

TINA2-SS

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

SPECIFICATION:

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

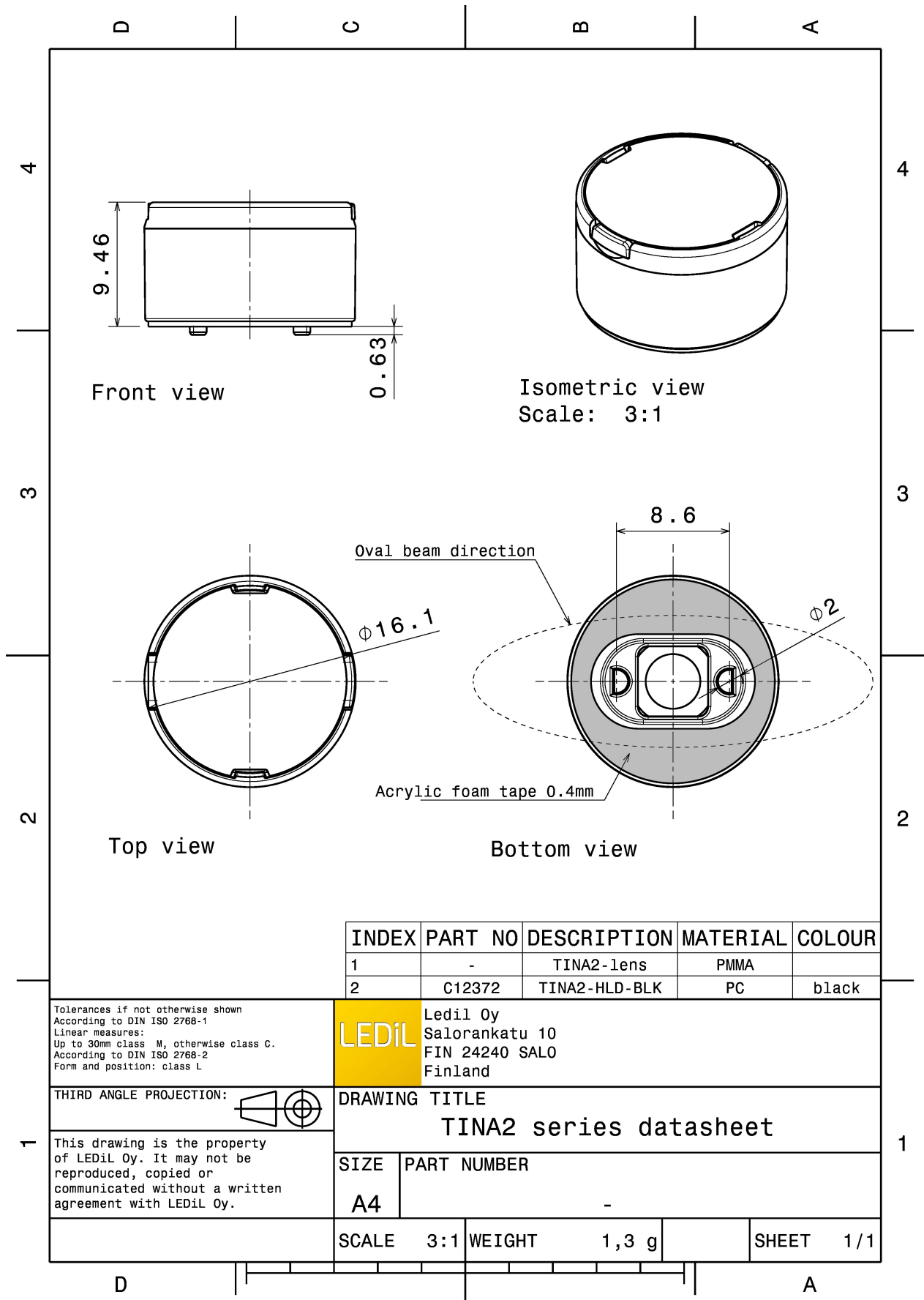
MATERIALS:

Component	Type	Material	Colour	Finish
TINA2-SS	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)
CA12376_TINA2-SS	Single lens	4140	230	230	8.6
» Box size:					

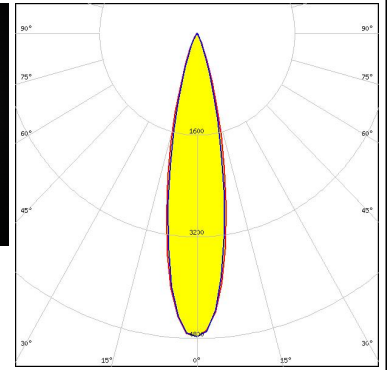
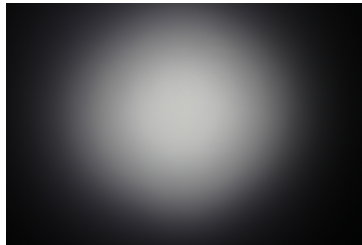


