

TINA2-RS

~14° spot beam. Assembly with holder, installation tape and location pins.

TECHNICAL SPECIFICATIONS:

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

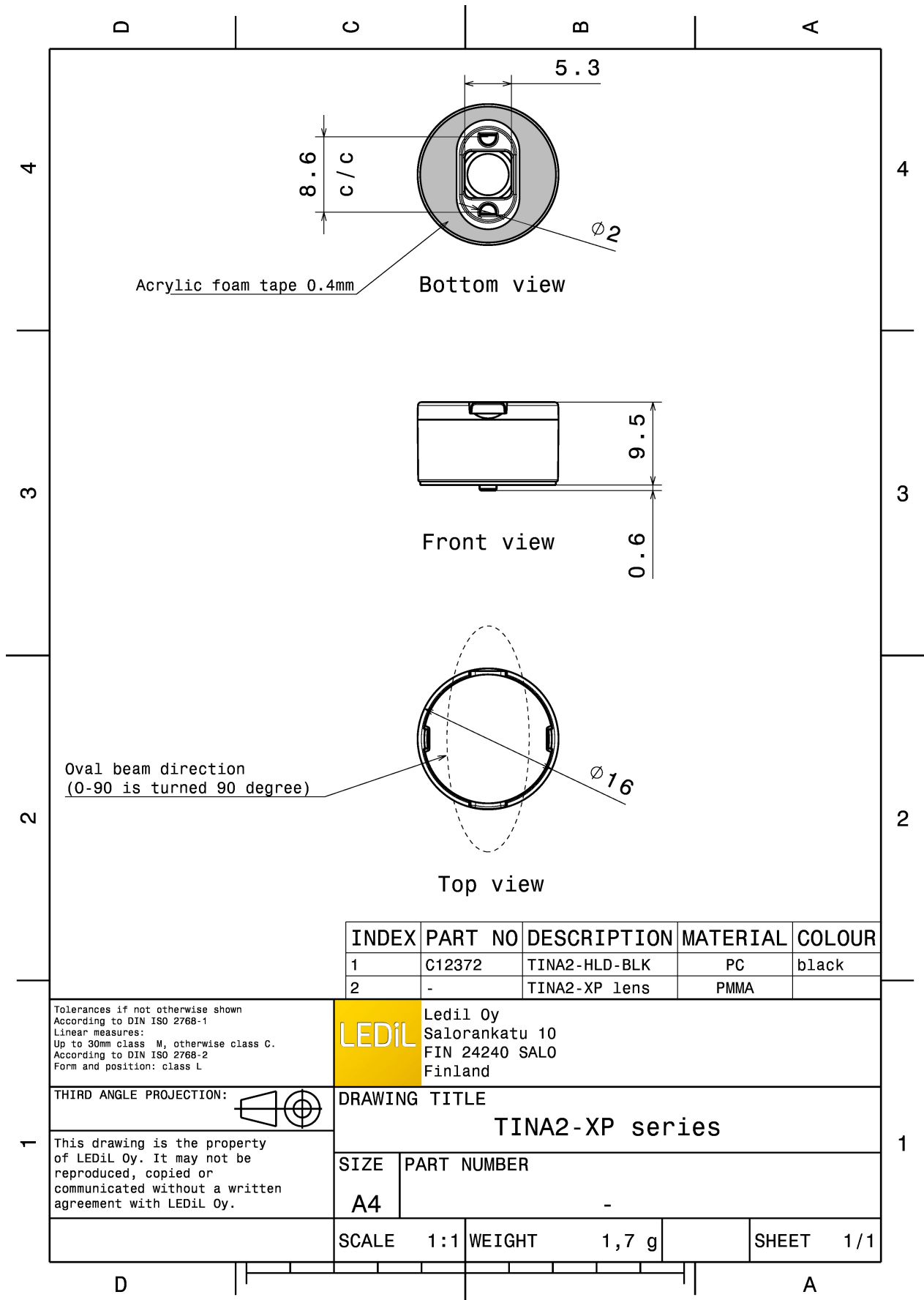


MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
TINA2-RS	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)
CA12374_TINA2-RS	Single lens	4140	230	230	8.3
» Box size: 451 x 241 x 298 mm					

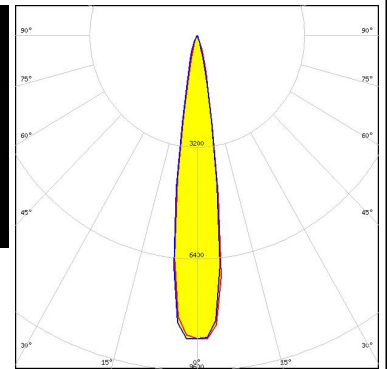


See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

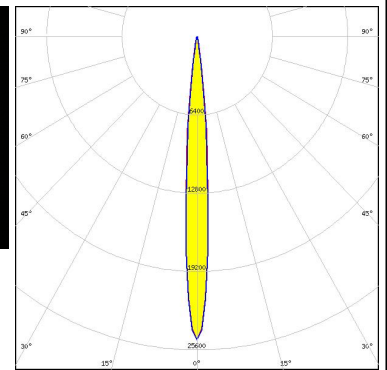
CREE LED

LED XB-H
 FWHM / FWTM 17.0° / 30.0°
 Efficiency 86 %
 Peak intensity 8.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



