

## TINA-Y-O

~45° + 15° oval beam. Assembly with holder, installation tape and pins.

### SPECIFICATION:

Dimensions	Ø 16.1 mm
Height	10 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

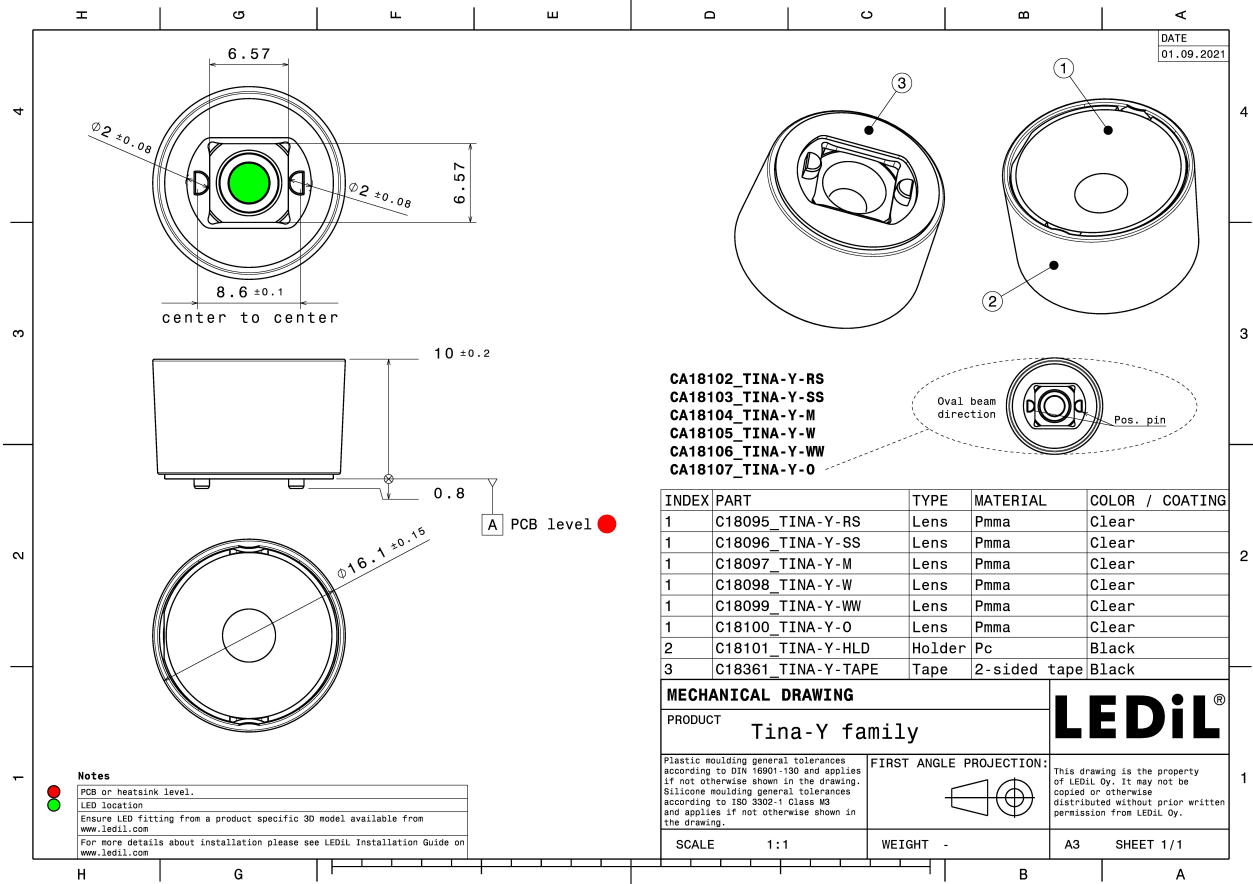
### MATERIALS:

Component	Type	Material	Colour	Finish
TINA-Y-O	Single lens	PMMA	clear	gloss
TINA-Y-HLD	Holder	PC	black	gloss
TINA-Y-TAPE	Tape	Acrylic foam		

### ORDERING INFORMATION:



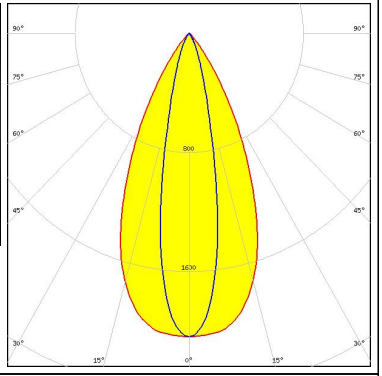

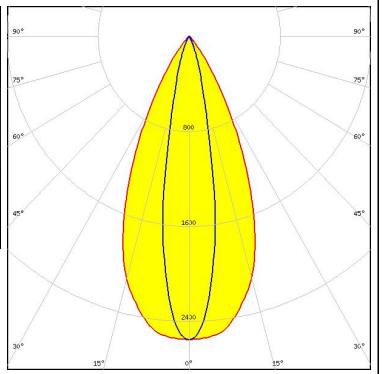
Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA18107_TINA-Y-O » Box size: 476 x 273 x 197 mm	3900	300	300	6.5





