

## TINA2-SS

~20° smooth spot beam. Assembly with holder, installation tape and location pins.

### TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.0 mm
Height	9.3 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

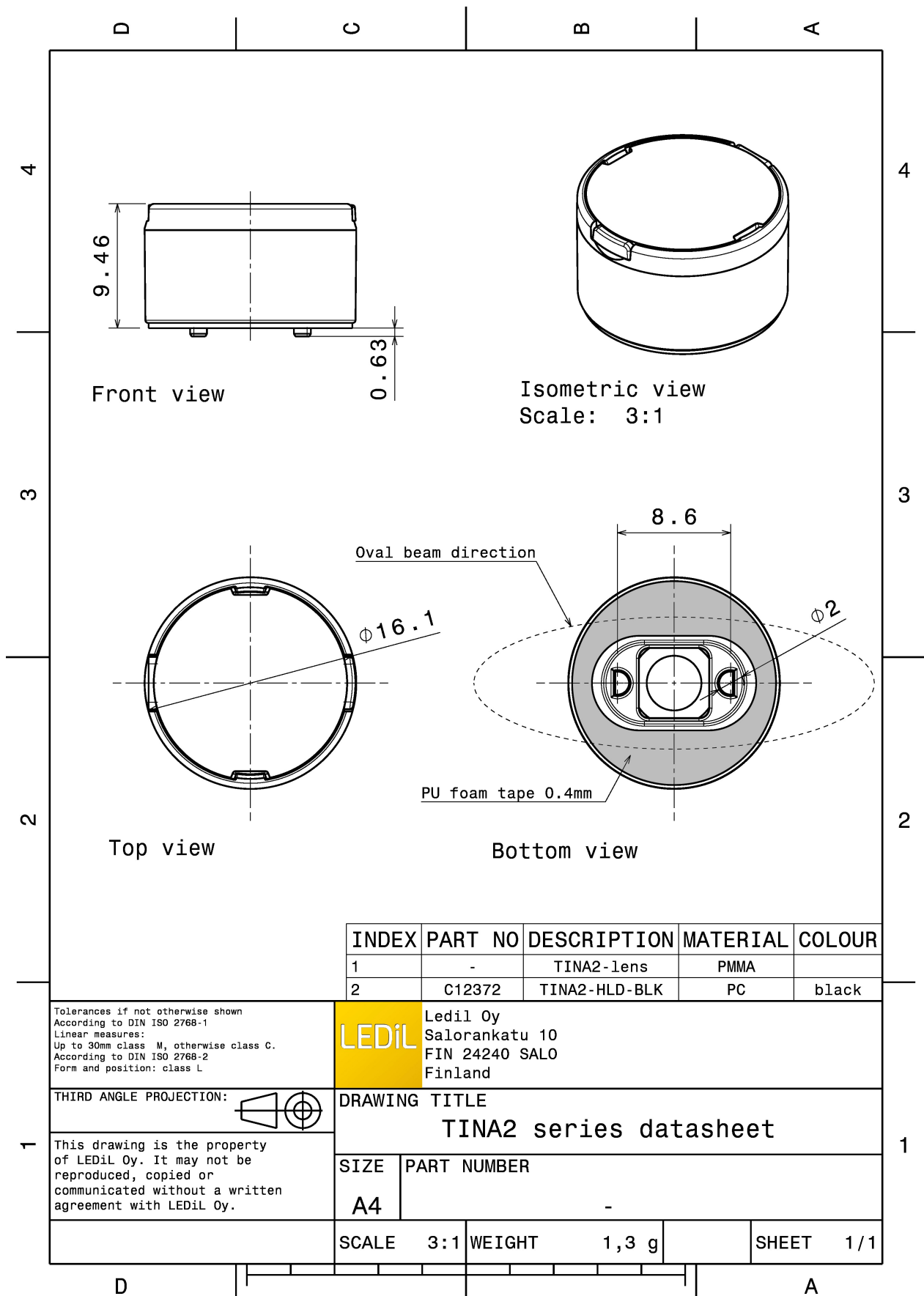
### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
TINA2-SS	Single lens	PMMA	clear	
TINA2-HLD-BLK	Holder	PC	black	
TINA-TAPE3	Tape	PU tape	black	

### ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12376_TINA2-SS	Single lens	4140	230	230	8.6
» Box size:					

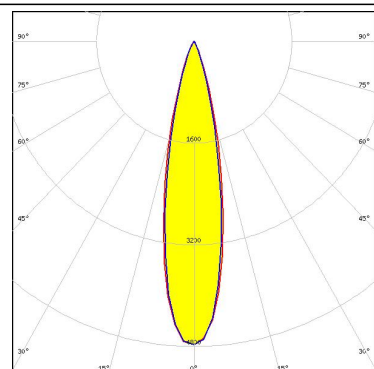
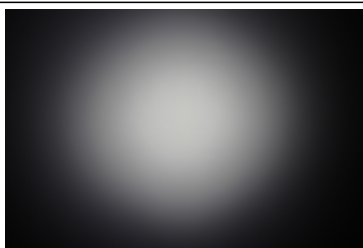




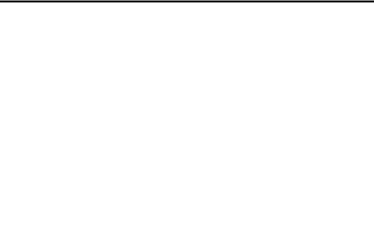
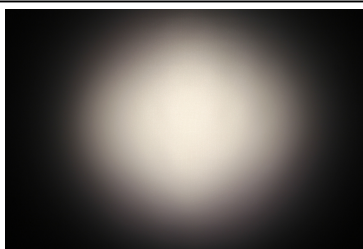
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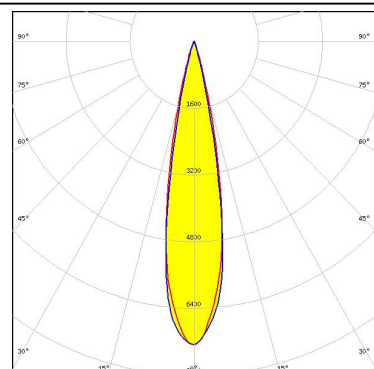
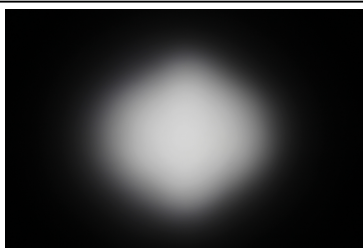
LED XB-H  
FWHM 22.0°  
Efficiency 87 %  
Peak intensity 4.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



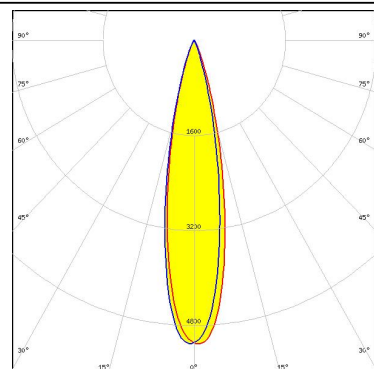
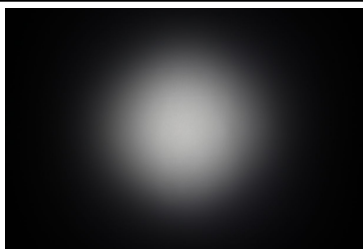
LED XQ-E HD  
FWHM 22.0°  
Efficiency 85 %  
Peak intensity 6.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON CZ  
FWHM 20.0°  
Efficiency 91 %  
Peak intensity 7.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



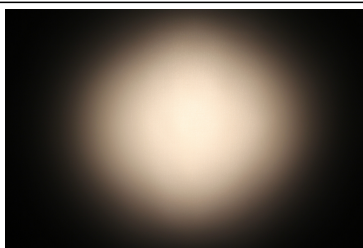
LED LUXEON TX  
FWHM 22.0°  
Efficiency 89 %  
Peak intensity 5.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### PHOTOMETRIC DATA (MEASURED):



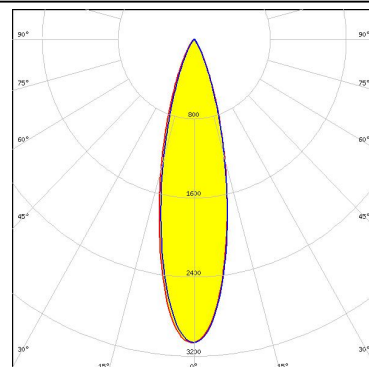
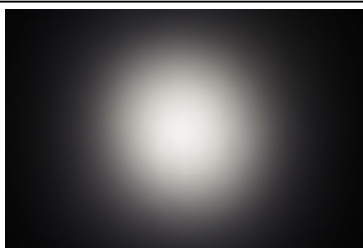
LED LUXEON Z ES  
FWHM 21.0°  
Efficiency 88 %  
Peak intensity 6.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



