

TINA2-O

~35° + 15° oval 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 ⓘ

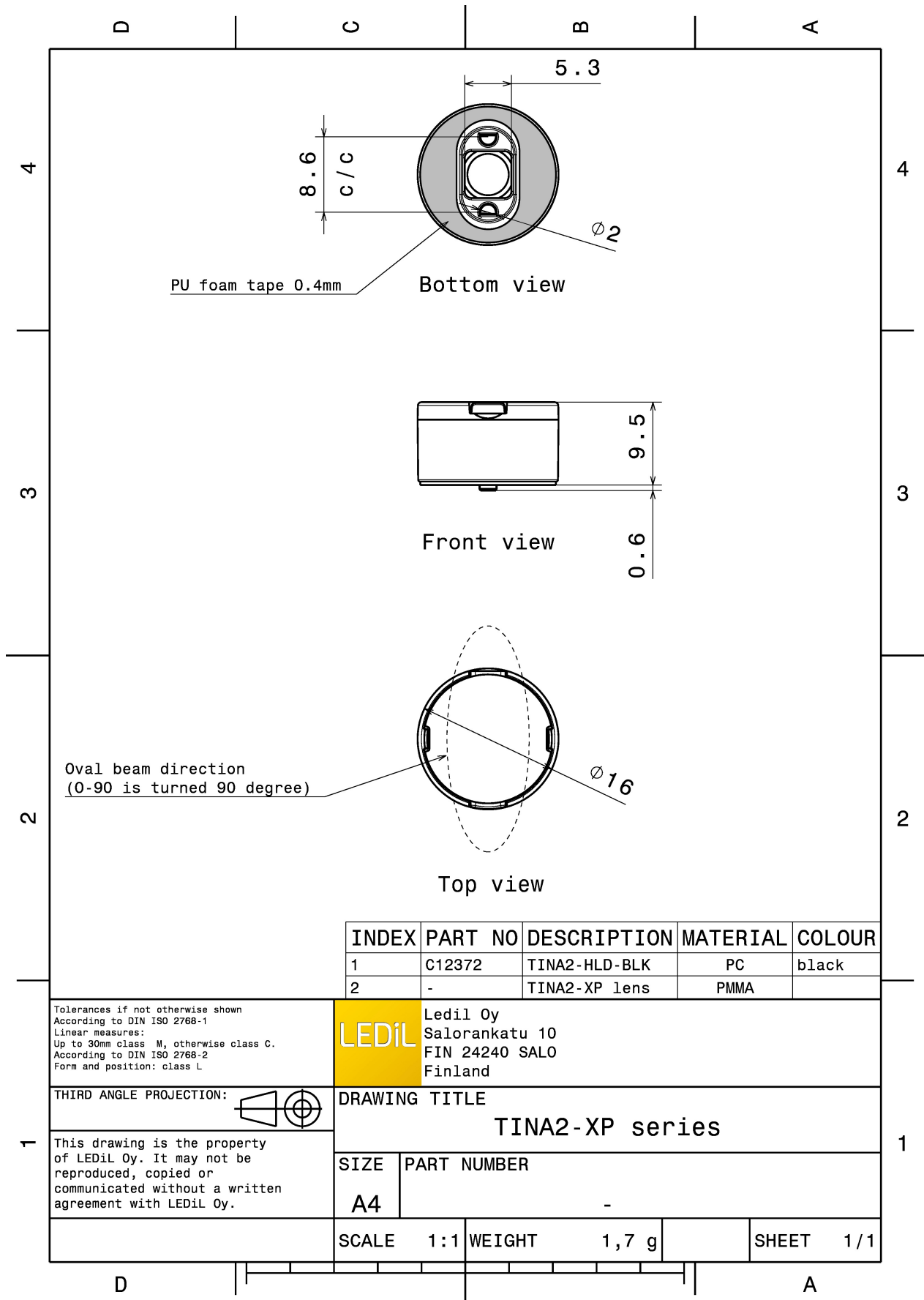


MATERIAL SPECIFICATIONS:

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


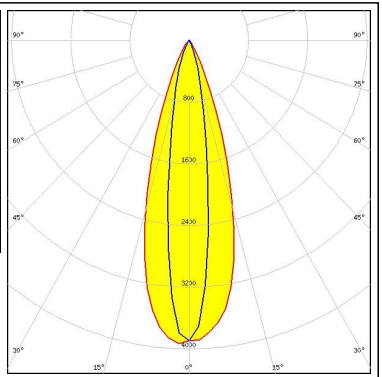

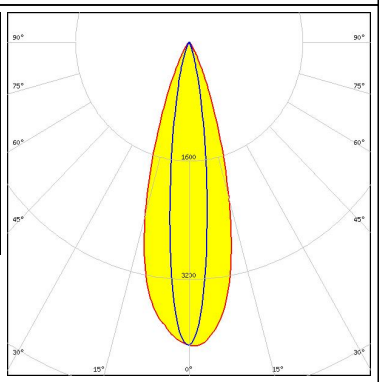

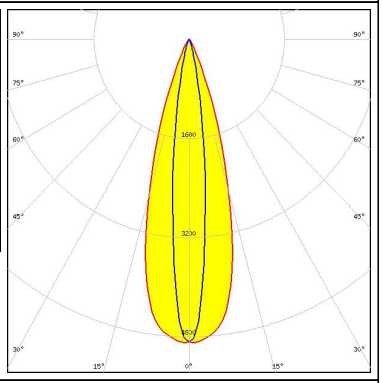

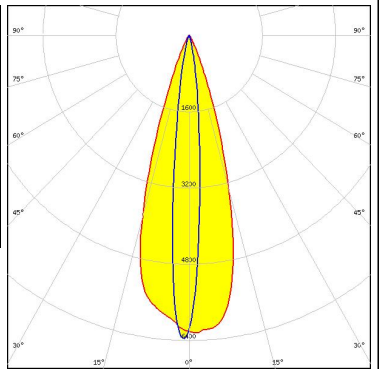
ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CA12379_TINA2-O	Single lens	4140	230	230	8.5
» Box size: 451 x 241 x 298 mm					



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

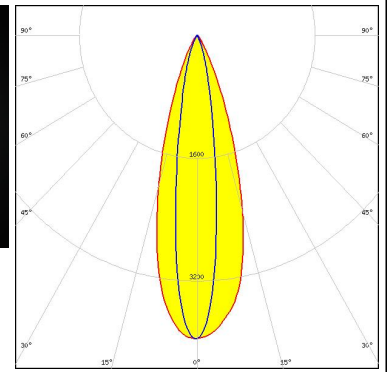
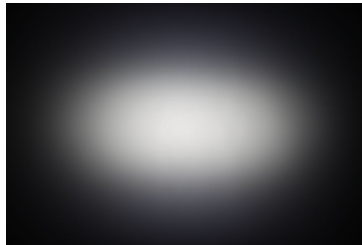
PHOTOMETRIC DATA (MEASURED):

<p>CREE LED</p> <p>LED XB-H FWHM / FWTM 34.0 + 17.0° / 57.0 + 39.0° Efficiency 84 % Peak intensity 3.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LED</p> <p>LED XD16 FWHM / FWTM 32.0 + 15.0° / 54.0 + 32.0° Efficiency 80 % Peak intensity 4.1 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>CREE LED</p> <p>LED XQ-E HI FWHM / FWTM 33.0 + 13.0° / 51.0 + 28.0° Efficiency 80 % Peak intensity 5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>LUMILEDS</p> <p>LED LUXEON CZ FWHM / FWTM 32.0 + 10.0° / 49.0 + 23.0° Efficiency 88 % Peak intensity 6.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

PHOTOMETRIC DATA (MEASURED):

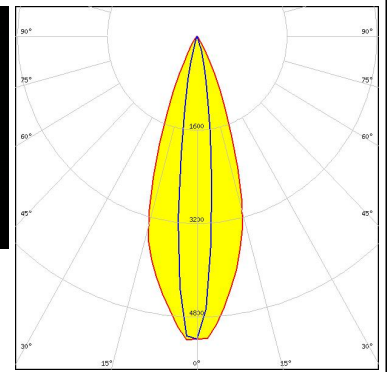
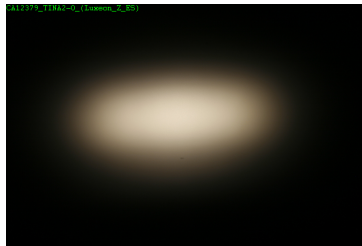
LUMILEDS

LED LUXEON TX
 FWHM / FWTM 32.0 + 16.0° / 55.0 + 37.0°
 Efficiency 85 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



