

## TINA2-W

~45° wide beam. Assembly with holder and installation tape.

### SPECIFICATION:

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

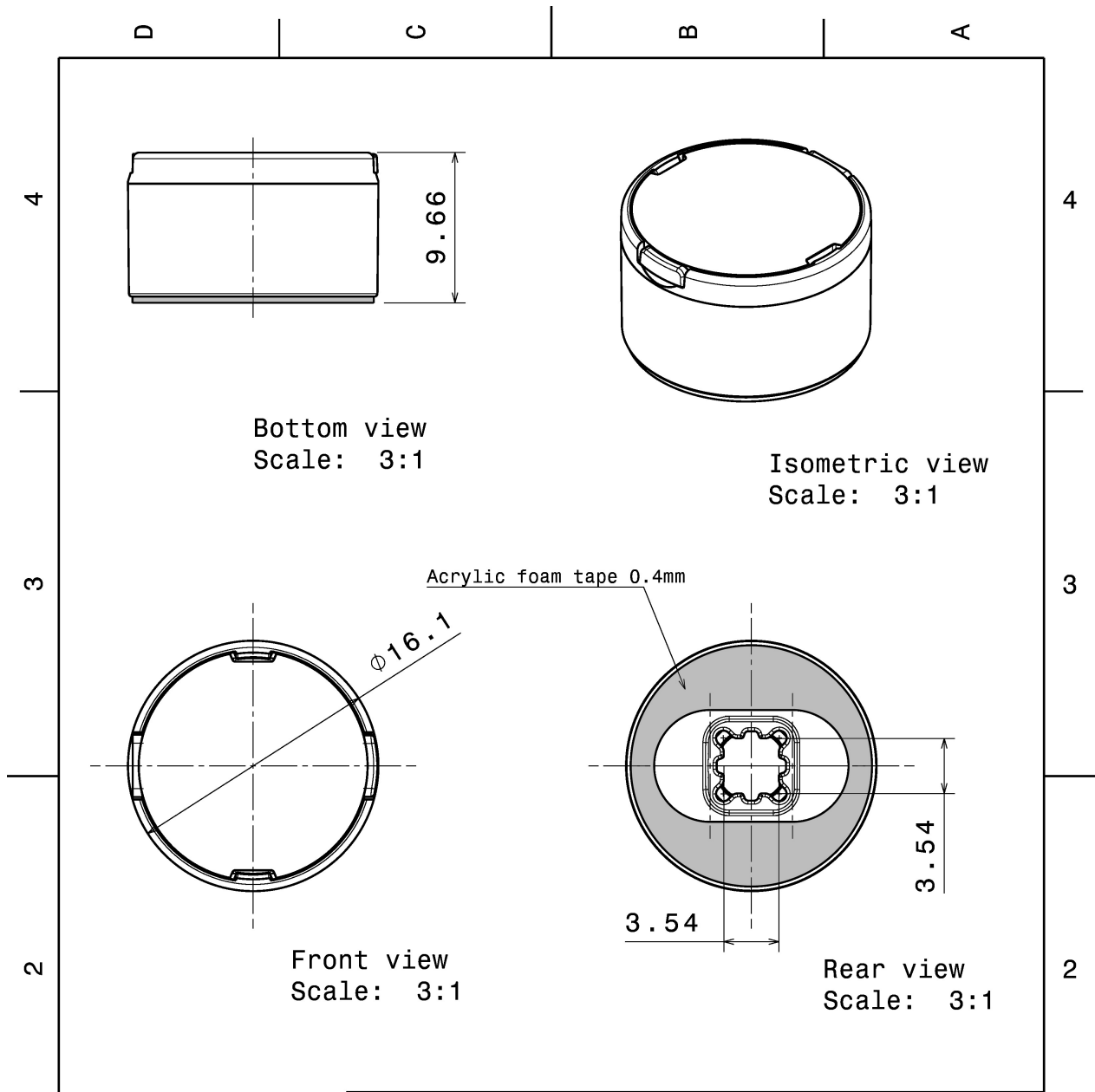


### MATERIALS:

Component	Type	Material	Colour	Finish
TINA2-W-XP	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)
CA12056_TINA2-W	Single lens	4140	230	230	8.7
» Box size: 451 x 241 x 298 mm					



INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	-	TINA2-lens	PMMA	
2	C11418	TINA2-XP-HLD-TAPE-BLK	PC	black

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

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

THIRD ANGLE PROJECTION:

DRAWING TITLE  
**TINA2-XP-series assembly**


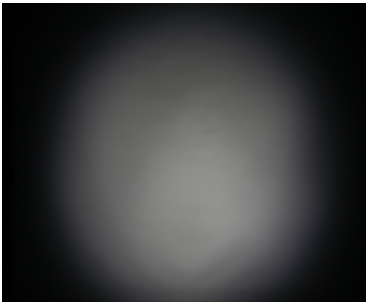
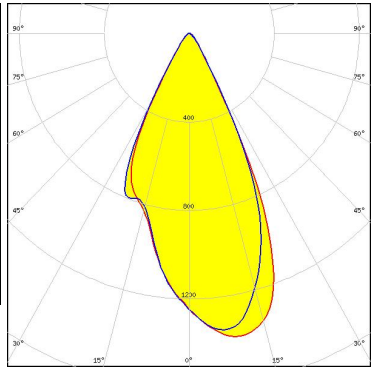


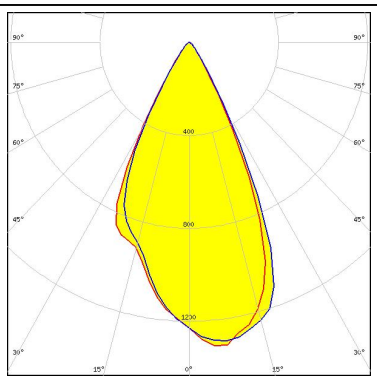


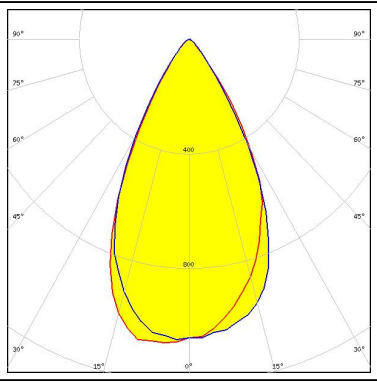

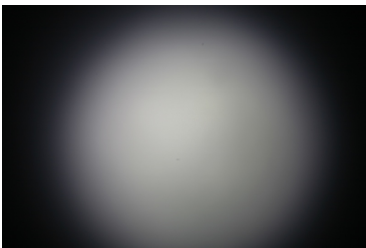
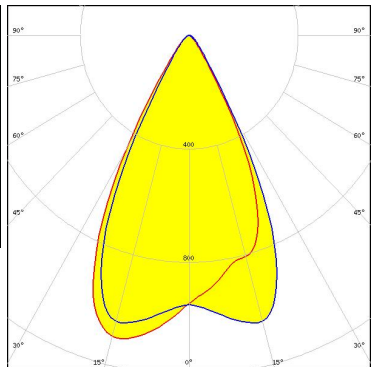
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SIZE	PART NUMBER
A4	-

SCALE	3:1	WEIGHT	1,3 g	SHEET	1/1
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See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

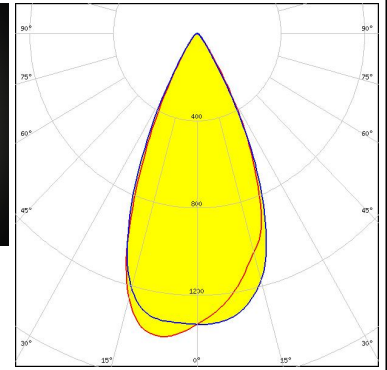
#### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b>  <b>LED</b></p> <p>LED XP-E            FWHM / FWTM 50.0° / 68.0°            Efficiency 88 %            Peak intensity 1.5 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 52.0° / 70.0°            Efficiency 89 %            Peak intensity 1.2 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 57.0° / 81.0°            Efficiency 88 %            Peak intensity 1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b>  <b>LED</b></p> <p>LED XP-G2            FWHM / FWTM 54.0° / 74.0°            Efficiency 88 %            Peak intensity 1 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

