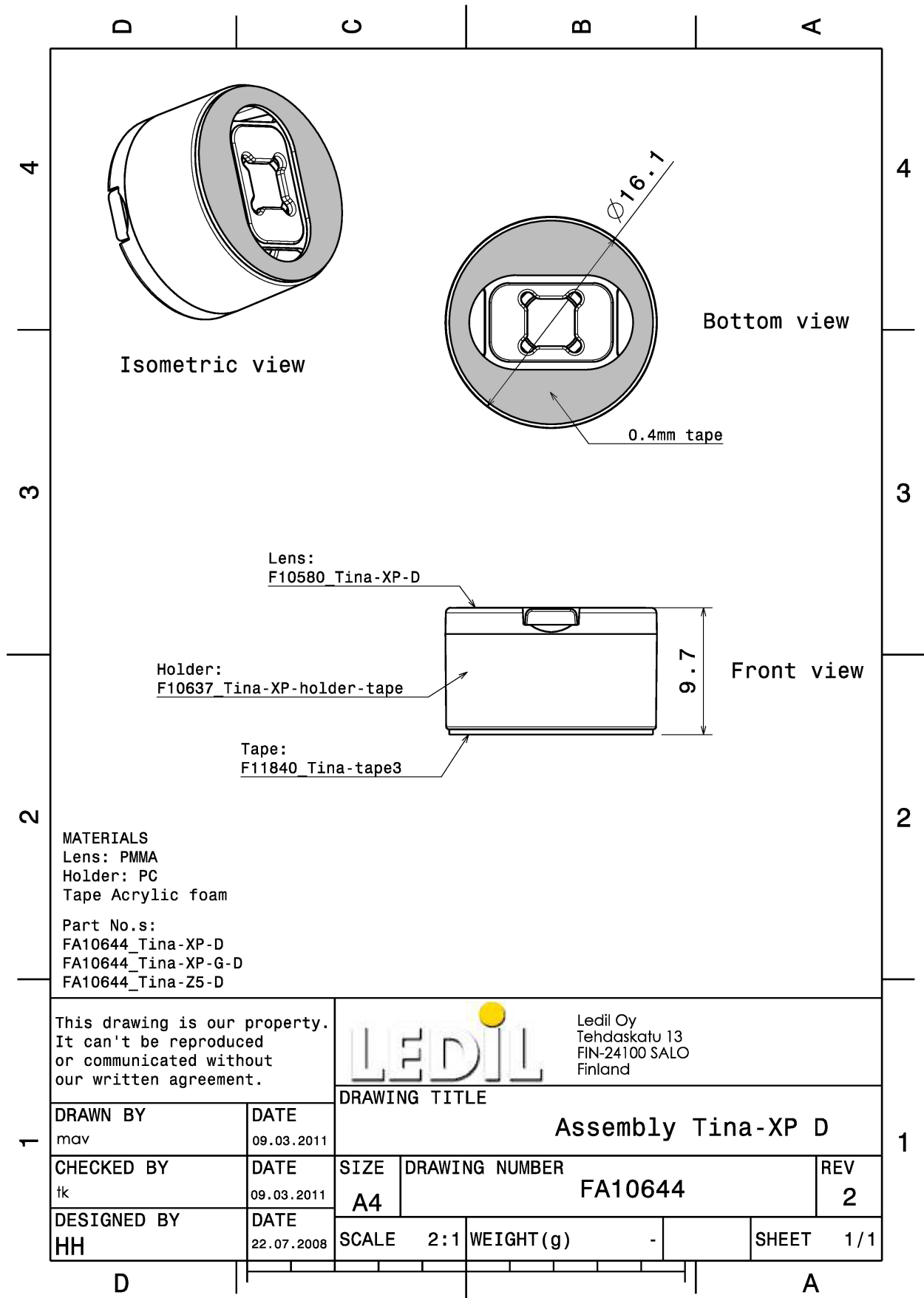


### MATERIALS:

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

### ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FA10644_TINA-D » Box size: 470 x 240 x 105 mm	2016	288	144	4.2



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 14.0° / 29.0°  
Efficiency 93 %  
Peak intensity 9.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files

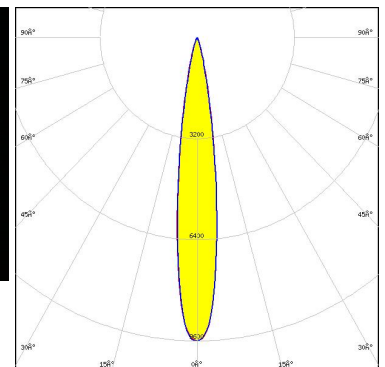


LED XP-G  
FWHM / FWTM 20.0° / 40.0°  
Efficiency 93 %  
Peak intensity 5.1 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

Light distribution files



LED XT-E  
FWHM / FWTM 17.0° / 35.0°  
Efficiency 94 %  
Peak intensity 6.2 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

