

TINA2-O

~35° + 15° oval 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 ⓘ

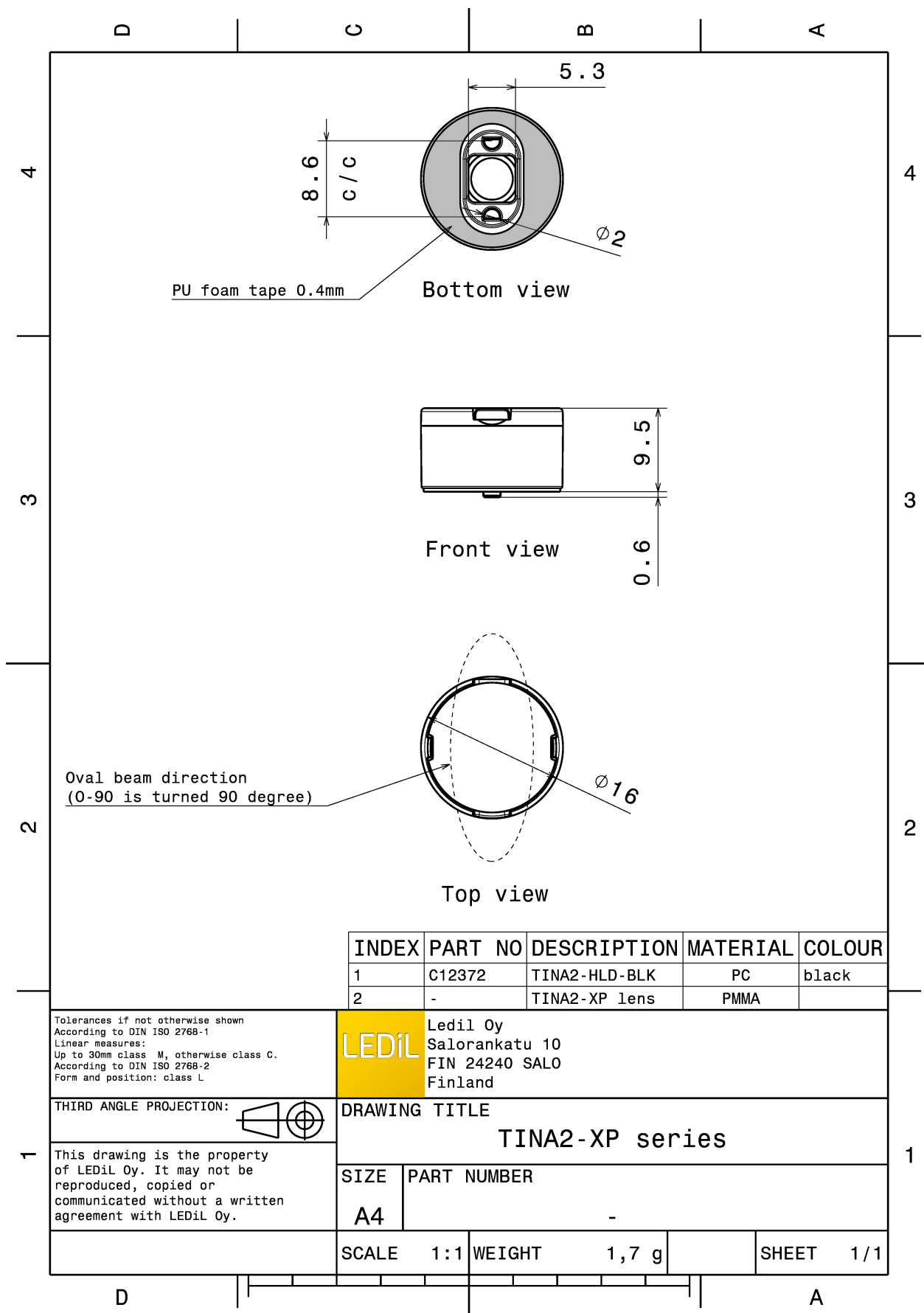


MATERIALS:

Component	Type	Material	Colour	Finish
TINA2-XP-O	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)
CA12379_TINA2-O	Single lens	4140	230	230	8.5
» Box size: 451 x 241 x 298 mm					

