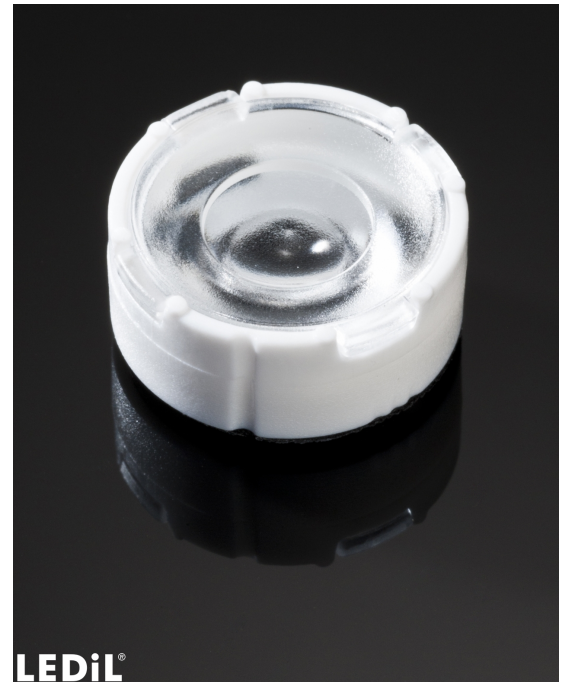


## TINA3-WW

~55° wide 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 ⓘ

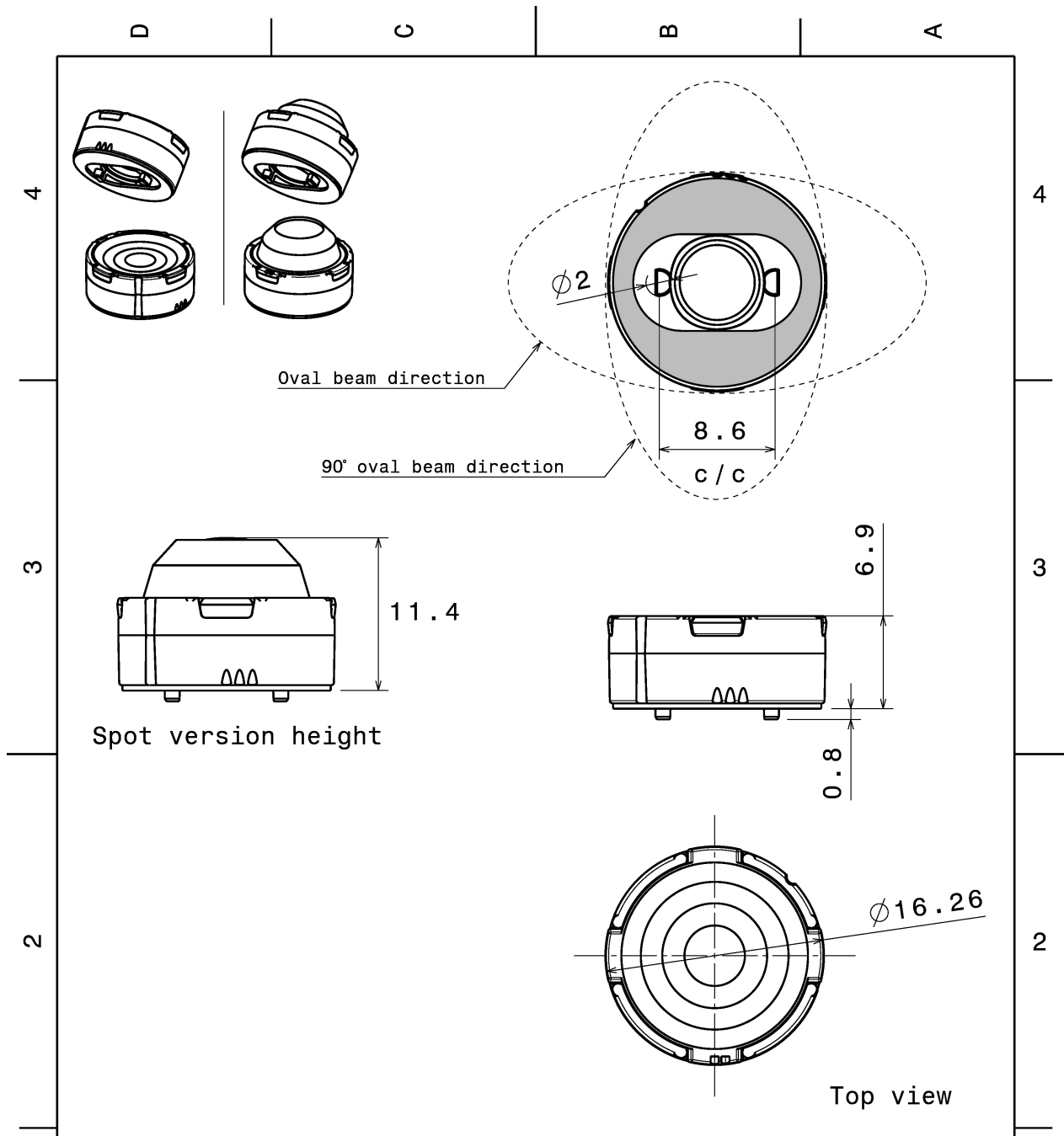


### MATERIALS:

Component	Type	Material	Colour	Finish
TINA3-WW	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)
FA11825_TINA3-WW	Single lens	2016	288	288	3.2
» Box size:					



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):

##### CREE LED

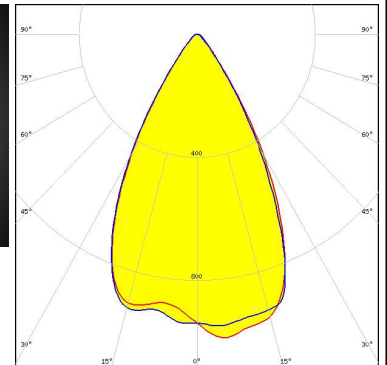
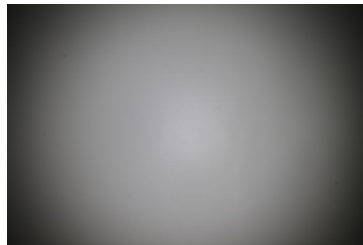
LED XP-E  
 FWHM / FWTM 54.0° / 77.0°  
 Efficiency 93 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

##### CREE LED

LED XP-G  
 FWHM / FWTM 41.0° / 82.0°  
 Efficiency 93 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