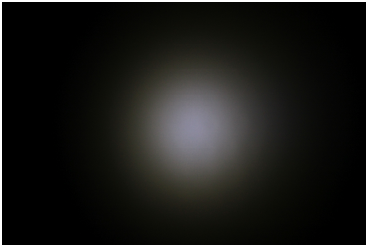
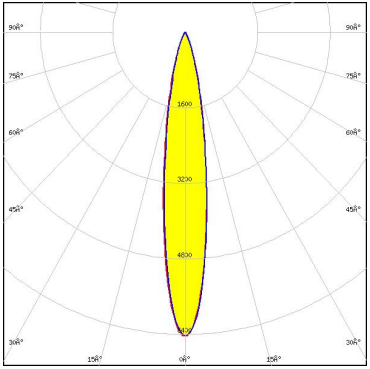


Light distribution files

### OPTICAL RESULTS (MEASURED):

**LUMILEDS**

LED	LUXEON 2835 Line
FWHM / FWTM	17.0° / 38.0°
Efficiency	96 %
Peak intensity	6.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

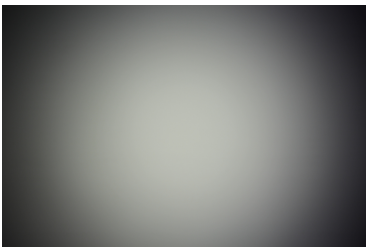
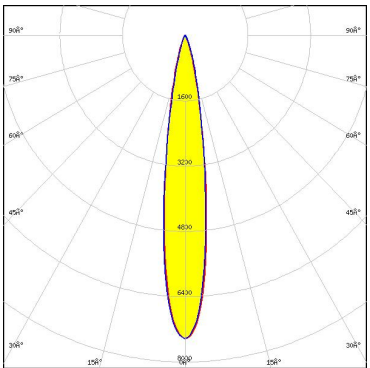
**SEOL SEMICONDUCTOR**

LED	Z5
FWHM / FWTM	12.0°
Efficiency	%
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

**SEOL SEMICONDUCTOR**

LED	Z5M1/Z5M2
FWHM / FWTM	16.0° / 34.0°
Efficiency	94 %
Peak intensity	7.4 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

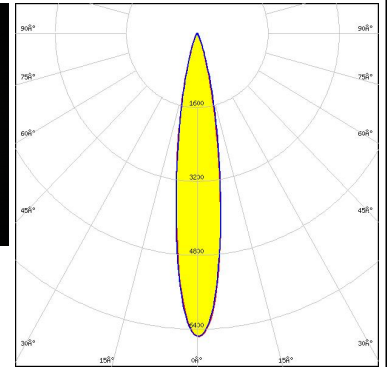
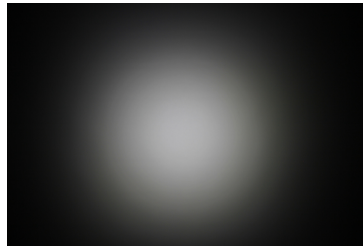



Light distribution files

### OPTICAL RESULTS (MEASURED):

**TOSHIBA**  
Leading Innovation >>>

LED TL1L4  
FWHM / FWTM 17.0° / 36.0°  
Efficiency 94 %  
Peak intensity 6.6 cd/lm  
LEDs/each optic 1  
Light colour/type White  
Required components:

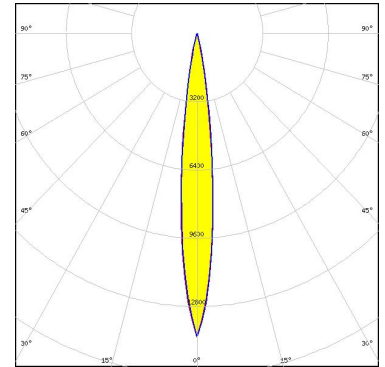


Light distribution files

### OPTICAL RESULTS (SIMULATED):



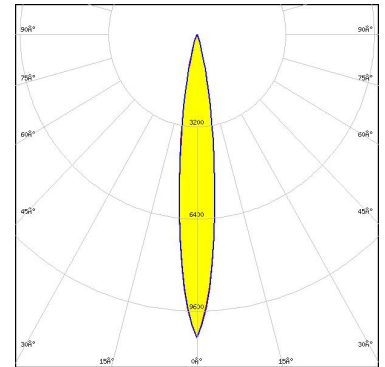
LED NCSWE13A  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 89 %  
 Peak intensity 14.2 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



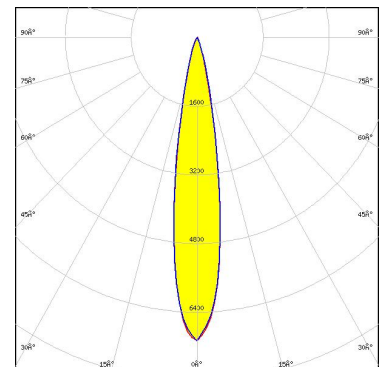
LED NVSxE21A  
 FWHM / FWTM 14.0° / 30.0°  
 Efficiency 93 %  
 Peak intensity 10.5 cd/lm  
 LEDs/each optic 1  
 Light colour/type White  
 Required components:



Light distribution files



LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 18.0° / 34.0°  
 Efficiency 88 %  
 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:

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