See also our general installation guide: www.ledil.com/installation_guide

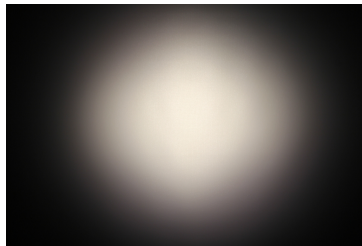
OPTICAL RESULTS (MEASURED):



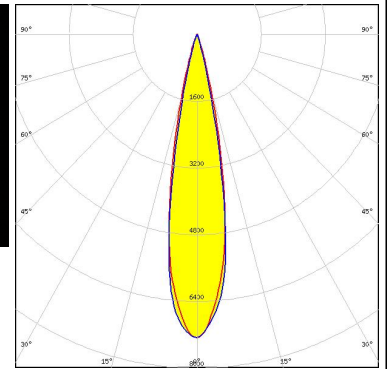
LED XB-H
 FWHM / FWTM 22.0° / 41.0°
 Efficiency 87 %
 Peak intensity 4.8 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



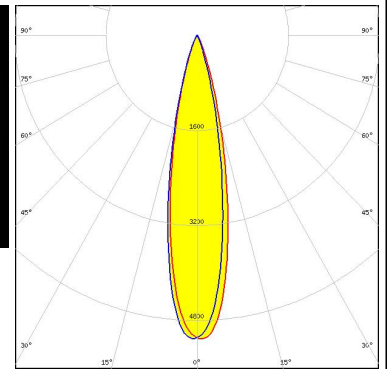
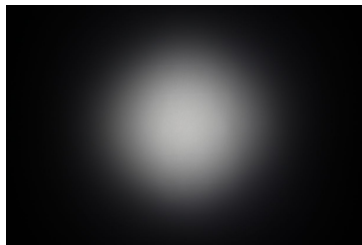
LED XQ-E HD
 FWHM / FWTM 22.0° / 39.0°
 Efficiency 85 %
 Peak intensity 6.2 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON CZ
 FWHM / FWTM 20.0° / 33.0°
 Efficiency 91 %
 Peak intensity 7.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON TX
 FWHM / FWTM 22.0° / 40.0°
 Efficiency 89 %
 Peak intensity 5.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

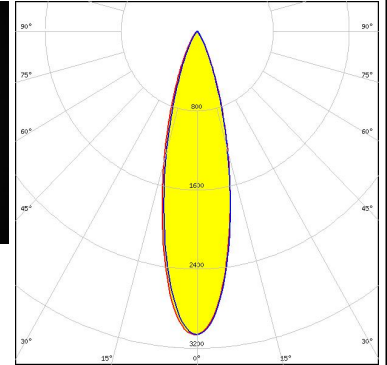
LUMILEDS

LED LUXEON Z ES
 FWHM / FWTM 21.0° / 37.0°
 Efficiency 88 %
 Peak intensity 6.9 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



NICHIA

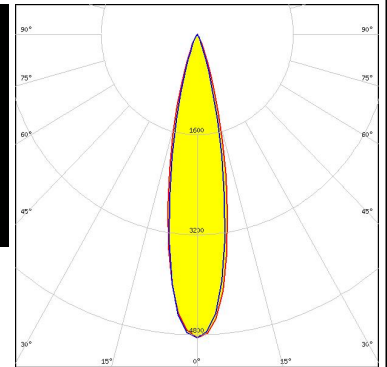
LED NWSx229A
 FWHM / FWTM 26.0° / 52.0°
 Efficiency 86 %
 Peak intensity 3.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

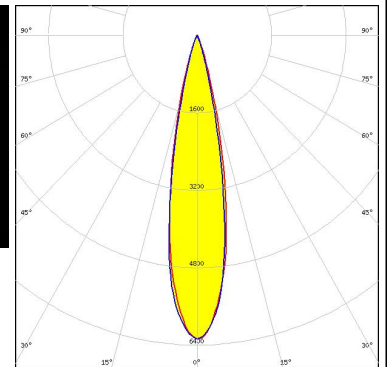
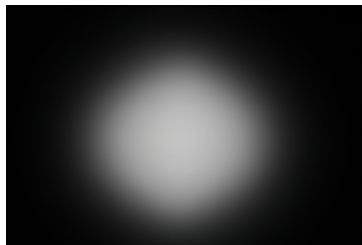
LED OSLOM Square EC
 FWHM / FWTM 23.0° / 40.0°
 Efficiency 85 %
 Peak intensity 4.1 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