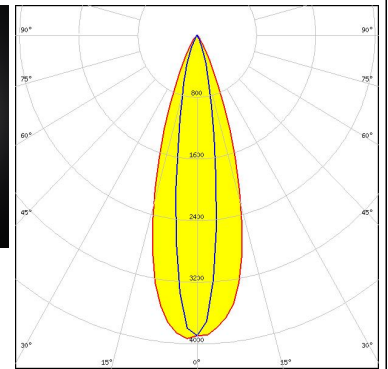
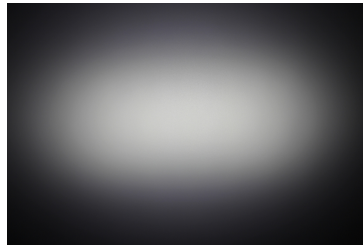


See also our general installation guide: www.ledil.com/installation_guide

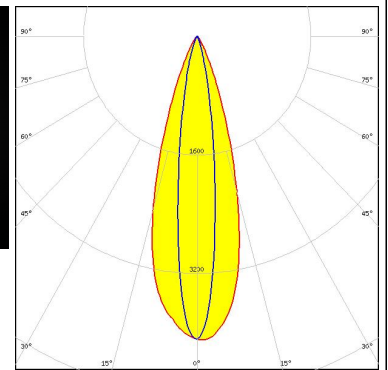
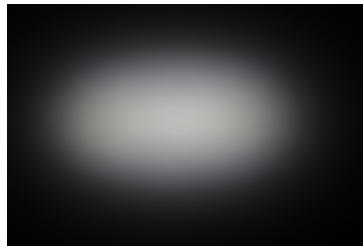
OPTICAL RESULTS (MEASURED):



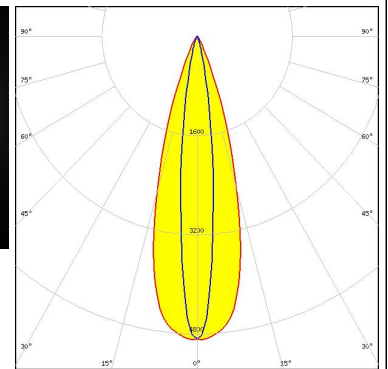
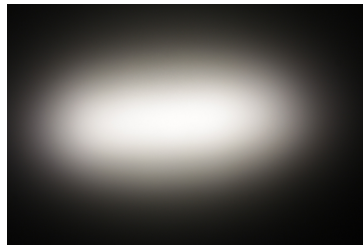
LED XB-H
FWHM / FWTM 34.0 + 17.0° / 57.0 + 39.0°
Efficiency 84 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



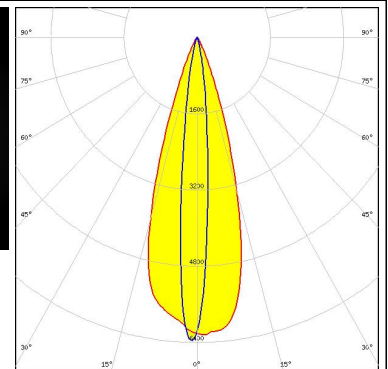
LED XD16
FWHM / FWTM 32.0 + 15.0° / 54.0 + 32.0°
Efficiency 80 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:



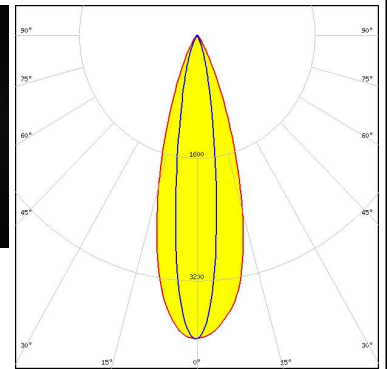
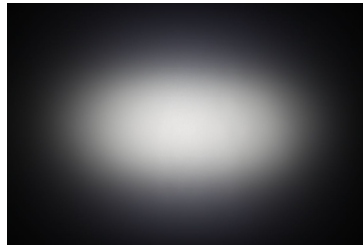
LED LUXEON CZ
FWHM / FWTM 32.0 + 10.0° / 49.0 + 23.0°
Efficiency 88 %
Peak intensity 6.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



