

## TINA2-D

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

### SPECIFICATION:

Dimensions	Ø 16.0 mm
Height	9.5 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

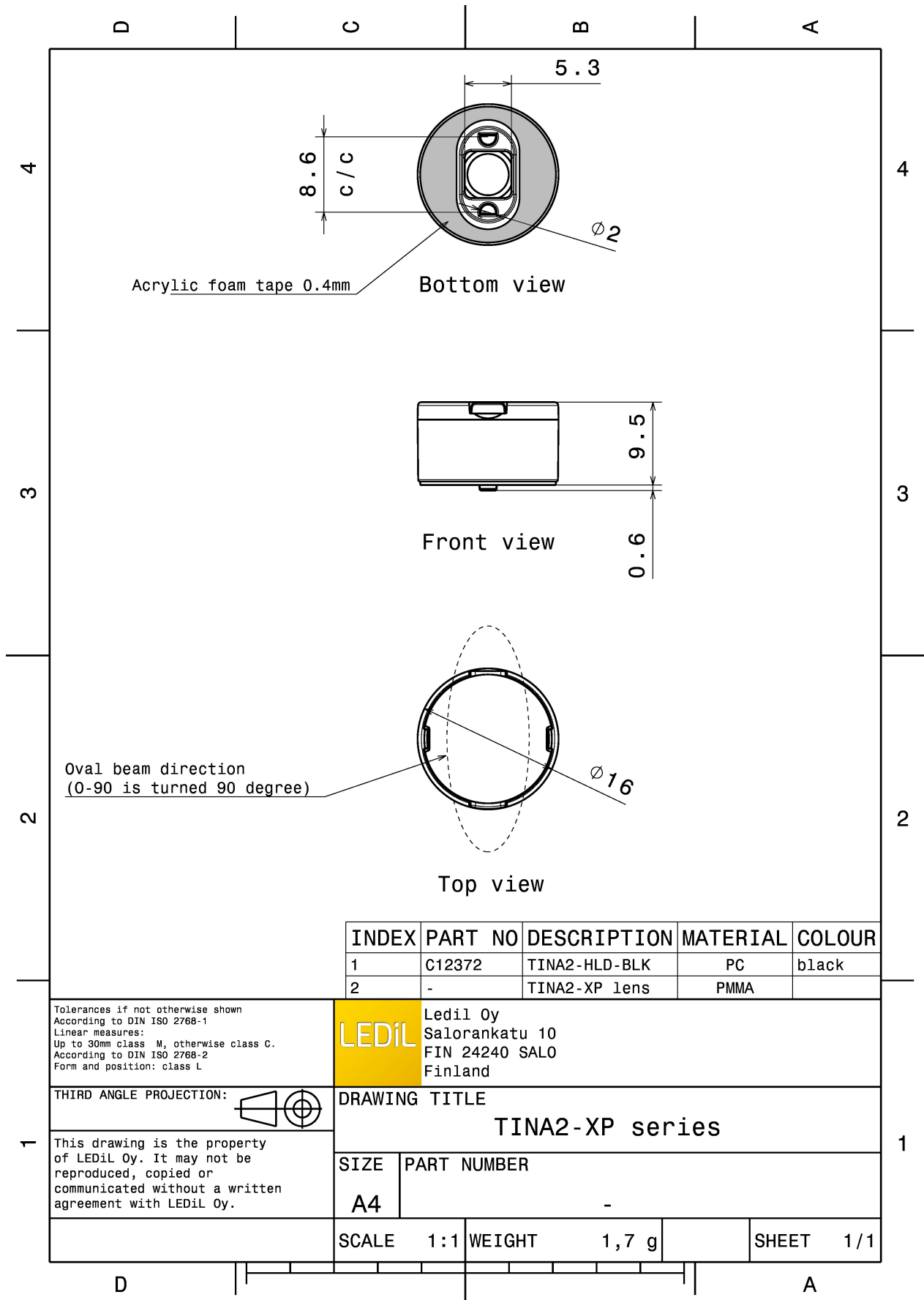


### MATERIALS:

Component	Type	Material	Colour	Finish
TINA2-XP-D	Single lens	PMMA	clear	
TINA2-HLD-BLK	Holder	PC	black	
TINA-TAPE3	Tape	Acrylic foam	black	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12375_TINA2-D	Single lens	4140	230	230	8.1
» Box size: 451 x 241 x 298 mm					

