


TINA2-O

~35° + 15° oval beam optimized for CREE XP-E.
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 

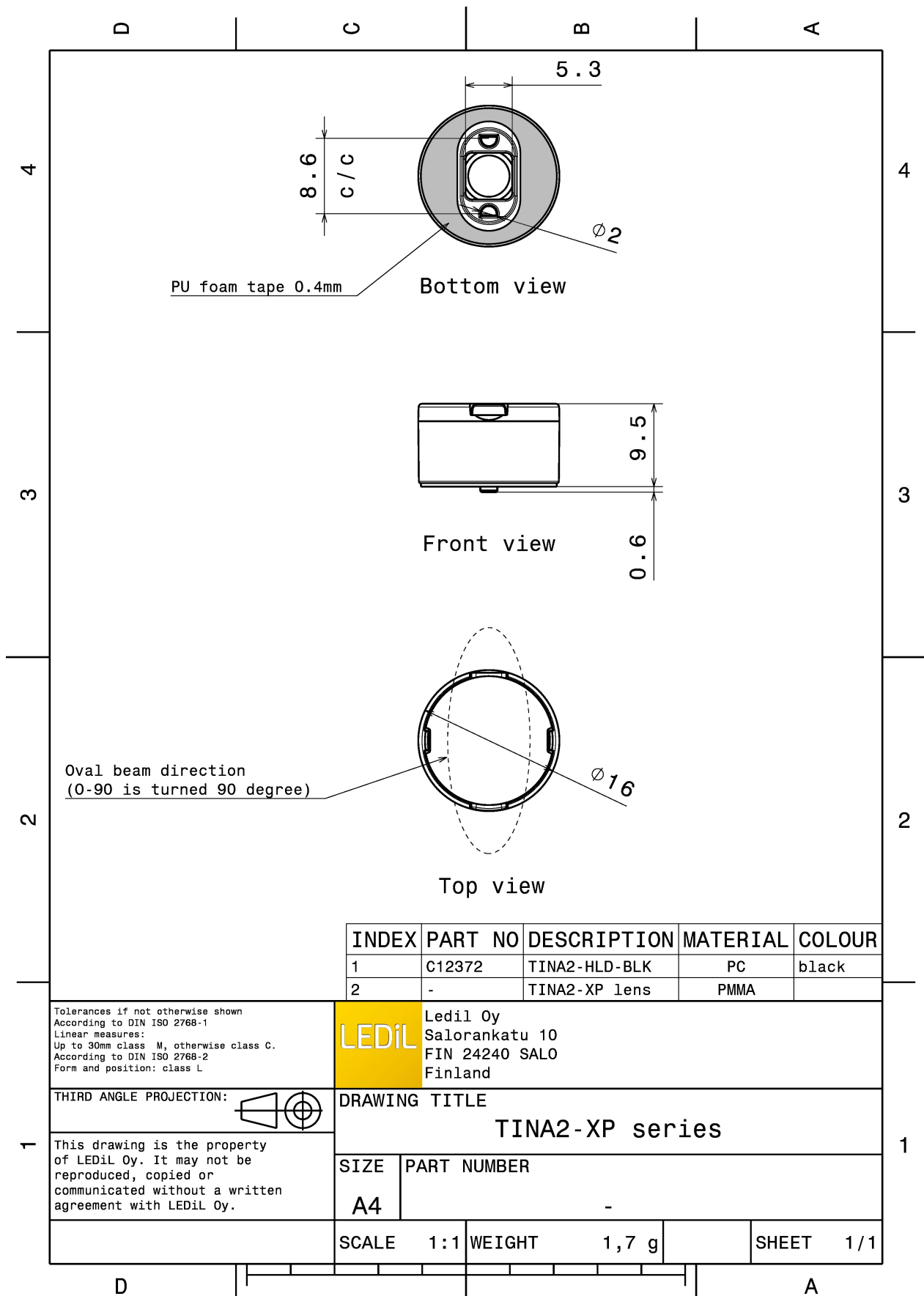
MATERIAL SPECIFICATIONS:

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

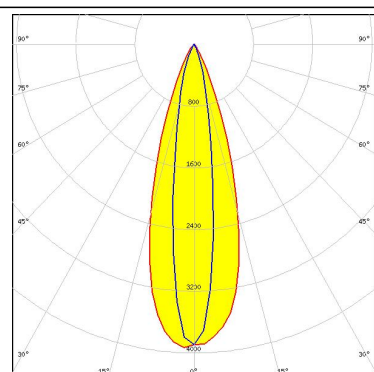
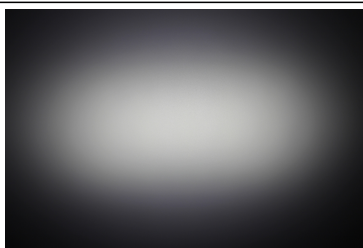