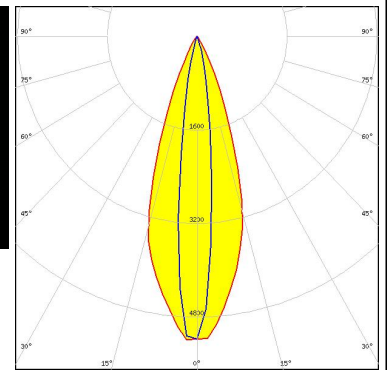
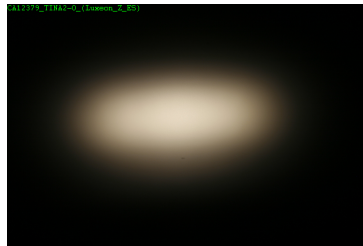
OPTICAL RESULTS (MEASURED):



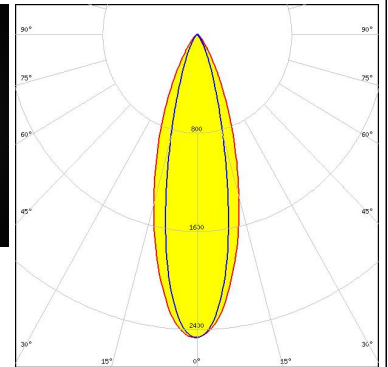
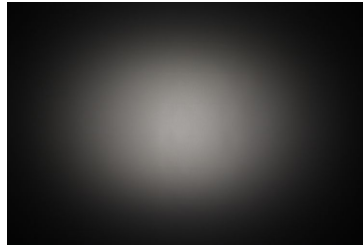
LED LUXEON TX
FWHM / FWTM 32.0 + 16.0° / 55.0 + 37.0°
Efficiency 85 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



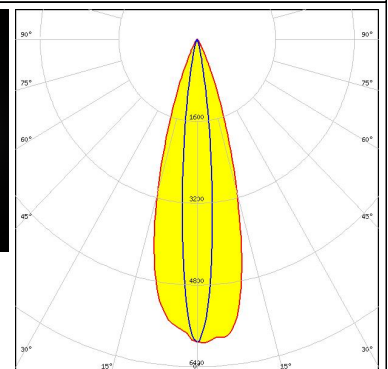
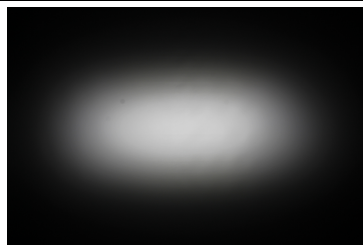
LED LUXEON Z ES
FWHM / FWTM 36.0 + 13.0° / 56.0 + 28.0°
Efficiency 85 %
Peak intensity 5.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:



LED OSLO Black Flat (LUW HWQP)
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:

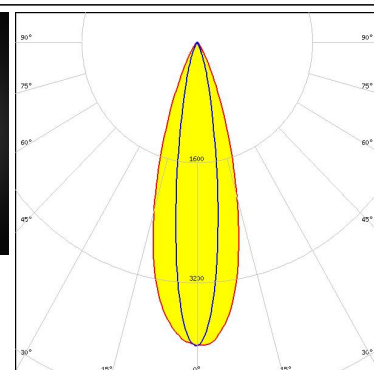
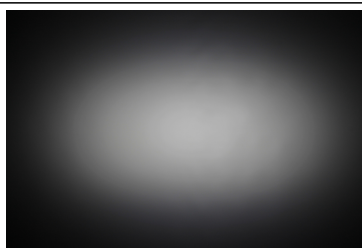


OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

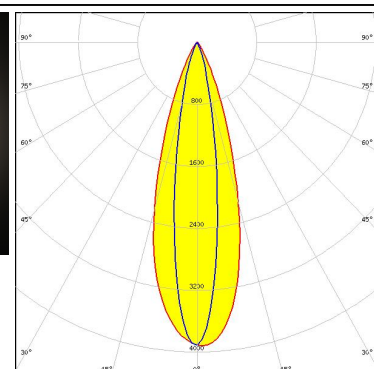
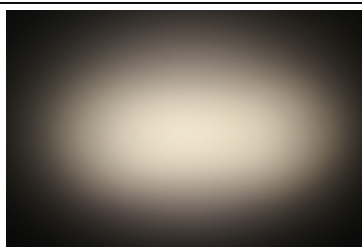
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 32.0 + 16.0° / 55.0 + 36.0°
Efficiency 87 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