#### OPTICAL RESULTS (MEASURED):

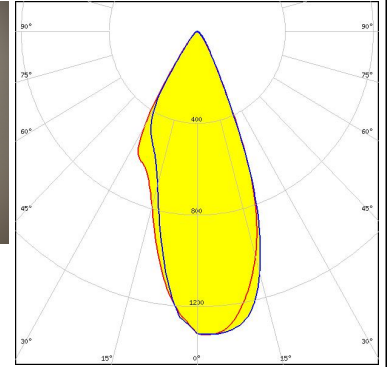
##### CREE LED

LED XP-G3  
 FWHM / FWTM 47.0° / 68.0°  
 Efficiency 87 %  
 Peak intensity 1.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



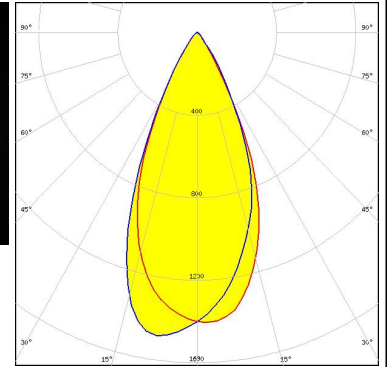
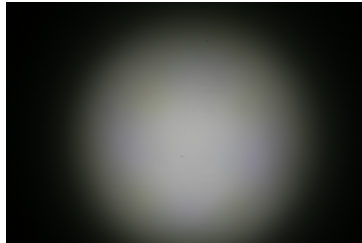
##### CREE LED

LED XQ-E HD  
 FWHM / FWTM 39.0° / 68.0°  
 Efficiency 72 %  
 Peak intensity 1.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



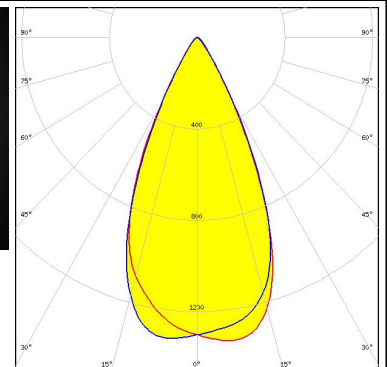
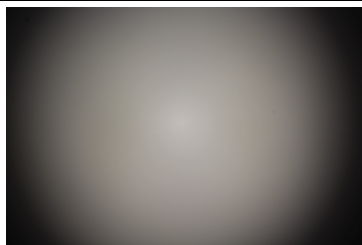
##### CREE LED

LED XT-E  
 FWHM / FWTM 46.0° / 70.0°  
 Efficiency 87 %  
 Peak intensity 1.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:

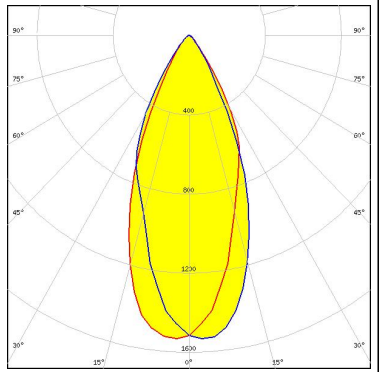

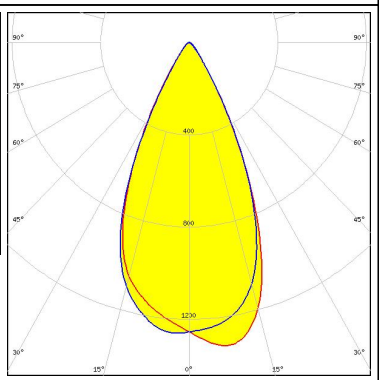


##### LUMILEDS

LED LUXEON V2  
 FWHM / FWTM 49.0° / 70.0°  
 Efficiency 89 %  
 Peak intensity 1.4 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