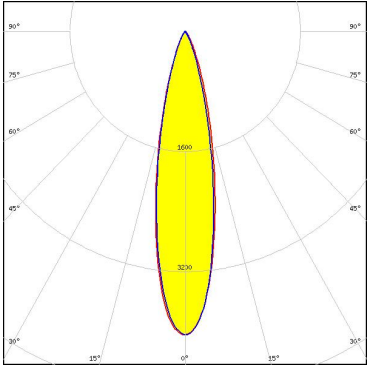

Opto Semiconductors

LED OSLOM SSL 150
 FWHM / FWTM 22.0° / 37.0°
 Efficiency 89 %
 Peak intensity 6.3 cd/m
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (MEASURED):

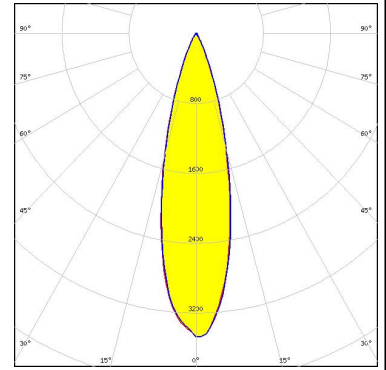
OSRAM Opto Semiconductors	
LED	SFH 4725S
FWHM / FWTM	20.0° / 39.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	
SEOUL SEMICONDUCTOR	
LED	Z5M3
FWHM / FWTM	23.0° / 45.0°
Efficiency	87 %
Peak intensity	4 cd/lm
LEDs/each optic	1
Light colour	White
Required components:	



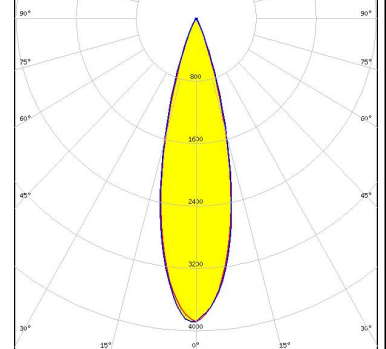
OPTICAL RESULTS (SIMULATED):



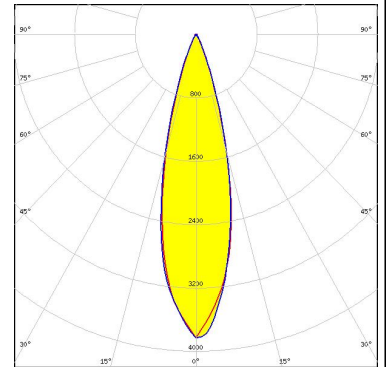
LED XB-D
 FWHM / FWTM 26.0° / 49.0°
 Efficiency 88 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED XE-G
 FWHM / FWTM 27.0° / 46.0°
 Efficiency 91 %
 Peak intensity 3.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON C
 FWHM / FWTM 26.0° / 45.0°
 Efficiency 93 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

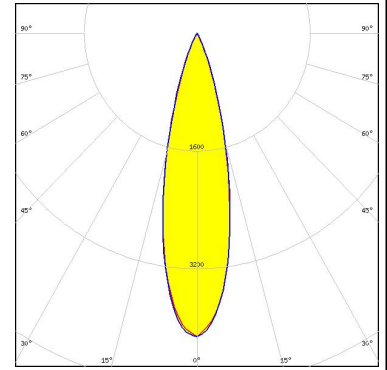


LED LUXEON IR Compact
 FWHM / FWTM 26.0° / 44.0°
 Efficiency 84 %
 LEDs/each optic 1
 Light colour White
 Required components:

OPTICAL RESULTS (SIMULATED):

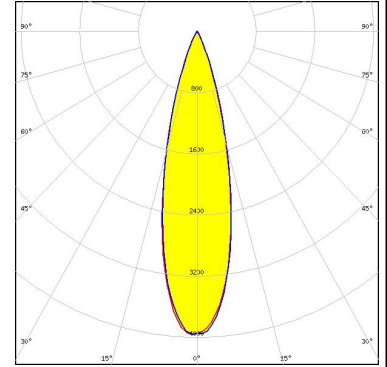
LUMILEDS

LED LUXEON Rubix
 FWHM / FWTM 26.0° / 45.0°
 Efficiency 92 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour Red
 Required components:



