

## TINA-M

~30° medium beam optimized for LUXEON Rebel. Assembly with holder, installation tape and location pins.

### SPECIFICATION:

Dimensions	Ø 16.1 mm
Height	9.4 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

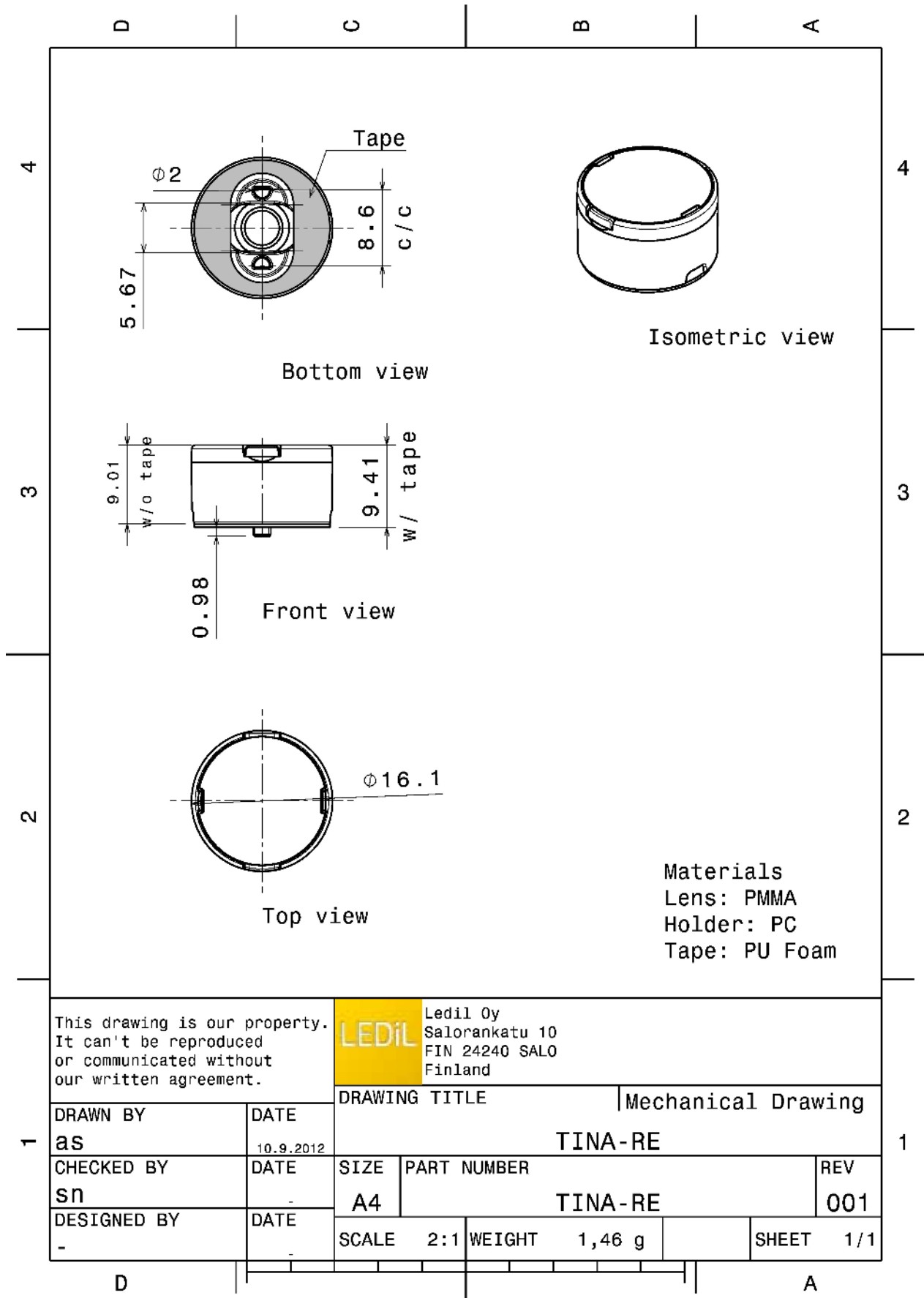


### MATERIALS:

Component	Type	Material	Colour	Finish
TINA-M	Single lens	PMMA	clear	
TINA-H-TAPE-RE-BLK	Holder	PC	black	
TINA-TAPE3	Tape	Acrylic foam	black	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FA11210_TINA-M	Single lens	2016	288	144	4.1
» Box size:					

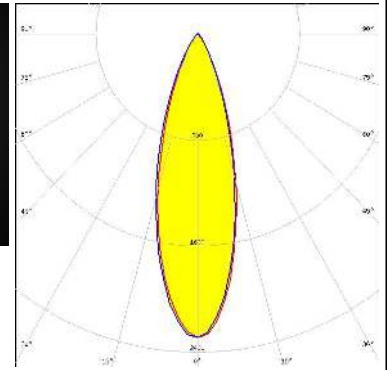
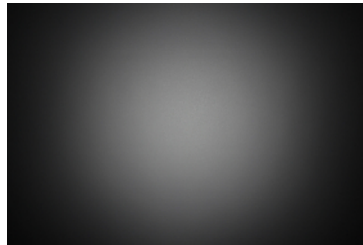


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

### OPTICAL RESULTS (MEASURED):

#### CREE LED

LED XB-H  
 FWHM / FWTM 30.0° / 58.0°  
 Efficiency 81 %  
 Peak intensity 2.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

