

TINA-Y-SS

~16° smooth spot beam. Assembly with holder, installation tape and pins.

SPECIFICATION:

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

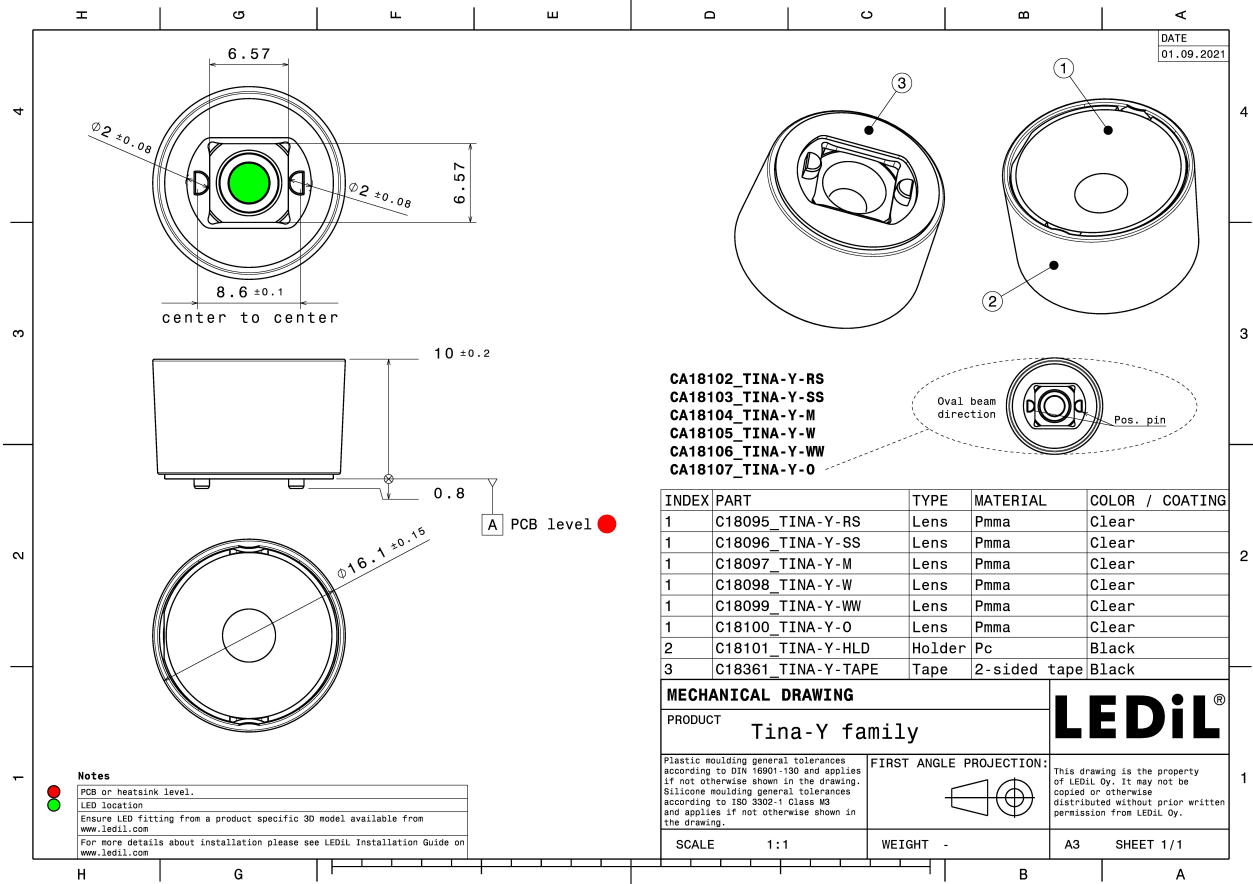
MATERIALS:

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

ORDERING INFORMATION:


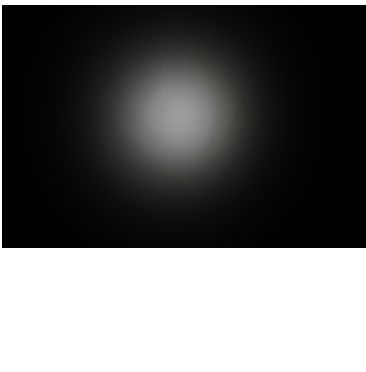
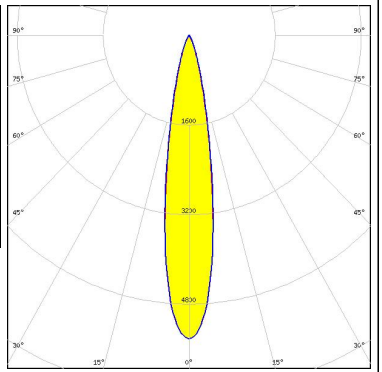