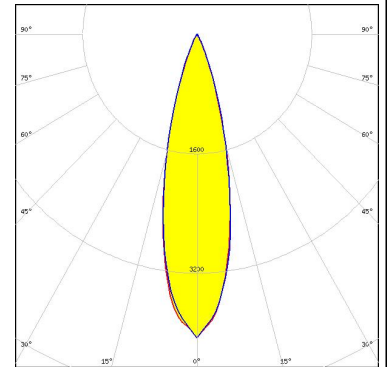
LUMILEDS

LED LUXEON Rubix
 FWHM / FWTM 26.0° / 46.0°
 Efficiency 92 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



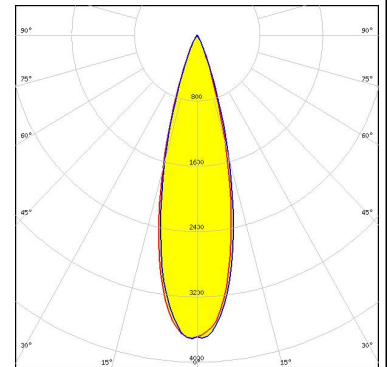
LUMILEDS

LED LUXEON Rubix
 FWHM / FWTM 26.0° / 46.0°
 Efficiency 92 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour Blue
 Required components:


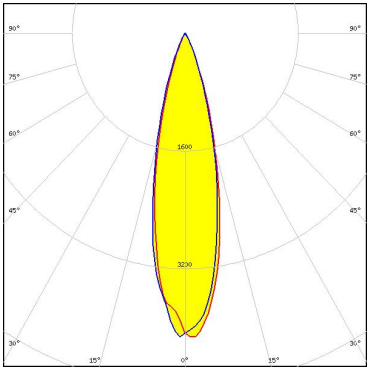

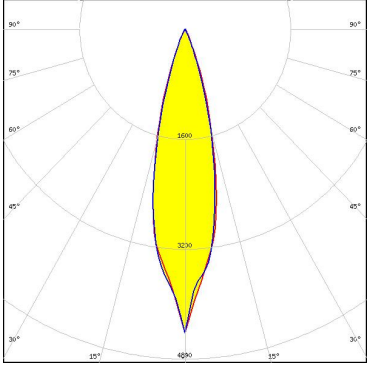
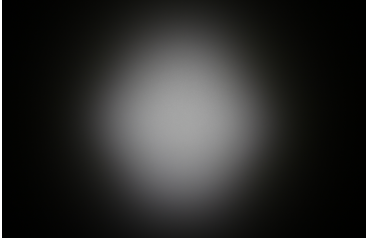
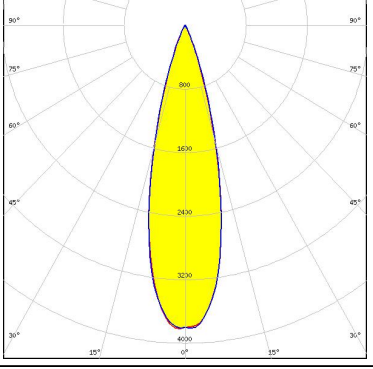

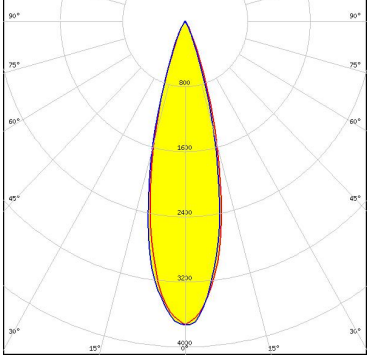


NICHIA

LED NFSx757G
 FWHM / FWTM 27.0° / 47.0°
 Efficiency 92 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

OSRAM <small>Opto Semiconductors</small>	<p>LED Duris S5 (2 chip)</p> <p>FWHM / FWTM 25.0° / 46.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 4.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
OSRAM <small>Opto Semiconductors</small>	<p>LED OSCONIQ P 3030</p> <p>FWHM / FWTM 24.0° / 45.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 4.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Blue</p> <p>Required components:</p>		
OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON Square Flat</p> <p>FWHM / FWTM 27.0° / 45.0°</p> <p>Efficiency 90 %</p> <p>Peak intensity 3.9 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON SSL 80</p> <p>FWHM / FWTM 27.0° / 46.0°</p> <p>Efficiency 90 %</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):

OSRAM
Opto Semiconductors

LED	SFH 4770S
FWHM / FWTM	24.0° / 44.0°
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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