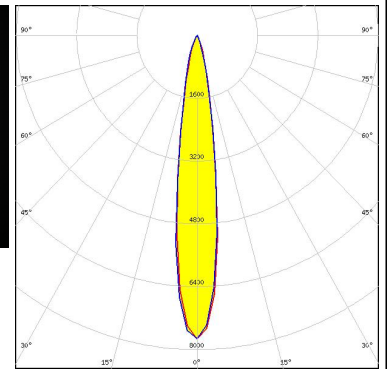
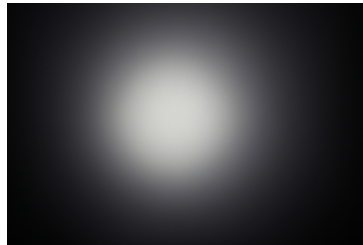


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

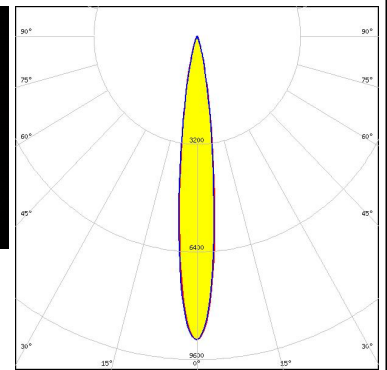
### OPTICAL RESULTS (MEASURED):



LED XB-H  
 FWHM / FWTM 16.0° / 34.0°  
 Efficiency 86 %  
 Peak intensity 7.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



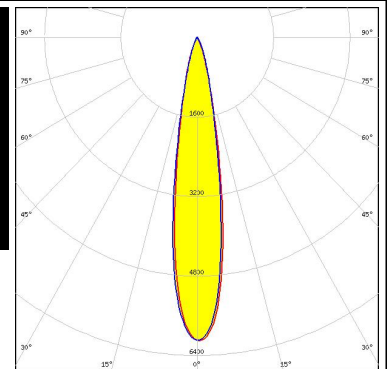
LED XD16  
 FWHM / FWTM 14.0° / 29.0°  
 Efficiency 82 %  
 Peak intensity 9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED LUXEON Z ES  
 FWHM / FWTM 12.0° / 27.0°  
 Efficiency %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



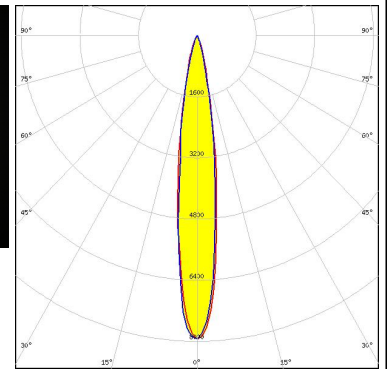
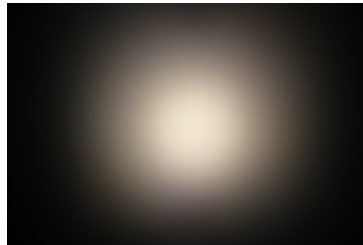
LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 18.0° / 36.0°  
 Efficiency 87 %  
 Peak intensity 6.1 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



### OPTICAL RESULTS (MEASURED):

#### OSRAM Opto Semiconductors

LED OSLON Square EC  
 FWHM / FWTM 16.0° / 33.0°  
 Efficiency 82 %  
 Peak intensity 7.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM Opto Semiconductors

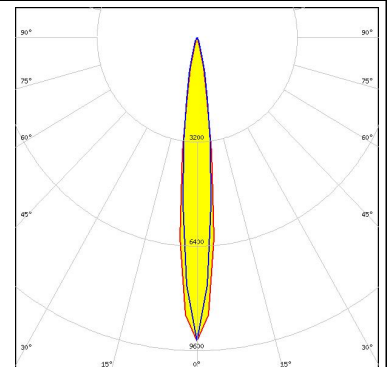
LED OSLON Square EC  
 FWHM / FWTM 16.0° / 34.0°  
 Efficiency 87 %  
 Peak intensity 6.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

#### OSRAM Opto Semiconductors

LED OSLON Square PC  
 FWHM / FWTM 13.0° / 32.0°  
 Efficiency 87 %  
 Peak intensity 6.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

#### OSRAM Opto Semiconductors

LED OSLON SSL 150  
 FWHM / FWTM 14.0° / 28.0°  
 Efficiency 89 %  
 Peak intensity 9.3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

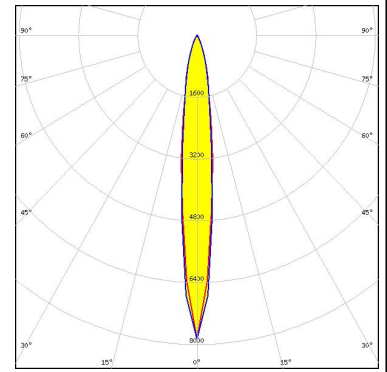


### OPTICAL RESULTS (MEASURED):

#### OSRAM

Opto Semiconductors

LED OSLOM SSL 80  
 FWHM / FWTM 12.0° / 35.0°  
 Efficiency 87 %  
 Peak intensity 7.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