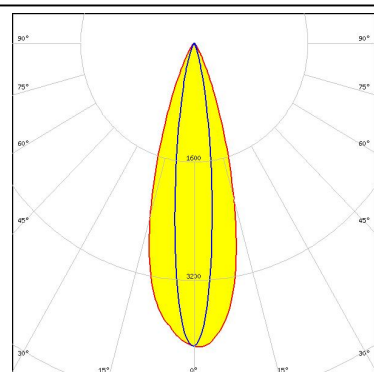
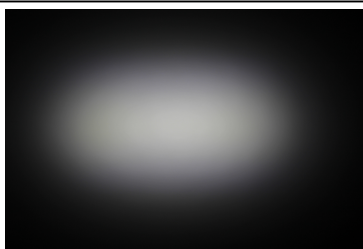
PHOTOMETRIC DATA (MEASURED):



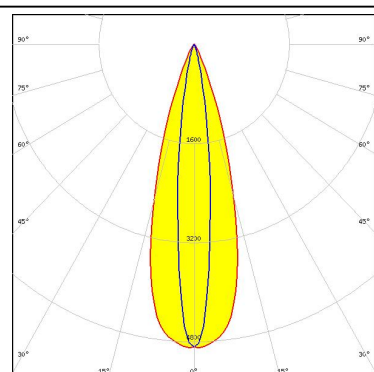
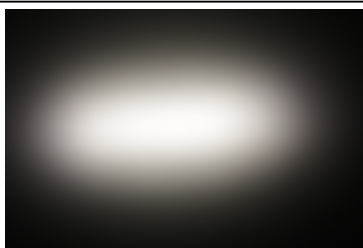
LED XB-H
FWHM $34.0 + 17.0^\circ$
Efficiency 84 %
Peak intensity 3.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



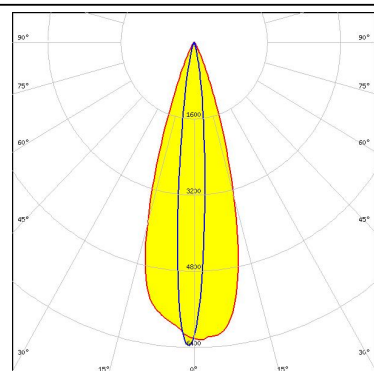
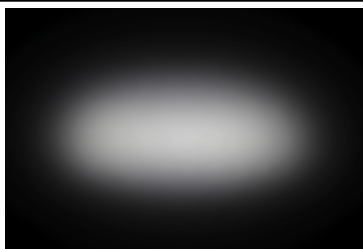
LED XD16
FWHM $32.0 + 15.0^\circ$
Efficiency 80 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XQ-E HI
FWHM $33.0 + 13.0^\circ$
Efficiency 80 %
Peak intensity 5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



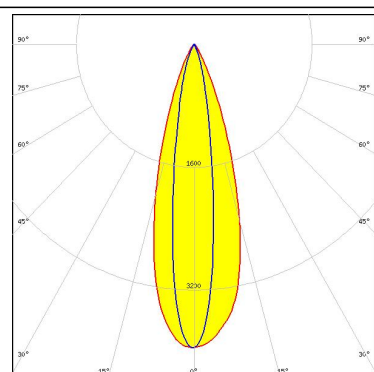
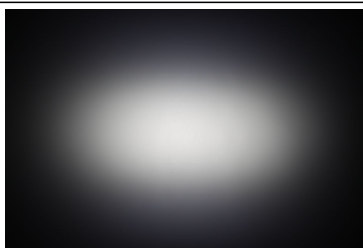
LED LUXEON CZ
FWHM $32.0 + 10.0^\circ$
Efficiency 88 %
Peak intensity 6.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



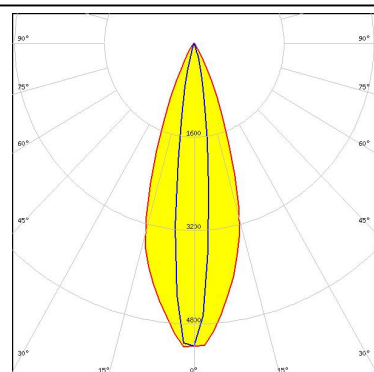
PHOTOMETRIC DATA (MEASURED):