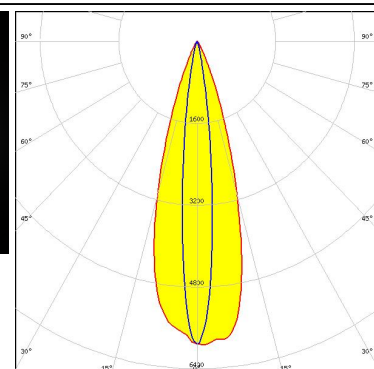
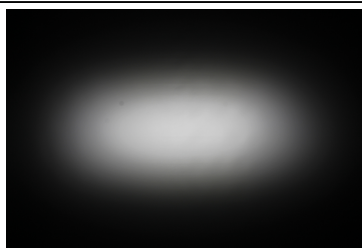
LED OSLON Square EC
FWHM / FWTM 33.0 + 17.0° / 57.0 + 37.0°
Efficiency 84 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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

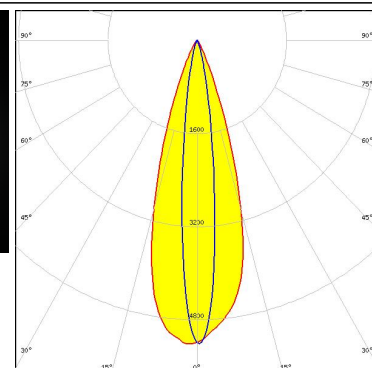
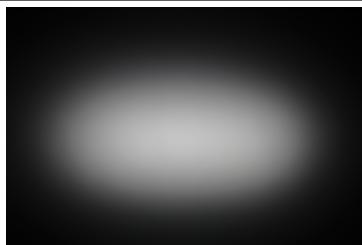
LED OSLON Square PC
FWHM / FWTM 33.0 + 13.0° / 56.0 + 34.0°
Efficiency 87 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

LED OSLON 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 OSLON 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

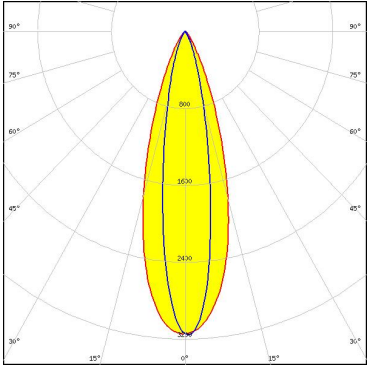
LED OSLON SSL 80
FWHM / FWTM 35.0 + 12.0° / 56.0 + 30.0°
Efficiency 86 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

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:

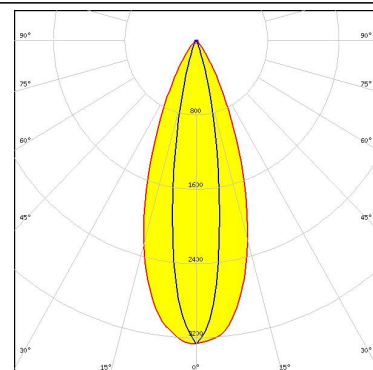
OPTICAL RESULTS (MEASURED):

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 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:	

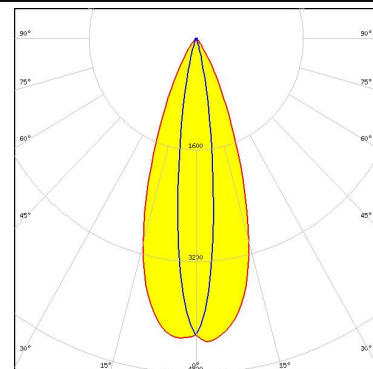
OPTICAL RESULTS (SIMULATED):



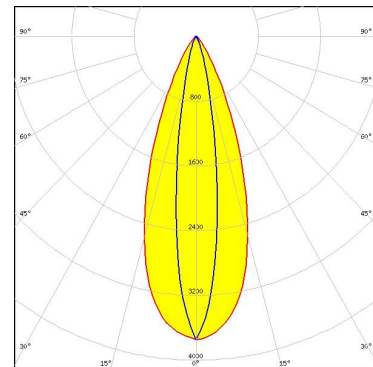
LED XB-D
FWHM / FWTM 39.0 + 18.0° / 67.0 + 36.0°
Efficiency 86 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



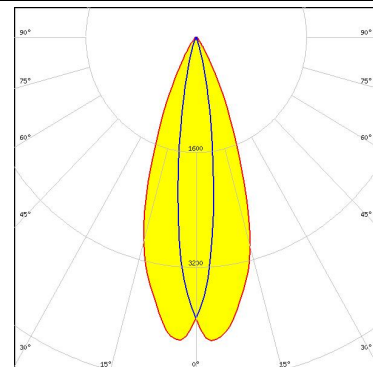
LED XE-G
FWHM / FWTM 38.0 + 14.0° / 62.0 + 28.0°
Efficiency 89 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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:



