

## TINA2-M

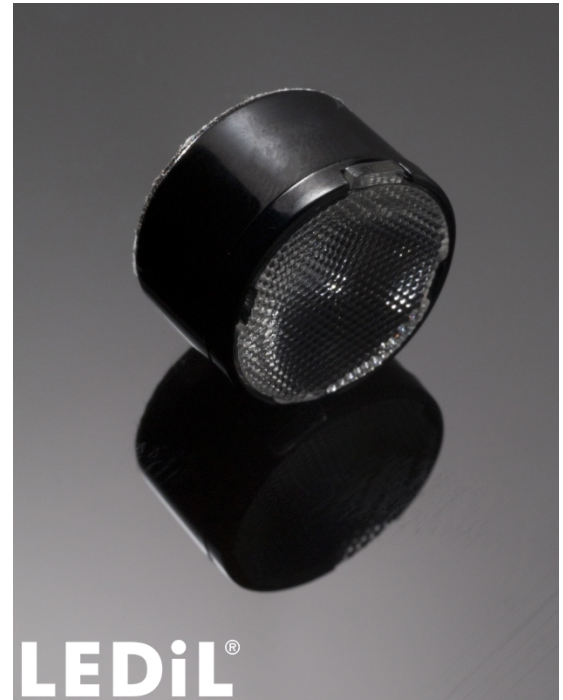
~30° medium beam optimized for Nichia NS6x83.  
Assembly with holder and installation tape.

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.1 mm
Height	11 mm
Fastening	tape
ROHS compliant	yes ⓘ

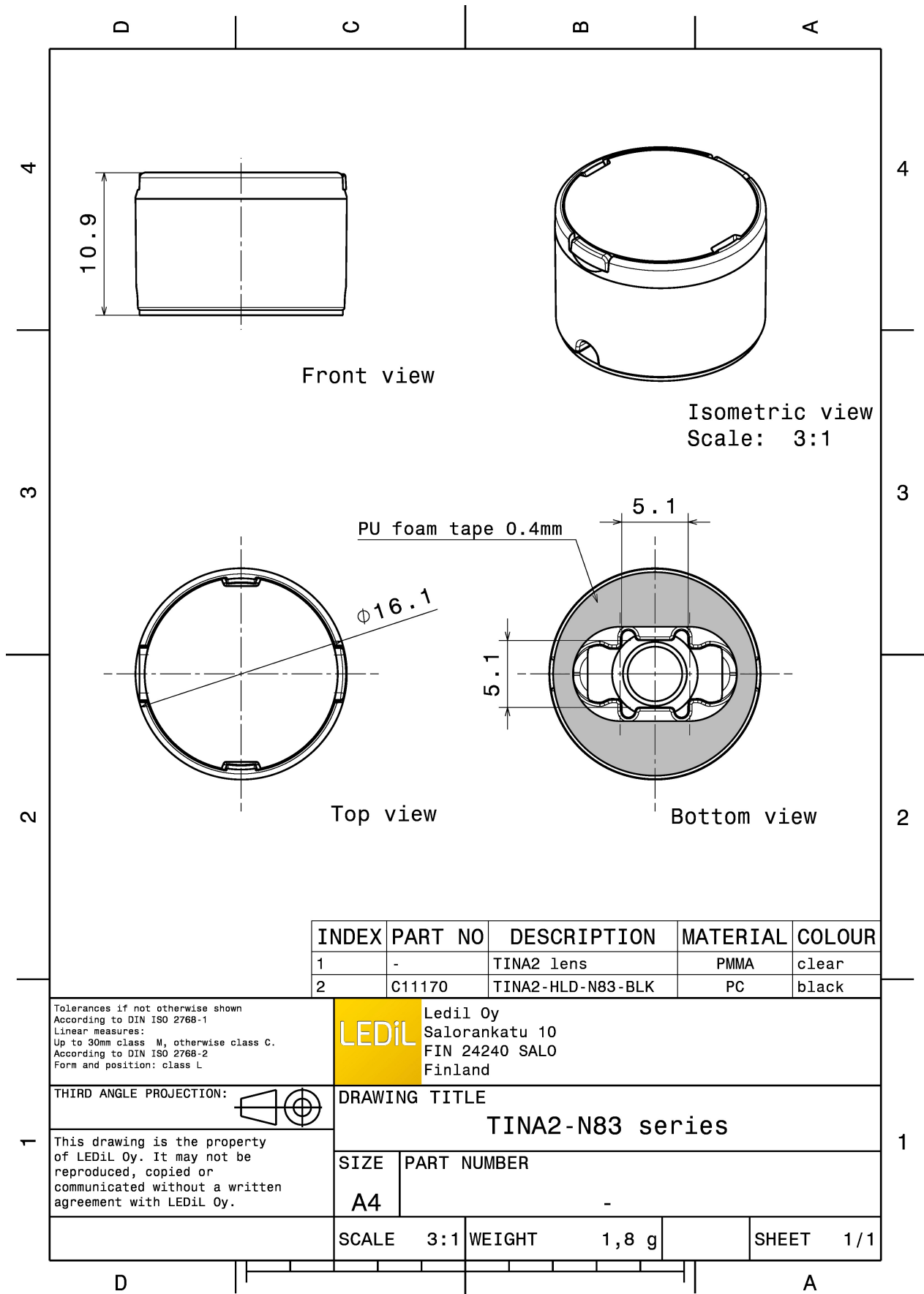
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
TINA2-M	Single lens	PMMA	clear	
TINA2-HLD-N83-BLK	Holder	PC	black	
TINA-TAPE3	Tape	PU tape	black	