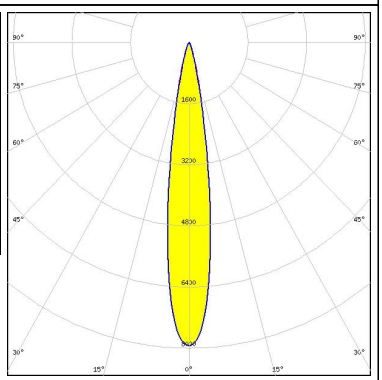
Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA18103_TINA-Y-SS » Box size: 476 x 273 x 197 mm	3900	300	300	5.7




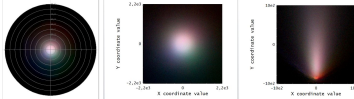
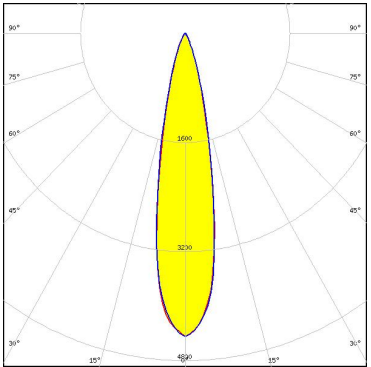

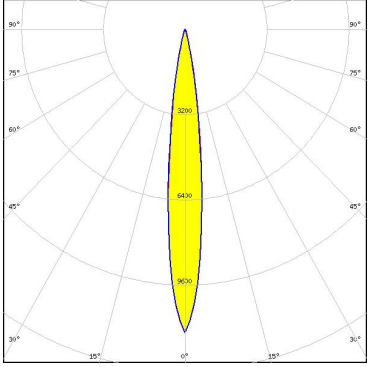

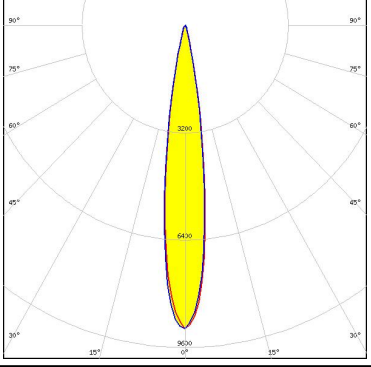

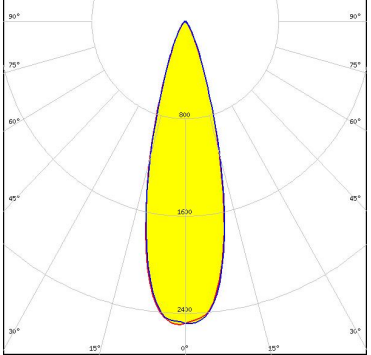


See also our general installation guide: www.ledil.com/installation_guide

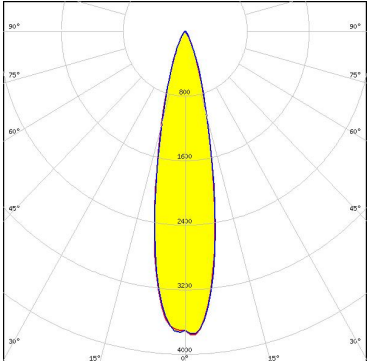
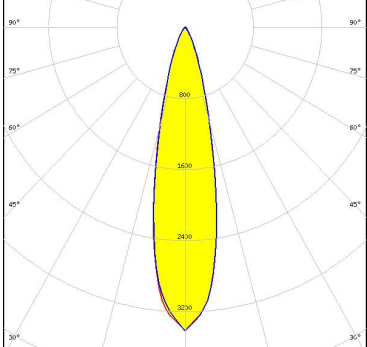
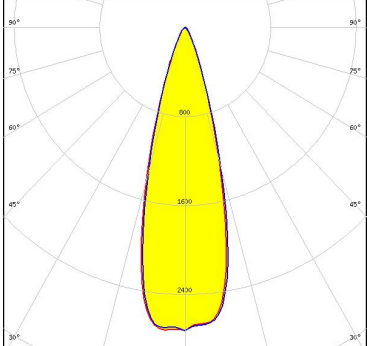
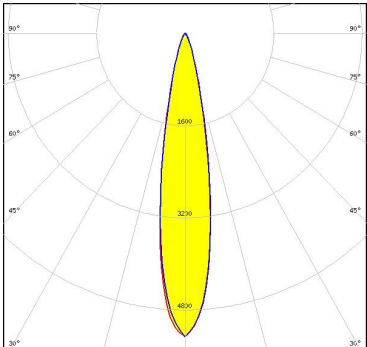
OPTICAL RESULTS (MEASURED):