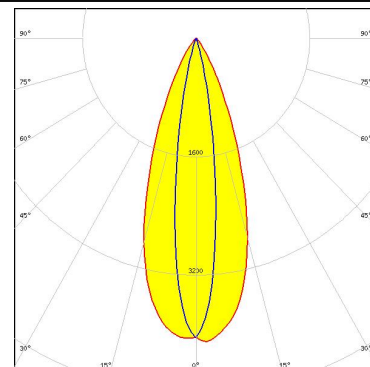
OPTICAL RESULTS (SIMULATED):



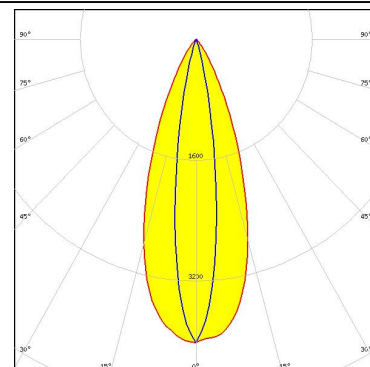
LED LUXEON IR Compact
FWHM / FWTM 37.0 + 13.0° / 60.0 + 27.0°
Efficiency 82 %
LEDs/each optic 1
Light colour White
Required components:



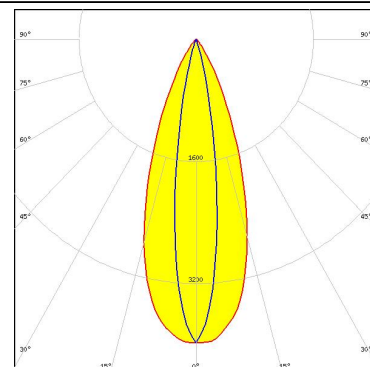
LED LUXEON Rubix
FWHM / FWTM 38.0 + 16.0° / 65.0 + 30.0°
Efficiency 91 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour Red
Required components:



LED LUXEON Rubix
FWHM / FWTM 38.0 + 16.0° / 66.0 + 30.0°
Efficiency 91 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour Blue
Required components:



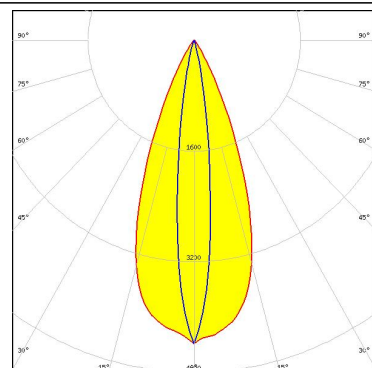
LED LUXEON Rubix
FWHM / FWTM 38.0 + 16.0° / 65.0 + 31.0°
Efficiency 90 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



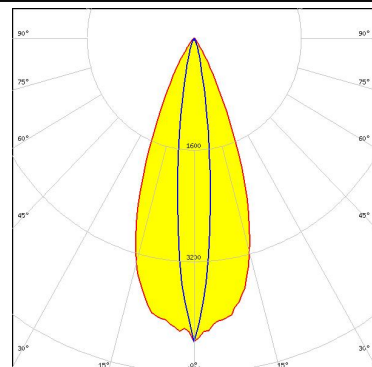
OPTICAL RESULTS (SIMULATED):



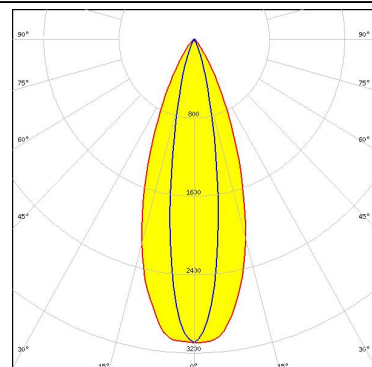
LED NCSxE17A
FWHM / FWTM 42.0 + 13.0° / 62.0 + 26.0°
Efficiency 87 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