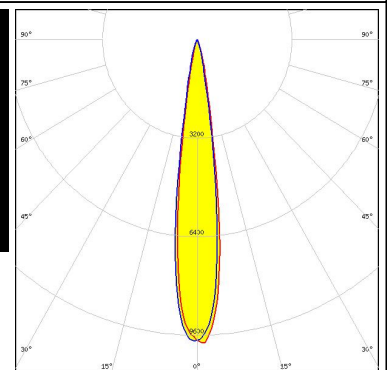
CREE LED

LED XQ-E HI
 FWHM / FWTM 9.0° / 19.0°
 Efficiency 81 %
 Peak intensity 25 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



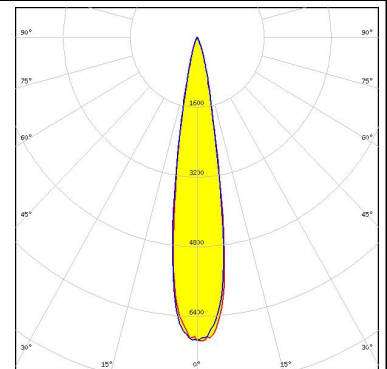
LUMILEDS

LED LUXEON TX
 FWHM / FWTM 15.0° / 27.0°
 Efficiency 89 %
 Peak intensity 9.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:


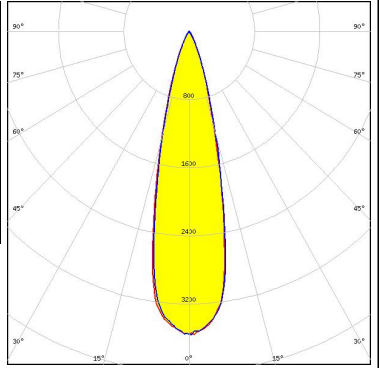


NICHIA

LED NVSxx19B/NVSxx19C
 FWHM / FWTM 18.0° / 32.0°
 Efficiency 88 %
 Peak intensity 7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

<p>NICHIA</p> <p>LED NWSx229A FWHM / FWTM 25.0° / 47.0° Efficiency 86 % Peak intensity 3.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSLON Square EC FWHM / FWTM 13.0° / 26.0° Efficiency 88 % Peak intensity 9.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSLON Square PC FWHM / FWTM 12.0° / 25.0° Efficiency 88 % Peak intensity 9.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSLON SSL 150 FWHM / FWTM 11.0° / 22.0° Efficiency 90 % Peak intensity 19.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

LED OSLOM SSL 80
FWHM / FWTM 10.0° / 24.0°
Efficiency 88 %
Peak intensity 16 cd/lm
LEDs/each optic 1
Light colour White
Required components:

OSRAM

Opto Semiconductors

LED SFH 4180S
FWHM / FWTM 6.0° / 16.0°
Efficiency %
LEDs/each optic 1
Light colour IR
Required components:

OSRAM

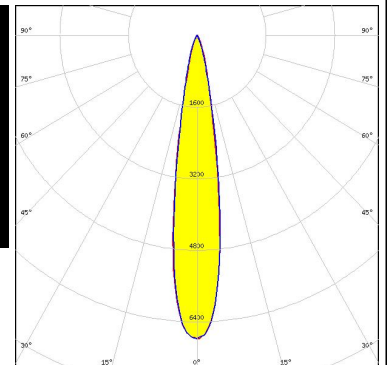
Opto Semiconductors

LED SFH 4716S
FWHM / FWTM 11.0° / 22.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:



SEOUL SEMICONDUCTOR

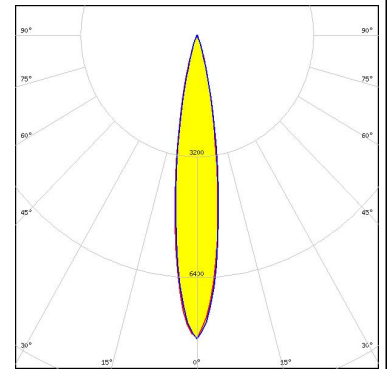
LED Z5M3
FWHM / FWTM 17.0° / 34.0°
Efficiency 87 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



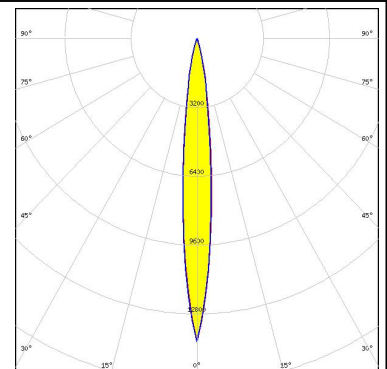
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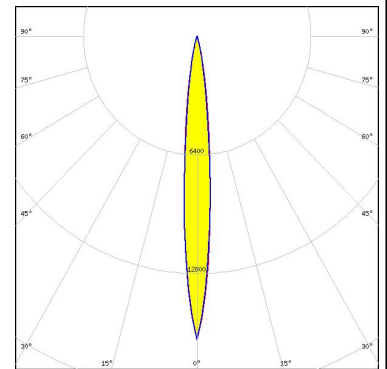
LED XB-D White
 FWHM / FWTM 17.0° / 33.0°
 Efficiency 88 %
 Peak intensity 8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