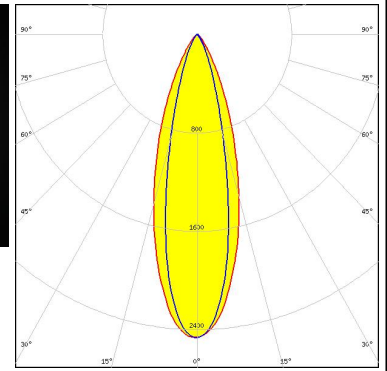
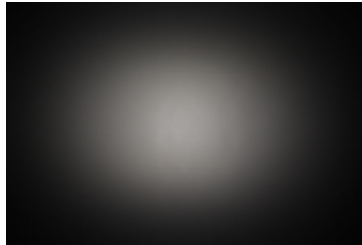
LUMILEDS

LED LUXEON Z ES
 FWHM / FWTM 36.0 + 13.0° / 56.0 + 28.0°
 Efficiency 85 %
 Peak intensity 5.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



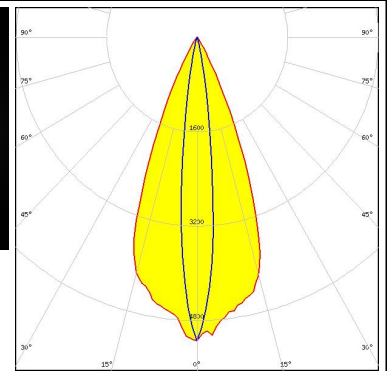
NICHIA

LED NWSx229A
 FWHM / FWTM 33.0 + 24.0° / 65.0 + 49.0°
 Efficiency 82 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors
 LED OSLOM Black Flat
 FWHM / FWTM 31.0 + 12.0° / 50.0 + 24.0°
 Efficiency 87 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

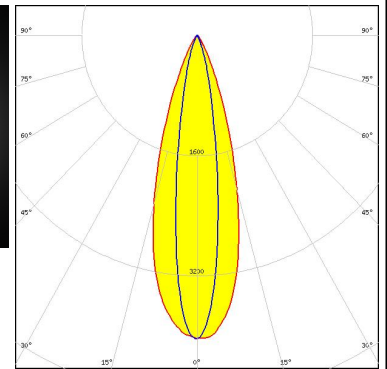
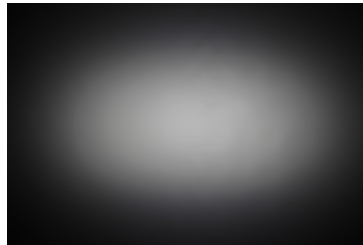


PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

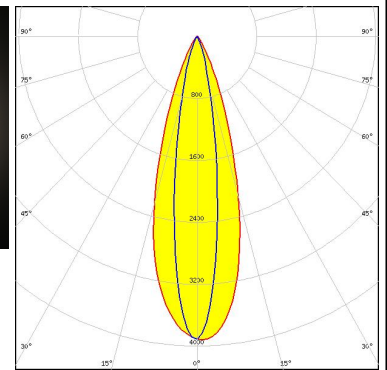
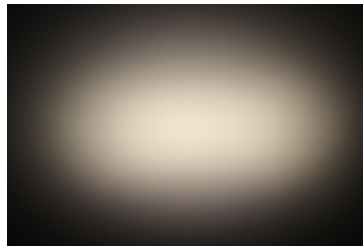
LED OSLON Square CSSRM2/CSSRM3
 FWHM / FWTM 32.0 + 16.0° / 55.0 + 36.0°
 Efficiency 87 %
 Peak intensity 4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

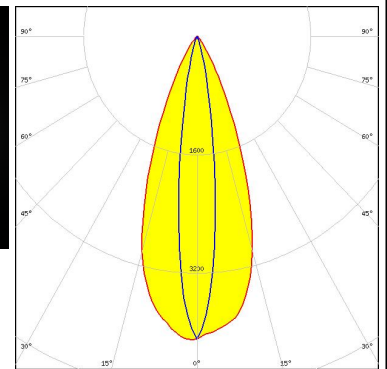
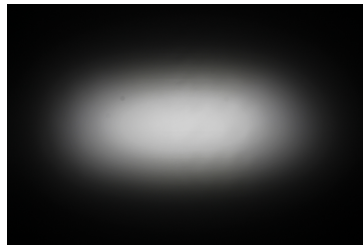
LED OSLON Square EC
 FWHM / FWTM 33.0 + 17.0° / 57.0 + 37.0°
 Efficiency 84 %
 Peak intensity 3.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