##### CREE LED

LED XP-L HI  
 FWHM / FWTM 58.0° / 82.0°  
 Efficiency 90 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### LUMILEDS

LED LUXEON A  
 FWHM / FWTM 61.5°  
 Efficiency %  
 LEDs/each optic 1  
 Light colour White  
 Required components:

### OPTICAL RESULTS (MEASURED):

#### LUMILEDS

LED LUXEON Rebel  
FWHM / FWTM 50.0° / 79.0°  
Efficiency 85 %  
Peak intensity 1.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### LUMILEDS

LED LUXEON Rebel ES  
FWHM / FWTM 62.0° / 82.0°  
Efficiency 92 %  
Peak intensity 0.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

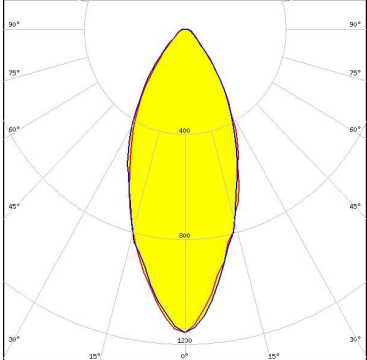
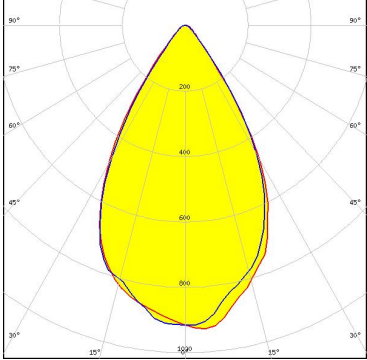
#### NICHIA