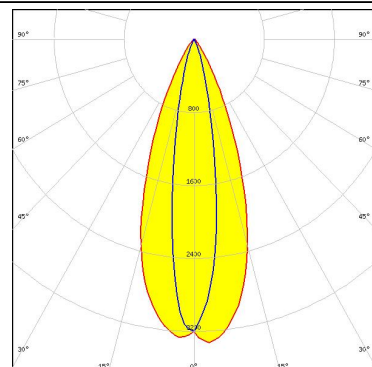
LED NFSx757G
FWHM / FWTM 41.0 + 13.0° / 63.0 + 29.0°
Efficiency 90 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSxx19B/NVSxx19C
FWHM / FWTM 39.0 + 18.0° / 68.0 + 39.0°
Efficiency 85 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



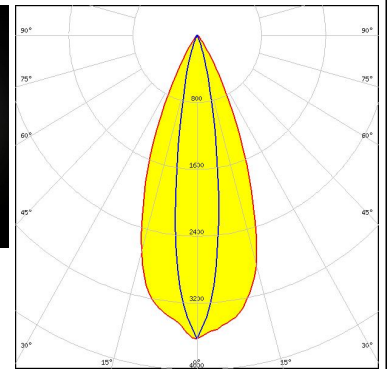
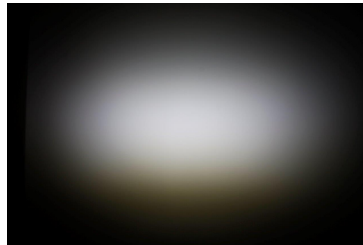
LED NVSxx19B/NVSxx19C
FWHM / FWTM 39.0 + 17.0° / 66.0 + 36.0°
Efficiency 86 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (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:

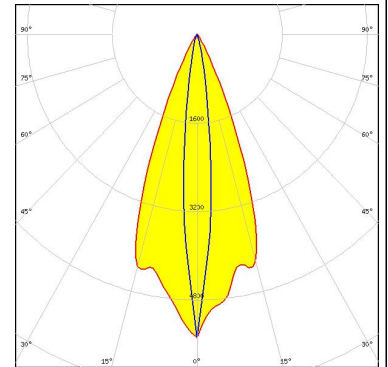


OSRAM Opto Semiconductors

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:

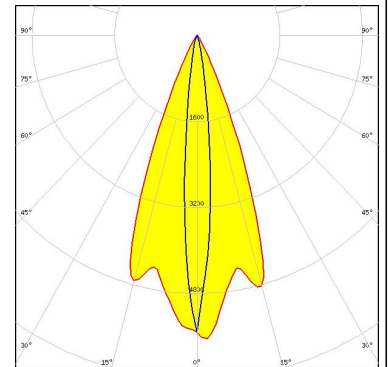
OSRAM Opto Semiconductors

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:

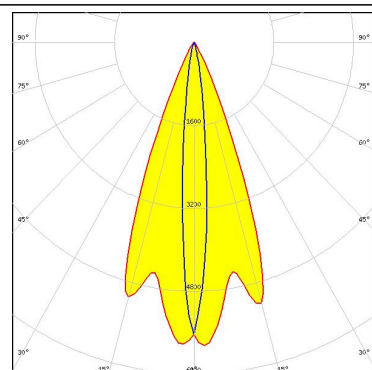


OPTICAL RESULTS (SIMULATED):

OSRAM

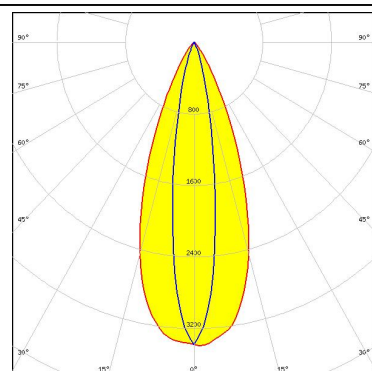
Opto Semiconductors

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:



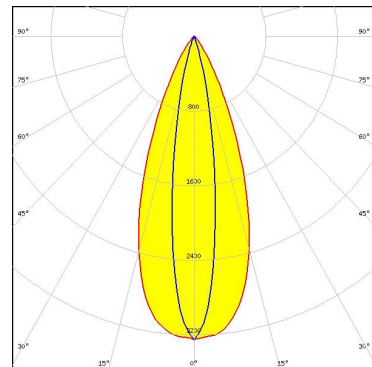
SAMSUNG

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:



SEOUL SEMICONDUCTOR

LED Z8Y15
FWHM / FWTM 40.0 + 17.0° / 66.0 + 32.0°
Efficiency 82 %
Peak intensity 3.3 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:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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