Opto Semiconductors

LED SFH 4170S  
 FWHM / FWTM 8.0° / 20.0°  
 Efficiency %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:

#### OSRAM

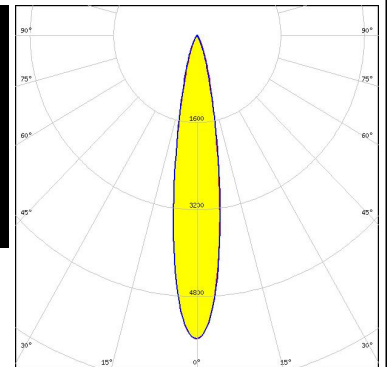
Opto Semiconductors

LED SFH 4180S  
 FWHM / FWTM 8.0° / 20.0°  
 Efficiency %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



SEOUL SEMICONDUCTOR

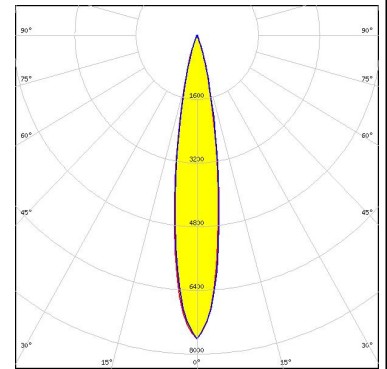
LED Z5M3  
 FWHM / FWTM 18.0° / 38.0°  
 Efficiency 86 %  
 Peak intensity 5.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



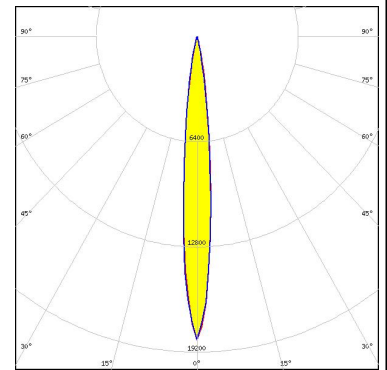
### OPTICAL RESULTS (SIMULATED):



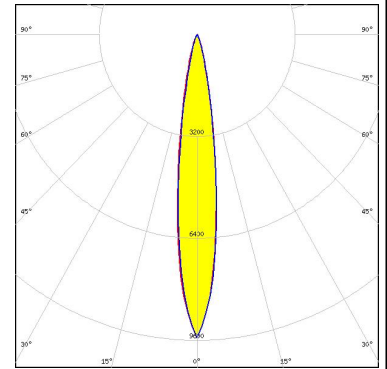
LED XB-D  
 FWHM / FWTM 18.0° / 34.0°  
 Efficiency 88 %  
 Peak intensity 7.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



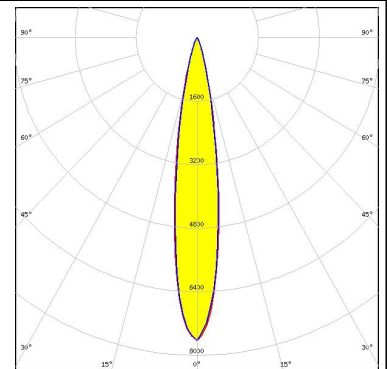
LED XQ-E HI  
 FWHM / FWTM 11.0° / 23.0°  
 Efficiency 91 %  
 Peak intensity 18.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:




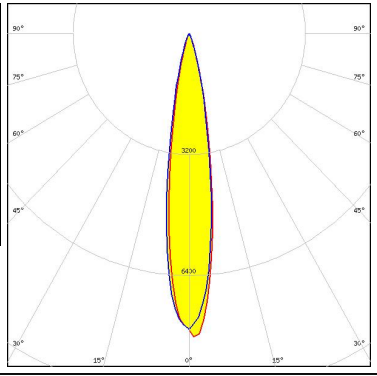
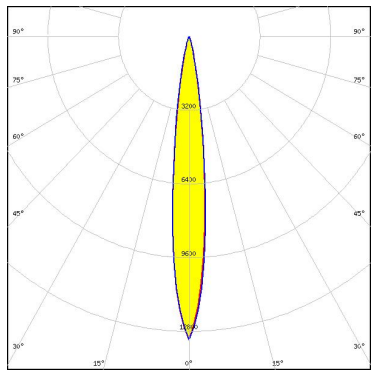
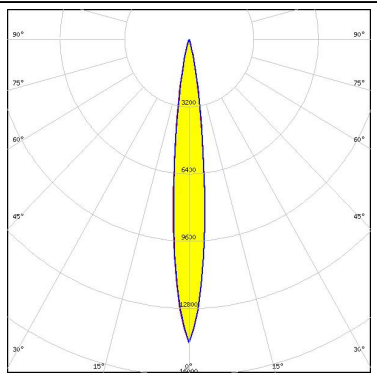