### ORDERING INFORMATION:

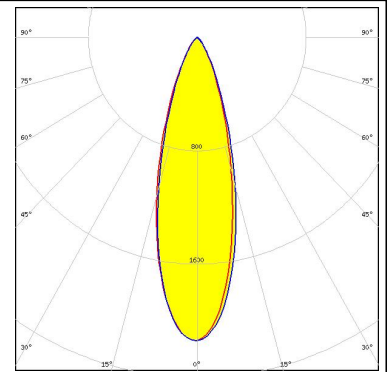
Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11174_TINA2-M	Single lens	4140	230	230	9.2
» Box size: 451 x 241 x 298 mm					



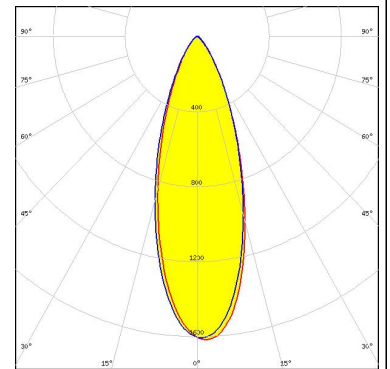
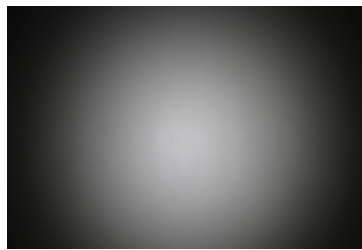
#### PHOTOMETRIC DATA (MEASURED):



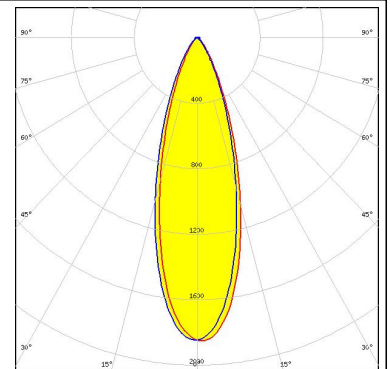
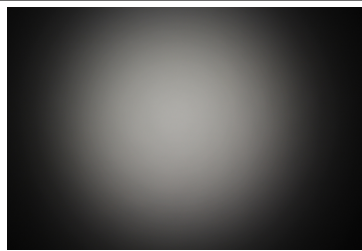
LED MX-6  
 FWHM 30.0°  
 Efficiency 83 %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON 5050 Round LES  
 FWHM 34.0°  
 Efficiency 78 %  
 Peak intensity 1.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