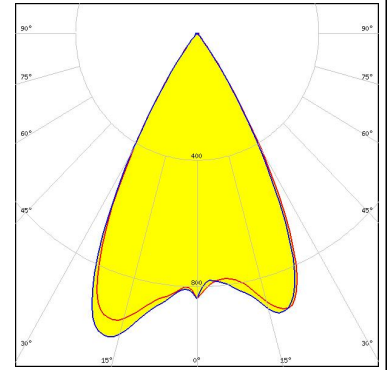
#### OPTICAL RESULTS (MEASURED):

<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED                    Z5</p> <p>FWHM / FWTM      40.0° / 75.0°</p> <p>Efficiency            89 %</p> <p>Peak intensity      1.5 cd/m</p> <p>LEDs/each optic    1</p> <p>Light colour        White</p> <p>Required components:</p>		
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED                    Z5M3</p> <p>FWHM / FWTM      49.0° / 71.0°</p> <p>Efficiency            86 %</p> <p>Peak intensity      1.3 cd/m</p> <p>LEDs/each optic    1</p> <p>Light colour        White</p> <p>Required components:</p>		

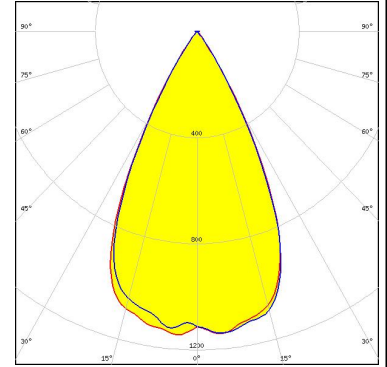
#### OPTICAL RESULTS (SIMULATED):



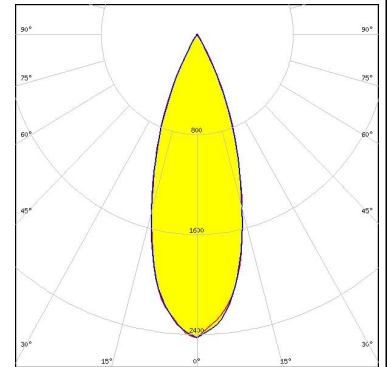
LED XP-G2 HE  
 FWHM / FWTM 58.0° / 73.0°  
 Efficiency 81 %  
 Peak intensity 1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



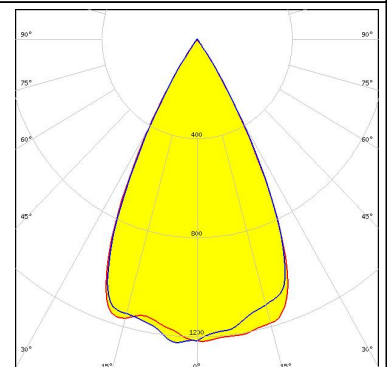
LED XP-G3  
 FWHM / FWTM 54.0° / 70.0°  
 Efficiency 84 %  
 Peak intensity 1.2 cd/lm  
 LEDs/each optic 1  
 Light colour Royal Blue  
 Required components:



LED NVSxE21A  
 FWHM / FWTM 34.6° / 57.8°  
 Efficiency 90 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



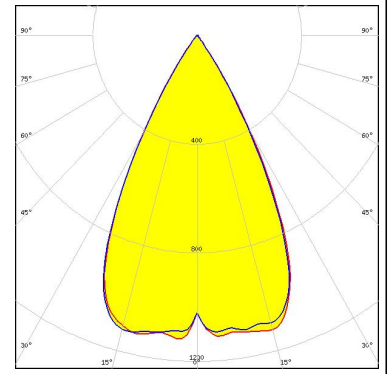
LED OSLOM Square CSSRM2/CSSRM3  
 FWHM / FWTM 54.0° / 68.0°  
 Efficiency 91 %  
 Peak intensity 1.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



## OPTICAL RESULTS (SIMULATED):

### SAMSUNG

LED	LH351B
FWHM / FWTM	56.0° / 71.0°
Efficiency	88 %
Peak intensity	1.2 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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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