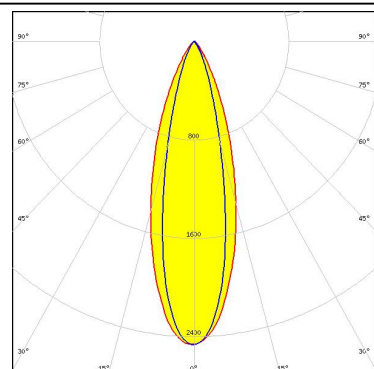
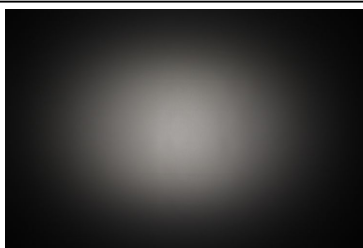
LED LUXEON TX
FWHM 32.0 + 16.0°
Efficiency 85 %
Peak intensity 4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



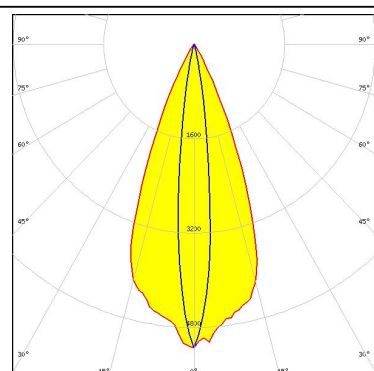
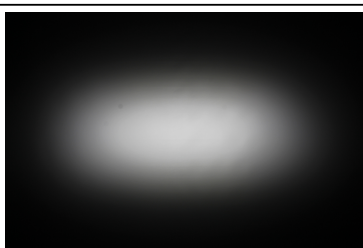
LED LUXEON Z ES
FWHM 36.0 + 13.0°
Efficiency 85 %
Peak intensity 5.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



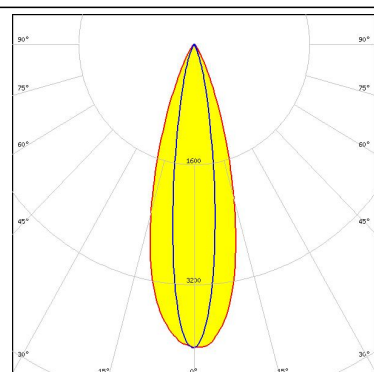
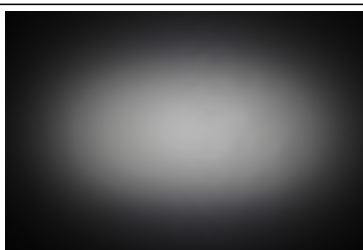
LED OSLON Black Flat
FWHM 31.0 + 12.0°
Efficiency 87 %
Peak intensity 6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

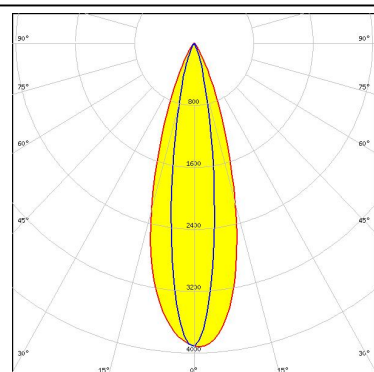
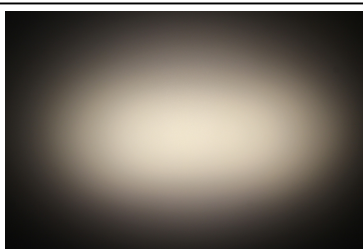
OSRAM Opto Semiconductors

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



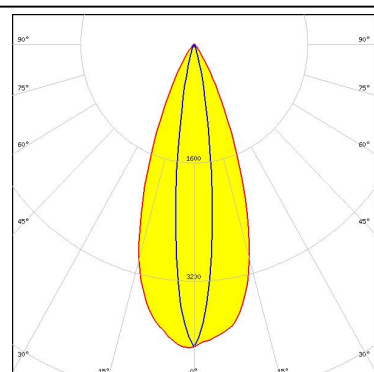
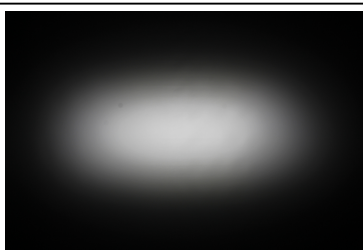
OSRAM Opto Semiconductors