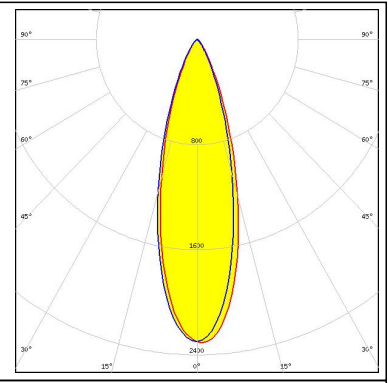
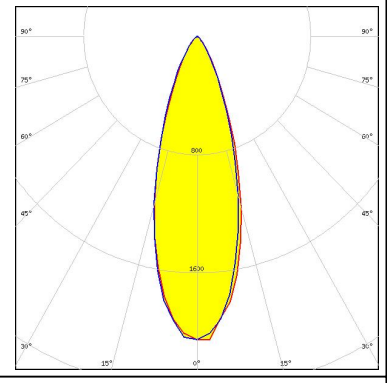

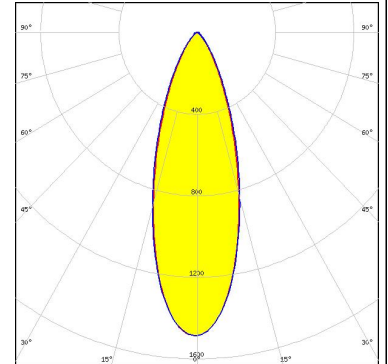


LED LUXEON V  
 FWHM 32.0°  
 Efficiency 75 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NS3x83  
 FWHM 32.0°  
 Efficiency %  
 Peak intensity 2.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

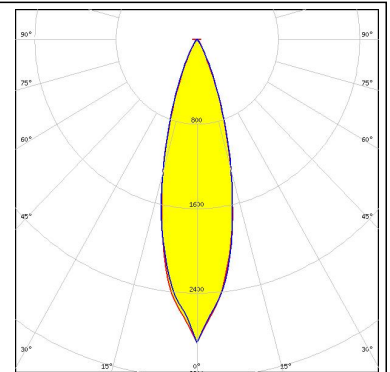
### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></p> <p>LED NS6x83            FWHM 30.0°            Efficiency 85 %            Peak intensity 2.3 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OPTOGAN</b></p> <p>LED OLP-x5050F6L            FWHM 34.0°            Efficiency 86 %            Peak intensity 2.1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>SAMSUNG</b></p> <p>LED LH508A            FWHM 33.0°            Efficiency 71 %            Peak intensity 1.5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

### PHOTOMETRIC DATA (SIMULATED):

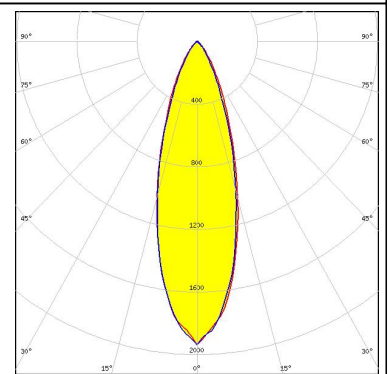
**CREE** 

LED XT-E  
FWHM 28.0°  
Efficiency 81 %  
Peak intensity 2.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



**OSRAM**  
Opto Semiconductors

LED Duris S8  
FWHM 31.0°  
Efficiency 78 %  
Peak intensity 1.9 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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**LEDiL Oy**  
Joensuunkatu 13  
FI-24240 SALO  
Finland

**LEDiL Inc.**  
228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

**Local sales and technical support**  
[www.ledil.com/where\\_to\\_buy](http://www.ledil.com/where_to_buy)

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