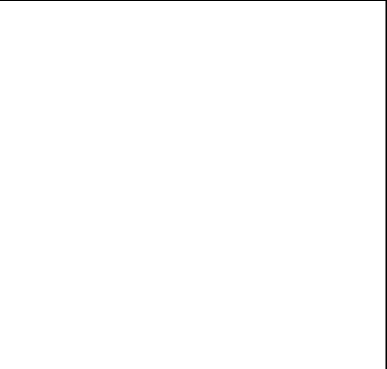
LED OSLON Square Flat
 FWHM / FWTM 31.0 + 12.0° / 50.0 + 24.0°
 Efficiency 87 %
 Peak intensity 5.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

LED OSLON Square PC
 FWHM / FWTM 33.0 + 13.0° / 56.0 + 34.0°
 Efficiency 87 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

OSRAM

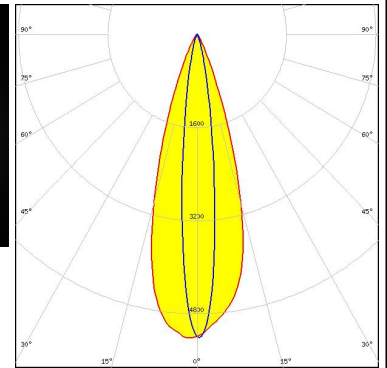
Opto Semiconductors

LED OSLOM SSL 150
 FWHM / FWTM 38.0 + 13.0° / 59.0 + 30.0°
 Efficiency 87 %
 Peak intensity 3.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

OSRAM

Opto Semiconductors

LED OSLOM SSL 150
 FWHM / FWTM 33.0 + 13.0° / 52.0 + 28.0°
 Efficiency 86 %
 Peak intensity 5.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

LED OSLOM SSL 80
 FWHM / FWTM 35.0 + 12.0° / 56.0 + 30.0°
 Efficiency 86 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

OSRAM

Opto Semiconductors

LED SFH 4170S
 FWHM / FWTM 30.0 + 10.0° / 50.0 + 26.0°
 Efficiency %
 LEDs/each optic 1
 Light colour IR
 Required components:

PHOTOMETRIC DATA (MEASURED):

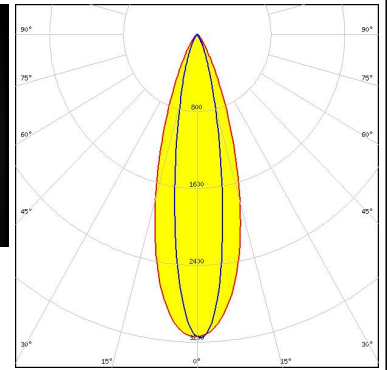
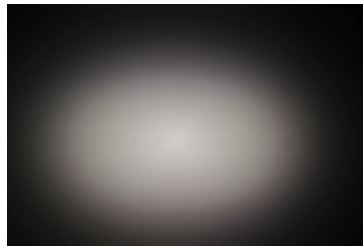
OSRAM Opto Semiconductors

LED SFH 4180S
FWHM / FWTM 31.0 + 10.0° / 50.0 + 27.0°
Efficiency %
LEDs/each optic 1
Light colour IR
Required components:



SEOUL SEMICONDUCTOR

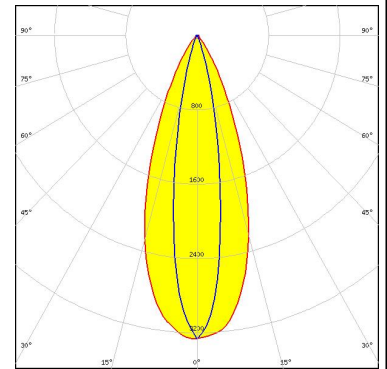
LED Z5M3
FWHM / FWTM 33.0 + 19.0° / 59.0 + 42.0°
Efficiency 82 %
Peak intensity 3.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