<p>CREE  LED</p> <p>LED: XP-G3 FWHM / FWTM: 18.0° / 37.0° Efficiency: 81 % Peak intensity: 5.4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>NICHIA</p> <p>LED: NVSW719AC FWHM / FWTM: 17.0° / 31.0° Efficiency: 87 % Peak intensity: 7.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>		

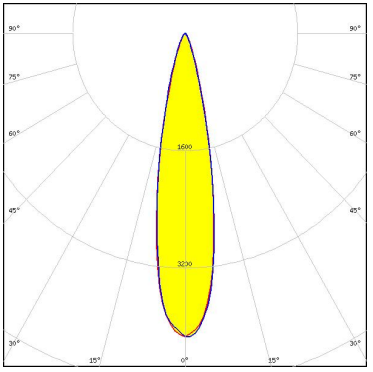
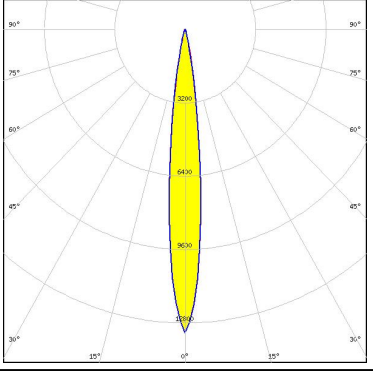
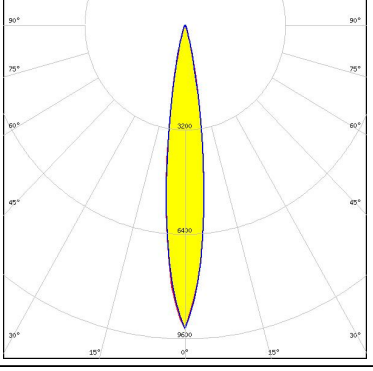
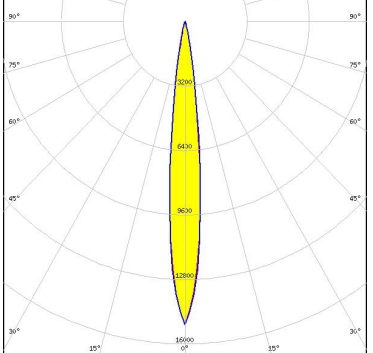
OPTICAL RESULTS (SIMULATED):

	<p>LED CLR6A-TKW FWHM / FWTM 21.0° / 42.0° Efficiency 86 % Peak intensity 4.5 cd/lm LEDs/each optic 1 Light colour RGBW Required components:</p>		
	<p>LED XD16 Premium FWHM / FWTM 14.0° / 26.0° Efficiency 86 % Peak intensity 11.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
	<p>LED XE-G FWHM / FWTM 16.0° / 28.0° Efficiency 87 % Peak intensity 9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
	<p>LED XHP35.2 HD FWHM / FWTM 28.0° / 52.0° Efficiency 75 % Peak intensity 2.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (SIMULATED):

<p>CREE → LED</p> <p>LED: XHP35.2 HI FWHM / FWTM: 22.0° / 46.0° Efficiency: 83 % Peak intensity: 3.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE → LED</p> <p>LED: XHP50.3 HI FWHM / FWTM: 24.0° / 48.0° Efficiency: 82 % Peak intensity: 3.4 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>CREE → LED</p> <p>LED: XM-L RGBW (XMLDCL HD) FWHM / FWTM: 30.0° / 50.0° Efficiency: 85 % Peak intensity: 2.7 cd/lm LEDs/each optic: 1 Light colour: RGBW Required components:</p>	
<p>CREE → LED</p> <p>LED: XM-L RGBW (XMLDCL HI) FWHM / FWTM: 20.0° / 38.0° Efficiency: 85 % Peak intensity: 5.3 cd/lm LEDs/each optic: 1 Light colour: RGBW Required components:</p>	

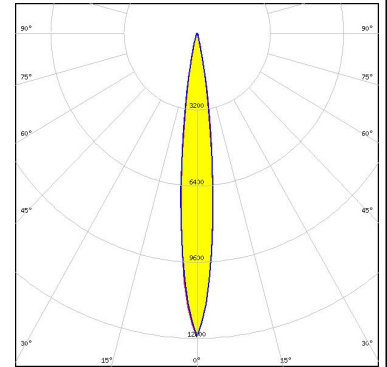
OPTICAL RESULTS (SIMULATED):