LED NVSxx19A  
FWHM / FWTM 59.0° / 90.0°  
Efficiency 93 %  
Peak intensity 0.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

#### OSRAM

Osram Opto Semiconductors  
LED OSLOM SSL 150  
FWHM / FWTM 44.0° / 73.0°  
Efficiency 91 %  
Peak intensity 1.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

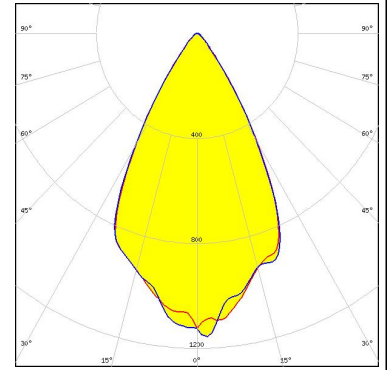
#### OPTICAL RESULTS (MEASURED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSOLON SSL 80</p> <p>FWHM / FWTM 51.0° / 72.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 1.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>SEOUL</b> SEOUL SEMICONDUCTOR</p> <p>LED Z5</p> <p>FWHM / FWTM 43.0° / 88.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 1.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>SEOUL</b> SEOUL SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2</p> <p>FWHM / FWTM 62.0° / 90.0°</p> <p>Efficiency 89 %</p> <p>Peak intensity 0.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

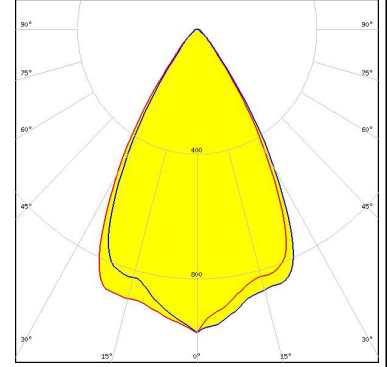
#### OPTICAL RESULTS (SIMULATED):



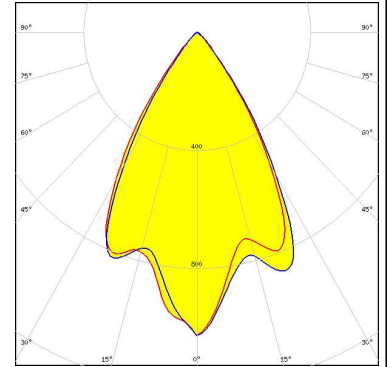
LED LUXEON Z ES  
 FWHM / FWTM 57.0° / 79.0°  
 Efficiency 94 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



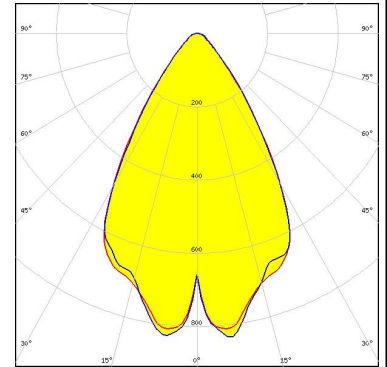
LED NCSxx19A  
 FWHM / FWTM 60.0° / 83.0°  
 Efficiency 92 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSLOM SSL 120  
 FWHM / FWTM 61.0° / 82.0°  
 Efficiency 87 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour Amber  
 Required components:



LED Z8Y22P  
 FWHM / FWTM 63.0°  
 Efficiency 90 %  
 Peak intensity 0.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### 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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