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

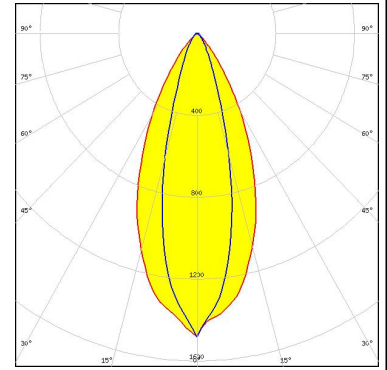
### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b>  <b>LED</b></p> <p>LED                    XP-G3 FWHM / FWTM        49.0 + 22.0° / 76.0 + 44.0° Efficiency            74 % Peak intensity        2 cd/lm LEDs/each optic     1 Light colour         White Required components:</p>		
<p><b>NICHIA</b></p> <p>LED                    NVSW719AC FWHM / FWTM        47.0 + 20.0° / 73.0 + 38.0° Efficiency            79 % Peak intensity        2.6 cd/lm LEDs/each optic     1 Light colour         White Required components:</p>		

#### OPTICAL RESULTS (SIMULATED):

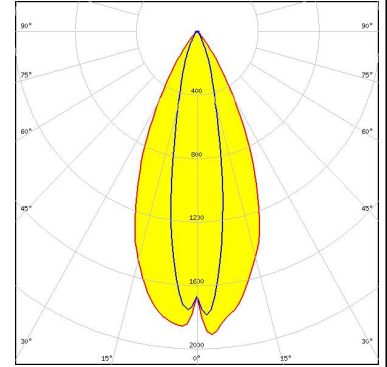
##### CREE LED

LED XHP35.2 HD  
 FWHM / FWTM 46.0 + 27.0° / 80.0 + 54.0°  
 Efficiency 69 %  
 Peak intensity 1.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



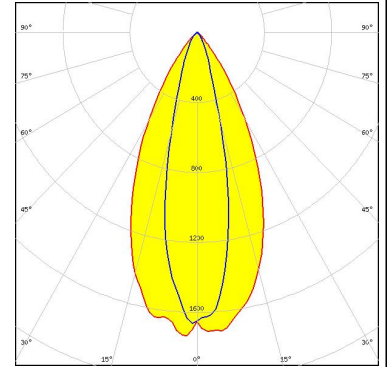
##### CREE LED

LED XHP35.2 HI  
 FWHM / FWTM 46.0 + 22.0° / 73.0 + 47.0°  
 Efficiency 69 %  
 Peak intensity 1.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



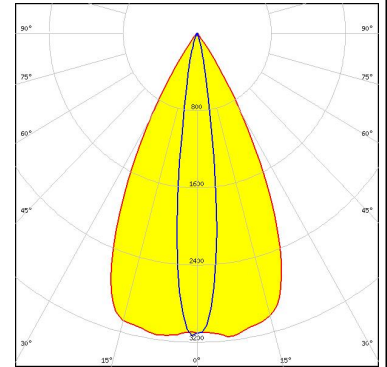
##### CREE LED

LED XM-L3  
 FWHM / FWTM 24.0 + 50.0°  
 Efficiency 73 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### CREE LED

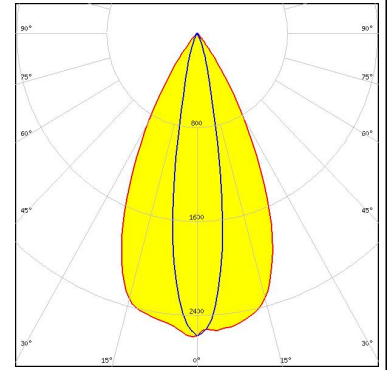
LED XP-E2  
 FWHM / FWTM 15.0 + 52.0°  
 Efficiency 81 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



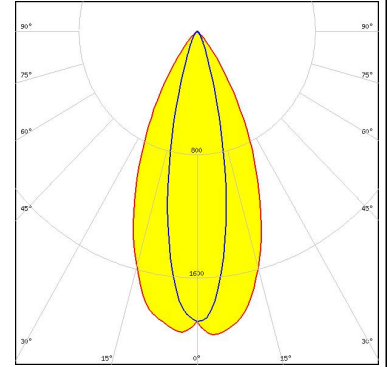
### OPTICAL RESULTS (SIMULATED):