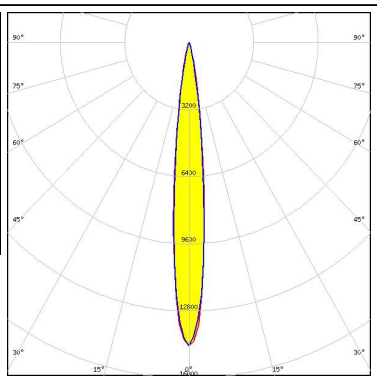
LED LUXEON 2835 Line  
 FWHM / FWTM 15.0° / 31.0°  
 Efficiency 96 %  
 Peak intensity 9.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED Duris E 2835  
 FWHM / FWTM 17.0° / 34.0°  
 Efficiency 92 %  
 Peak intensity 7.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (SIMULATED):

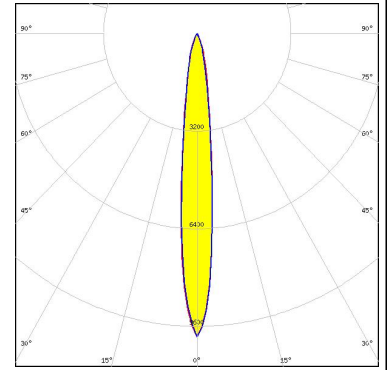
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED Duris S5 (2 chip)</p> <p>FWHM / FWTM 17.0° / 33.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSCONIQ P 3030</p> <p>FWHM / FWTM 12.0° / 26.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 13.2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Blue</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON Signal</p> <p>FWHM / FWTM 12.0° / 26.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 14.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Blue</p> <p>Required components:</p>		
<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED OSLON Square Flat</p> <p>FWHM / FWTM 12.0° / 24.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 14.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

### OPTICAL RESULTS (SIMULATED):

#### OSRAM

Opto Semiconductors

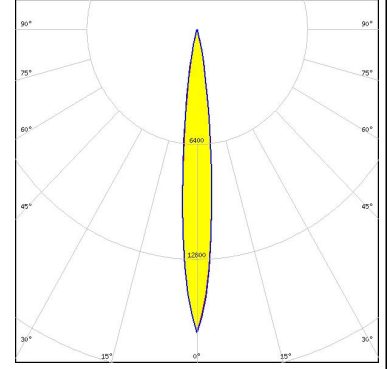
LED OSLOL SSL 80  
 FWHM / FWTM 12.0° / 31.0°  
 Efficiency 90 %  
 Peak intensity 9.9 cd/lm  
 LEDs/each optic 1  
 Light colour Far Red  
 Required components:



#### OSRAM

Opto Semiconductors

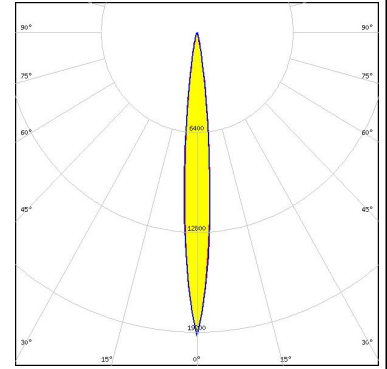
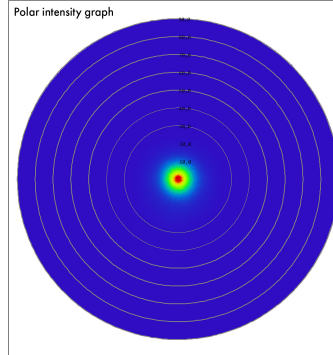
LED OSTAR Projection Compact (KW.CSLNM1.TG)  
 FWHM / FWTM 12.0° / 24.0°  
 Efficiency 92 %  
 Peak intensity 16.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OSRAM

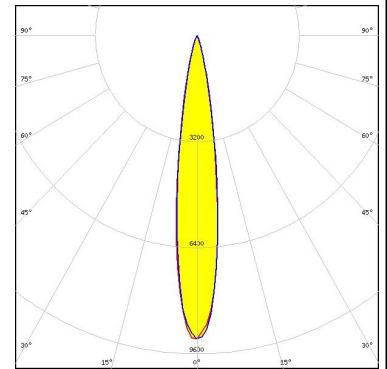
Opto Semiconductors

LED SFH 4770S  
 FWHM / FWTM 10.0° / 22.0°  
 Efficiency 91 %  
 LEDs/each optic 1  
 Light colour IR  
 Required components:



#### SAMSUNG

LED LH181B  
 FWHM / FWTM 16.0° / 30.5°  
 Efficiency 92 %  
 Peak intensity 9.2 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:





### OPTICAL RESULTS (SIMULATED):