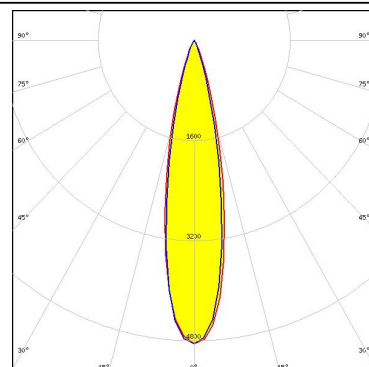
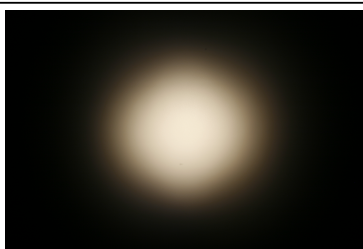
LED NVSxx19B/NVSxx19C  
FWHM 22.0°  
Efficiency 88 %  
Peak intensity 4.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED NWSx229A  
FWHM 26.0°  
Efficiency 86 %  
Peak intensity 3.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED OSOLON Square EC  
FWHM 23.0°  
Efficiency 85 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

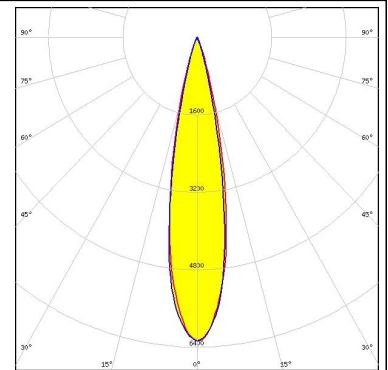
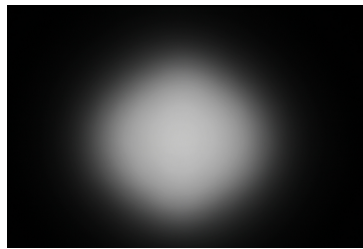




### PHOTOMETRIC DATA (MEASURED):

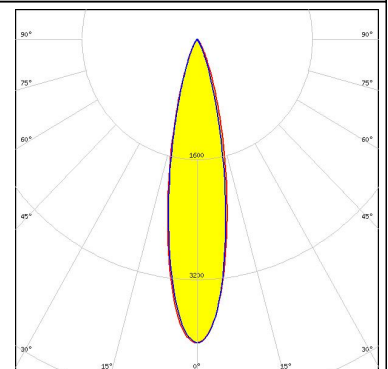
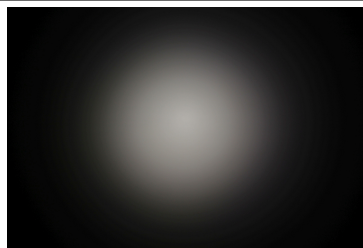
**OSRAM**  
Opto Semiconductors

LED OSLON SSL 150  
FWHM 22.0°  
Efficiency 89 %  
Peak intensity 6.3 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



**OSRAM**  
Opto Semiconductors

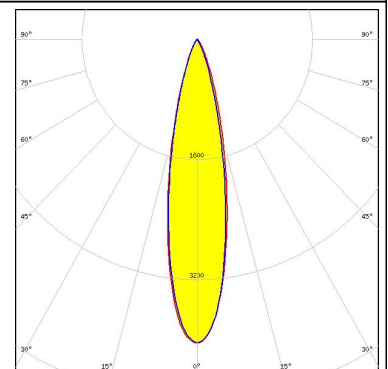
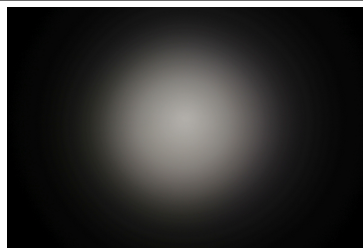
LED SFH 4725S  
FWHM 20.0°  
Efficiency %  
LEDs/each optic 1  
Light colour White  
Required components:



**SEOL**

SEOUL SEMICONDUCTOR

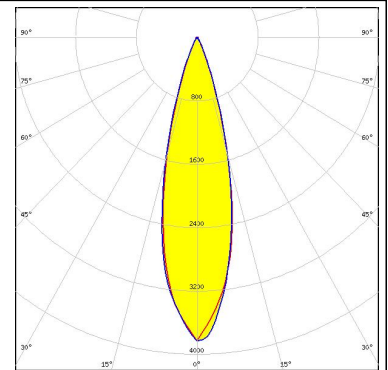
LED Z5M3  
FWHM 23.0°  
Efficiency 87 %  
Peak intensity 4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