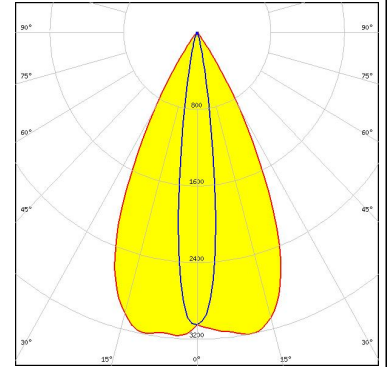
LED XP-G2  
 FWHM / FWTM 19.0 + 51.0°  
 Efficiency 80 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



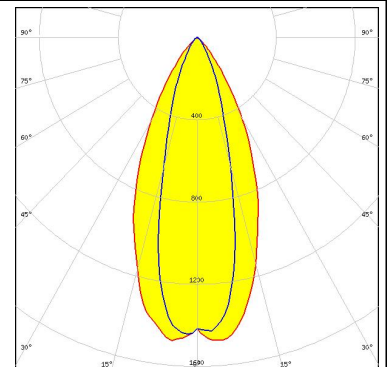
LED XP-L HD  
 FWHM / FWTM 48.0 + 24.0° / 76.0 + 44.0°  
 Efficiency 77 %  
 Peak intensity 2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



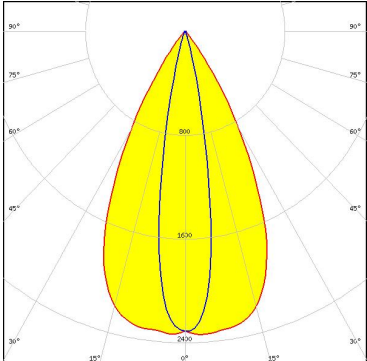
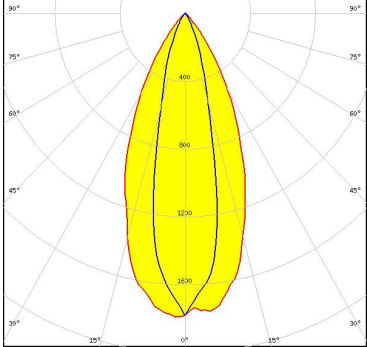
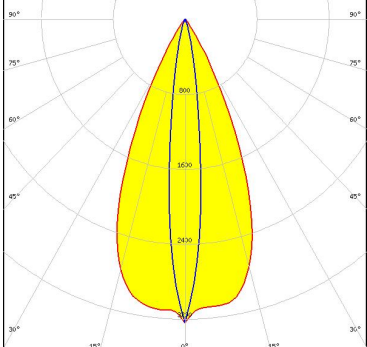
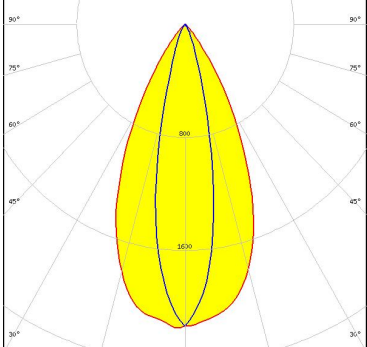
LED XQ-E HI  
 FWHM / FWTM 52.0 + 14.0° / 70.0 + 26.0°  
 Efficiency 80 %  
 Peak intensity 3.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON 5050 Round LES  
 FWHM / FWTM 27.0 + 47.0°  
 Efficiency 74 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (SIMULATED):

<p><b>LUMILEDS</b></p> <p>LED: LUXEON C</p> <p>FWHM / FWTM: 54.0 + 18.0° / 74.0 + 32.0°</p> <p>Efficiency: 75 %</p> <p>Peak intensity: 2.4 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED: LUXEON MZ</p> <p>FWHM / FWTM: 23.0 + 46.0°</p> <p>Efficiency: 73 %</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NCSxE17A</p> <p>FWHM / FWTM: 46.0 + 12.0° / 66.0 + 28.0°</p> <p>Efficiency: 73 %</p> <p>Peak intensity: 3.2 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NVSW219F</p> <p>FWHM / FWTM: 50.0 + 22.0° / 76.0 + 42.0°</p> <p>Efficiency: 79 %</p> <p>Peak intensity: 2.2 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

### OPTICAL RESULTS (SIMULATED):

<p><b>NICHIA</b></p> <p>LED: NVSxE21A            FWHM / FWTM: 44.0 + 20.0° / 70.0 + 38.0°            Efficiency: 71 %            Peak intensity: 2.3 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: OSOLON Square CSSRM2/CSSRM3            FWHM / FWTM: 50.0 + 20.0° / 74.0 + 39.0°            Efficiency: 79 %            Peak intensity: 2.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>SAMSUNG</b></p> <p>LED: LH351C            FWHM / FWTM: 22.0 + 49.0°            Efficiency: 80 %            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: Z5M4            FWHM / FWTM: 46.0 + 20.0° / 72.0 + 42.0°            Efficiency: 78 %            Peak intensity: 2.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

### 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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