<p>CREE → LED</p> <p>LED XM-L3 FWHM / FWTM 21.0° / 42.0° Efficiency 80 % Peak intensity 4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>CREE → LED</p> <p>LED XP-E2 FWHM / FWTM 12.0° / 24.0° Efficiency 88 % Peak intensity 13 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>CREE → LED</p> <p>LED XP-G2 FWHM / FWTM 15.0° / 28.0° Efficiency 87 % Peak intensity 9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>CREE → LED</p> <p>LED XP-P FWHM / FWTM 12.0° / 22.0° Efficiency 89 % Peak intensity 15.1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

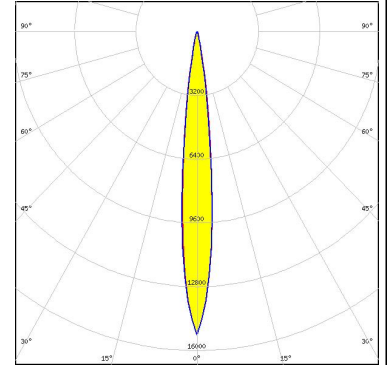
OPTICAL RESULTS (SIMULATED):



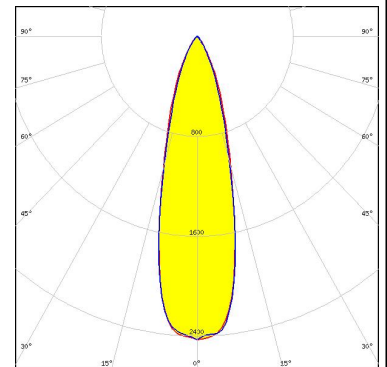
LED XQ-E HD
 FWHM / FWTM 12.0° / 24.0°
 Efficiency 87 %
 Peak intensity 12.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



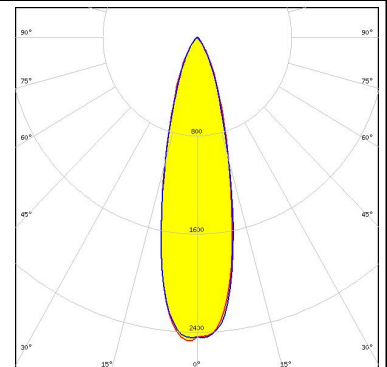
LED XQ-E HI
 FWHM / FWTM 12.0° / 22.0°
 Efficiency 87 %
 Peak intensity 15.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON 5050 Round LES
 FWHM / FWTM 28.0° / 56.0°
 Efficiency 80 %
 Peak intensity 2.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON 5050 Square LES
 FWHM / FWTM 26.0° / 56.0°
 Efficiency 78 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED: LUXEON C</p> <p>FWHM / FWTM: 14.0° / 26.0°</p> <p>Efficiency: 79 %</p> <p>Peak intensity: 10.8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON MZ</p> <p>FWHM / FWTM: 24.0° / 47.0°</p> <p>Efficiency: 81 %</p> <p>Peak intensity: 3.4 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>LUMILEDS</p> <p>LED: LUXEON TX</p> <p>FWHM / FWTM: 15.0° / 30.0°</p> <p>Efficiency: 84 %</p> <p>Peak intensity: 8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED: NV4WB35AM</p> <p>FWHM / FWTM: 24.0° / 46.0°</p> <p>Efficiency: 85 %</p> <p>Peak intensity: 3.7 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

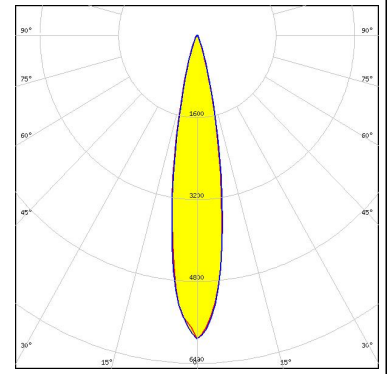
OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED: NVSW219F FWHM / FWTM: 18.0° / 33.0° Efficiency: 87 % Peak intensity: 6.6 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>NICHIA</p> <p>LED: NVSxE21A FWHM / FWTM: 16.0° / 34.0° Efficiency: 79 % Peak intensity: 7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED: OSOLON Square CSSRM2/CSSRM3 FWHM / FWTM: 16.0° / 32.0° Efficiency: 86 % Peak intensity: 7.5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED: OSOLON SSL 150 FWHM / FWTM: 13.0° / 25.0° Efficiency: 88 % Peak intensity: 13 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

SAMSUNG

LED	LH351C
FWHM / FWTM	19.0° / 36.0°
Efficiency	87 %
Peak intensity	5.9 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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