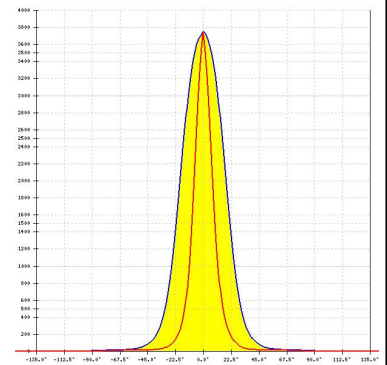
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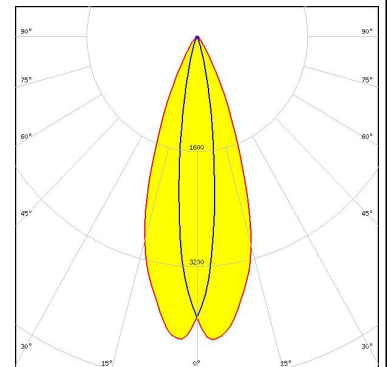
LED XB-D White
FWHM / FWTM 39.0 + 18.0° / 67.0 + 36.0°
Efficiency 86 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON 2835 Line
FWHM / FWTM 38.0 + 16.0° / 66.0 + 34.0°
Efficiency 96 %
Peak intensity 3.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:

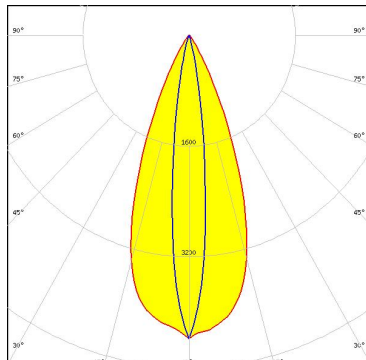
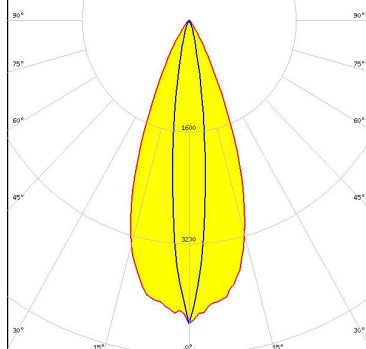
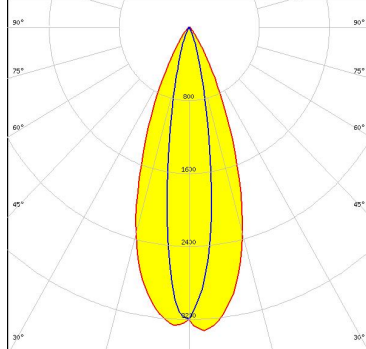
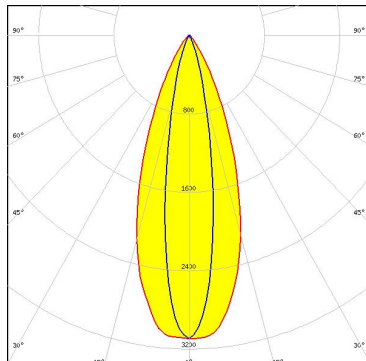


LED LUXEON C
FWHM / FWTM 14.0 + 37.0° / 30.0 + 60.0°
Efficiency 93 %
Peak intensity 4.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON IR Compact
FWHM / FWTM 37.0 + 13.0° / 60.0 + 27.0°
Efficiency 82 %
LEDs/each optic 1
Light colour White
Required components:

PHOTOMETRIC DATA (SIMULATED):