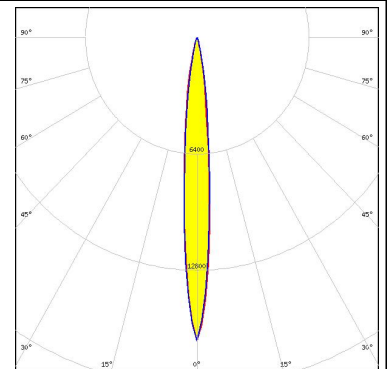
LED LUXEON C
 FWHM / FWTM 11.0° / 26.0°
 Efficiency 92 %
 Peak intensity 14 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED LUXEON IR Compact
 FWHM / FWTM 10.0° / 22.0°
 Efficiency 87 %
 LEDs/each optic 1
 Light colour IR
 Required components:



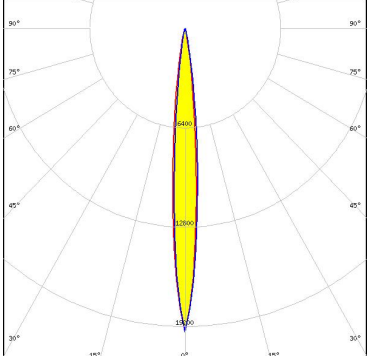
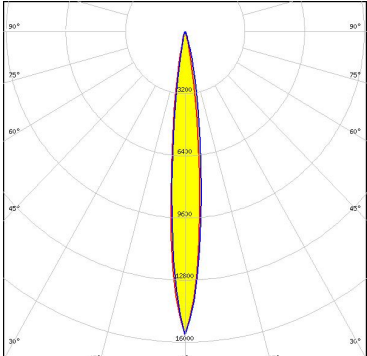
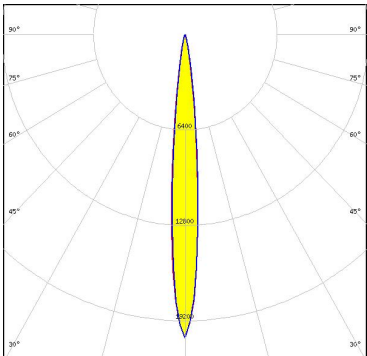
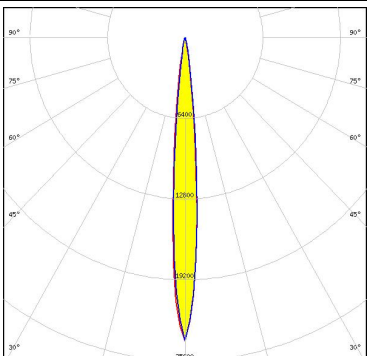
LED NFSx757G
 FWHM / FWTM 10.0° / 24.0°
 Efficiency 93 %
 Peak intensity 16.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

OSRAM <small>Opto Semiconductors</small>	<p>LED OSCONIQ P 3030</p> <p>FWHM / FWTM 12.0° / 24.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 16 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 OSLOK Black Flat</p> <p>FWHM / FWTM 14.0° / 26.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 13.4 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 OSLOK Black Flat</p> <p>FWHM / FWTM 8.6° / 17.0°</p> <p>Efficiency 92 %</p> <p>Peak intensity 32.4 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 OSLOK Square Flat</p> <p>FWHM / FWTM 11.0° / 23.0°</p> <p>Efficiency 91 %</p> <p>Peak intensity 16.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

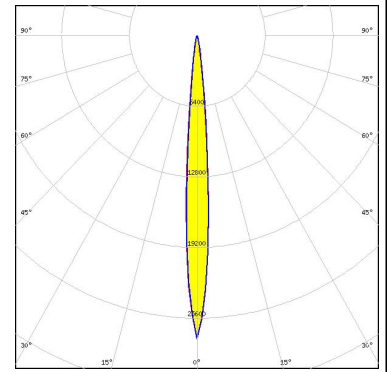
PHOTOMETRIC DATA (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4170S FWHM / FWTM 10.0° / 21.0° Efficiency 81 % LEDs/each optic 1 Light colour IR Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED SFH 4770S FWHM / FWTM 13.0° / 29.0° Efficiency 92 % LEDs/each optic 1 Light colour IR Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Synios P2720 1 mm FWHM / FWTM 10.0° / 20.0° Efficiency 92 % Peak intensity 20.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED Synios P2720 1/2 mm FWHM / FWTM 9.0° / 18.0° Efficiency 92 % Peak intensity 24 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

LED	Synios P2720 1/4 mm
FWHM / FWTM	8.0° / 17.0°
Efficiency	92 %
Peak intensity	27.5 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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