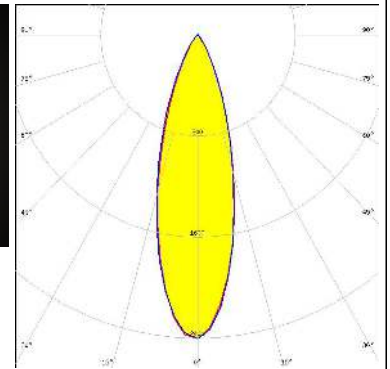
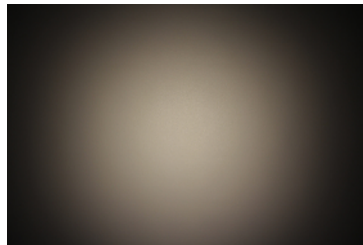


#### LUMILEDS

LED LUXEON Rebel  
 FWHM / FWTM 28.0° / 54.0°  
 Efficiency 83 %  
 Peak intensity 1.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

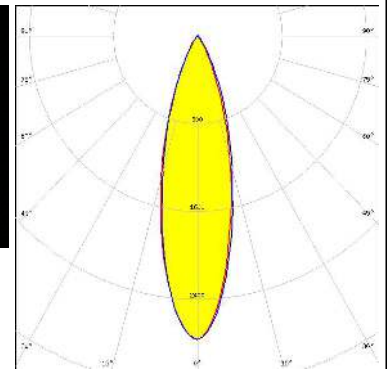
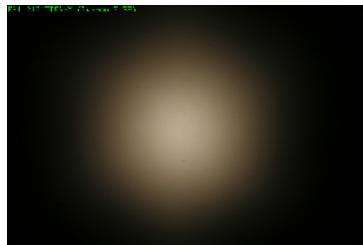
#### LUMILEDS

LED LUXEON TX  
 FWHM / FWTM 31.0° / 59.0°  
 Efficiency 82 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

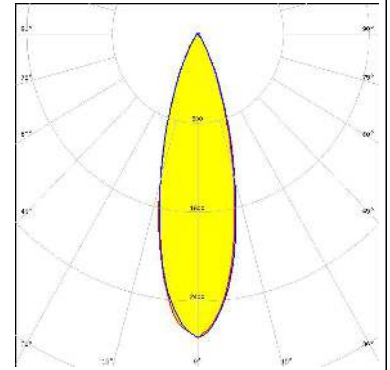
LED LUXEON Z ES  
 FWHM / FWTM 29.0° / 56.0°  
 Efficiency 84 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):

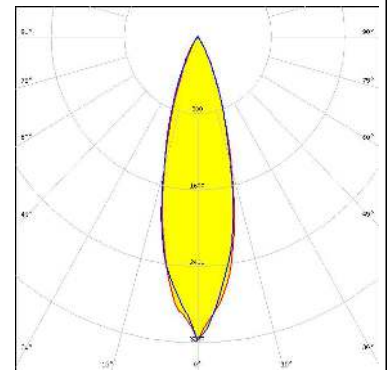
#### CREE LED

LED XB-D  
 FWHM / FWTM 30.0° / 56.0°  
 Efficiency 87 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



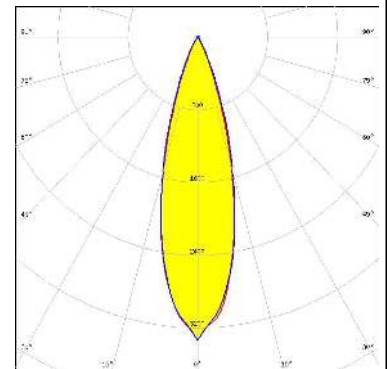
#### LUMILEDS

LED LUXEON H50-2  
 FWHM / FWTM 28.0° / 53.0°  
 Efficiency 90 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



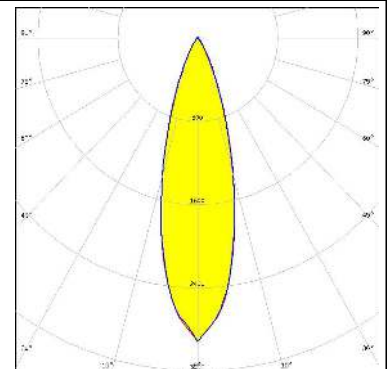
#### LUMILEDS

LED LUXEON HL1Z  
 FWHM / FWTM 28.0° / 48.0 + 51.0°  
 Efficiency 90 %  
 Peak intensity 3.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### LUMILEDS

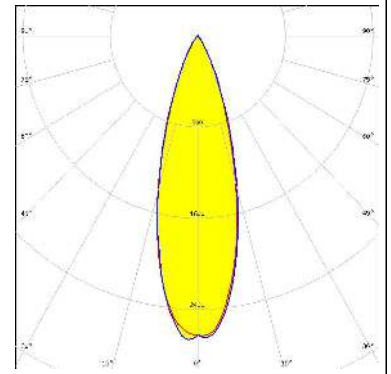
LED LUXEON HL2Z  
 FWHM / FWTM 28.0° / 54.0°  
 Efficiency 89 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):



LED	LUXEON T
FWHM / FWTM	30.0° / 55.0°
Efficiency	90 %
Peak intensity	2.7 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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