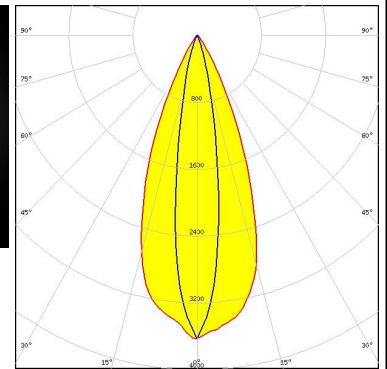
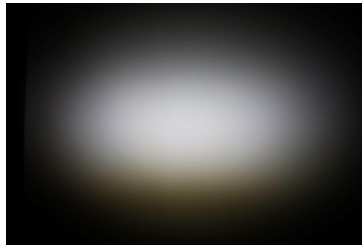
<p>NICHIA</p> <p>LED: NCSxE17A</p> <p>FWHM / FWTM: 42.0 + 13.0° / 62.0 + 26.0°</p> <p>Efficiency: 87 %</p> <p>Peak intensity: 4.4 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED: NFSx757G</p> <p>FWHM / FWTM: 41.0 + 13.0° / 63.0 + 29.0°</p> <p>Efficiency: 90 %</p> <p>Peak intensity: 4.4 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED: NVSxx19B/NVSxx19C</p> <p>FWHM / FWTM: 39.0 + 17.0° / 66.0 + 36.0°</p> <p>Efficiency: 86 %</p> <p>Peak intensity: 3.3 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED: NVSxx19B/NVSxx19C</p> <p>FWHM / FWTM: 39.0 + 18.0° / 68.0 + 39.0°</p> <p>Efficiency: 85 %</p> <p>Peak intensity: 3.1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED Duris S5 (2 chip)
 FWHM / FWTM 41.0 + 17.0° / 64.0 + 34.0°
 Efficiency 91 %
 Peak intensity 3.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

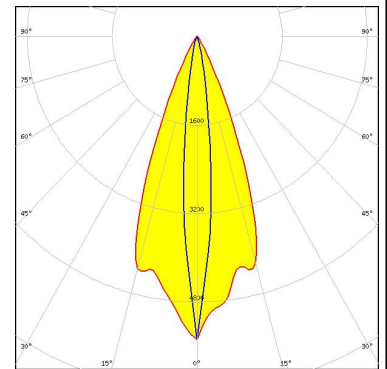
Opto Semiconductors

LED SFH 4770S
 FWHM / FWTM 41.0 + 16.0° / 63.0 + 33.0°
 Efficiency 85 %
 Peak intensity 3.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

OSRAM

Opto Semiconductors

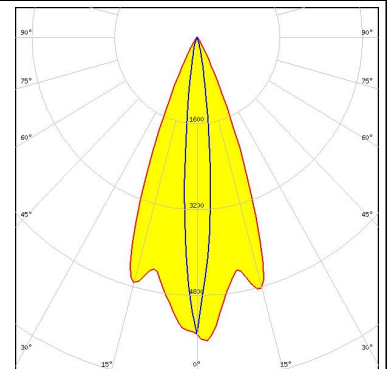
LED Synios P2720 1 mm
 FWHM / FWTM 41.0 + 11.0° / 57.0 + 23.0°
 Efficiency 91 %
 Peak intensity 5.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

LED Synios P2720 1/2 mm
 FWHM / FWTM 41.0 + 10.0° / 56.0 + 23.0°
 Efficiency 91 %
 Peak intensity 5.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

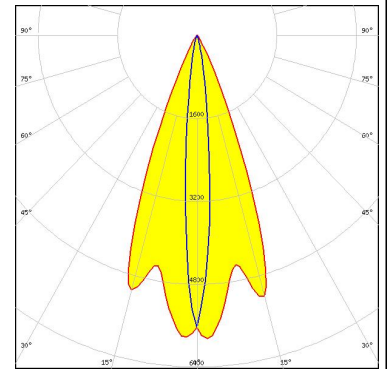


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OSRAM

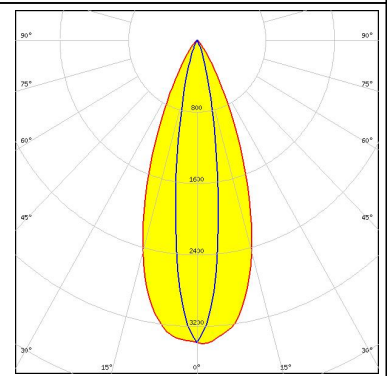
Opto Semiconductors

LED Synios P2720 1/4 mm
FWHM / FWTM 41.0 + 9.0° / 56.0 + 22.0°
Efficiency 91 %
Peak intensity 6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



SAMSUNG

LED LM302D
FWHM / FWTM 40.0 + 16.0° / 66.0 + 36.0°
Efficiency 88 %
Peak intensity 3.4 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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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[FA15229_ROSE-MRK-S](#) [FA15232_ROSE-MRK-M](#) [FA15233_ROSE-MRK-W](#) [FCN13552_CRYSTAL-RS](#) [FN15552_RONDA-W](#)
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[CA14509_G2-LXP2-M-P](#) [CA15231_VERONICA-SQ-MINI-W](#) [FP11002_LISA2-W-PIN](#)