### PHOTOMETRIC DATA (SIMULATED):



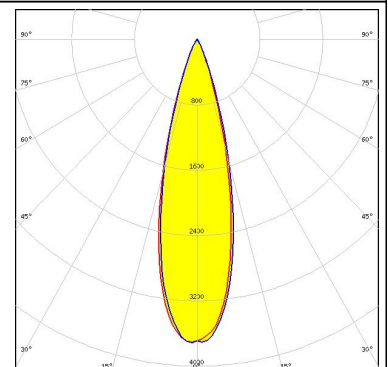
LED LUXEON C  
FWHM 26.0°  
Efficiency 93 %  
Peak intensity 3.8 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



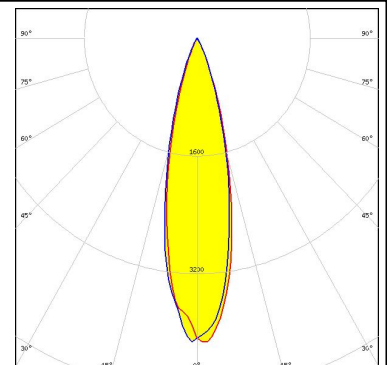
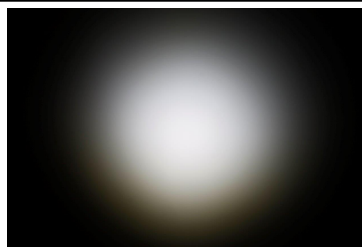
LED LUXEON IR Compact  
FWHM 26.0°  
Efficiency 84 %  
LEDs/each optic 1  
Light colour White  
Required components:



LED NFSx757G  
FWHM 27.0°  
Efficiency 92 %  
Peak intensity 3.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED Duris S5 (2 chip)  
FWHM 25.0°  
Efficiency 92 %  
Peak intensity 4.1 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

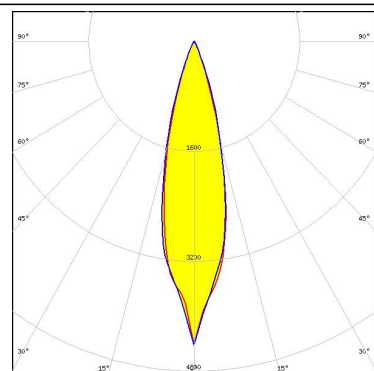


#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

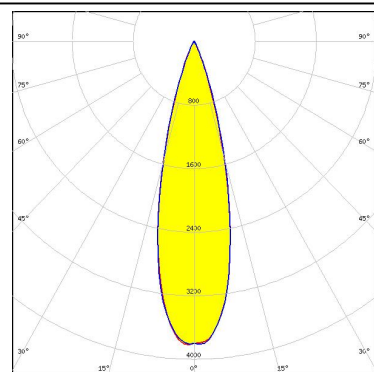
LED OSCONIQ P 3030  
FWHM 24.0°  
Efficiency 91 %  
Peak intensity 4.4 cd/lm  
LEDs/each optic 1  
Light colour Blue  
Required components:



##### OSRAM

Opto Semiconductors

LED OSLOM Square Flat  
FWHM 27.0°  
Efficiency 90 %  
Peak intensity 3.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



##### OSRAM

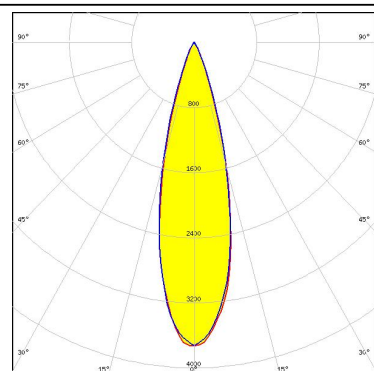
Opto Semiconductors

LED OSLOM SSL 80  
FWHM 26.0°  
Efficiency 91 %  
Peak intensity 3.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

##### OSRAM

Opto Semiconductors

LED OSLOM SSL 80  
FWHM 27.0°  
Efficiency 90 %  
Peak intensity 3.7 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



## PHOTOMETRIC DATA (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED	SFH 4715S
FWHM	23.0°
Efficiency	92 %
Peak intensity	6.9 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	

**OSRAM**  
Opto Semiconductors

LED	SFH 4770S
FWHM	24.0°
Efficiency	86 %
Peak intensity	4.1 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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