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



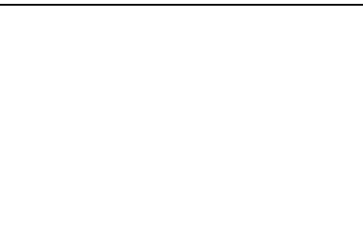
OSRAM Opto Semiconductors

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



OSRAM Opto Semiconductors

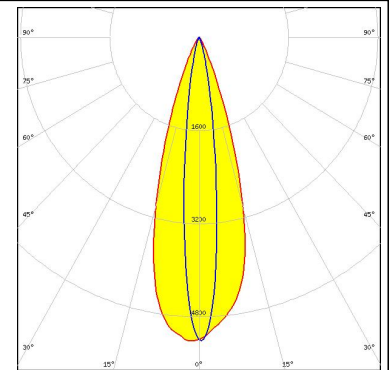
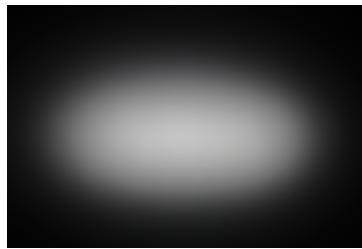
LED OSLON Square PC
FWHM 33.0 + 13.0°
Efficiency 87 %
Peak intensity 3.8 cd/Im
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

OSRAM
Opto Semiconductors

LED OSLON SSL 150
FWHM 33.0 + 13.0°
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 38.0 + 13.0°
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 35.0 + 12.0°
Efficiency 86 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:

OSRAM
Opto Semiconductors

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

PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors

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

OSRAM Opto Semiconductors

LED SFH 4715S
FWHM 40.0 + 16.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:

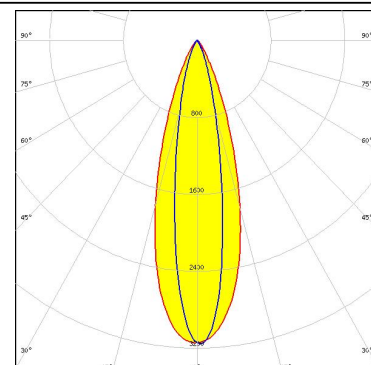
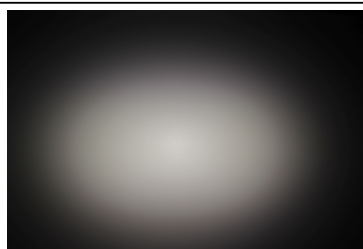
OSRAM Opto Semiconductors

LED SFH 4725S
FWHM 31.0 + 16.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:



SEOUL SEMICONDUCTOR

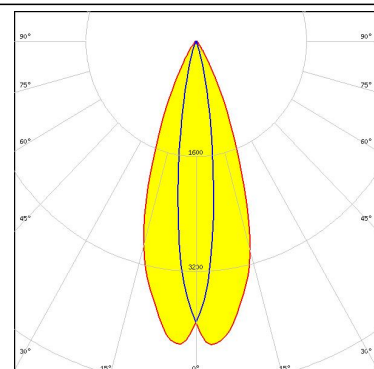
LED Z5M3
FWHM 33.0 + 19.0°
Efficiency 82 %
Peak intensity 3.2 cd/Im
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):



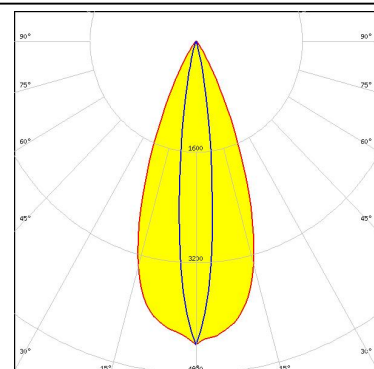
LED LUXEON C
FWHM 14.0 + 37.0°
Efficiency 93 %
Peak intensity 4.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



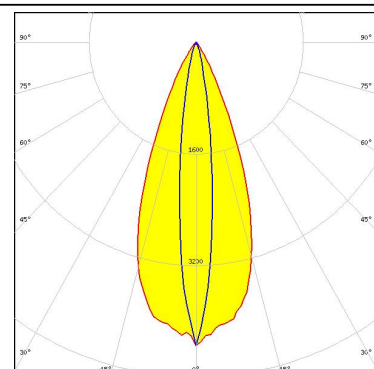
LED LUXEON IR Compact
FWHM 37.0 + 13.0°
Efficiency 82 %
LEDs/each optic 1
Light colour White
Required components:



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



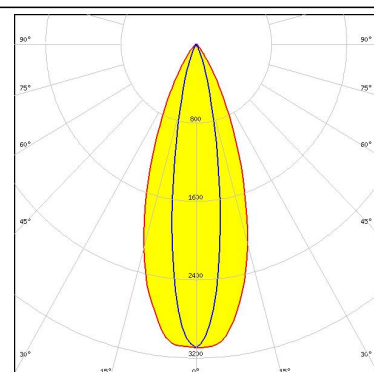
LED NFSx757G
FWHM 41.0 + 13.0°
Efficiency 90 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



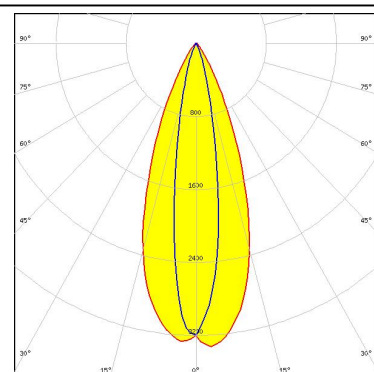
PHOTOMETRIC DATA (SIMULATED):



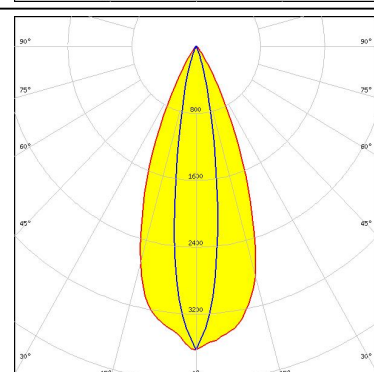
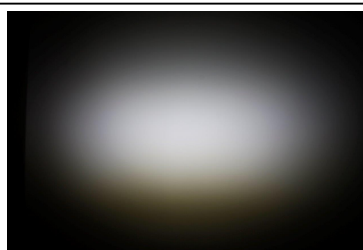
LED NVSxx19B/NVSxx19C
FWHM 39.0 + 18.0°
Efficiency 85 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



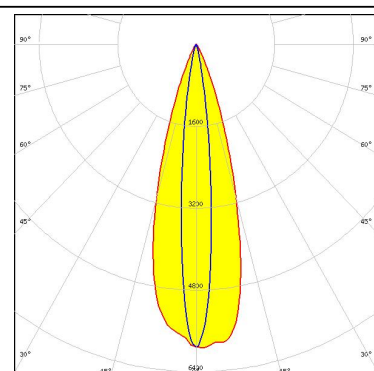
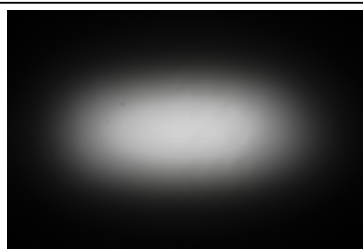
LED NVSxx19B/NVSxx19C
FWHM 39.0 + 17.0°
Efficiency 86 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



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



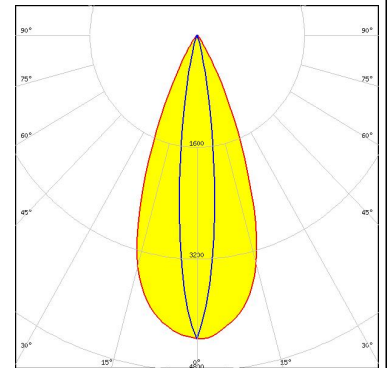
LED OSLO Black Flat
FWHM 31.0 + 12.0°
Efficiency 87 %
Peak intensity 6.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors

LED SFH 4715S
FWHM $42.0 + 14.0^\circ$
Efficiency 90 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:

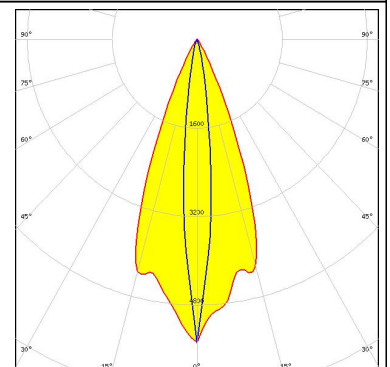


OSRAM Opto Semiconductors

LED SFH 4770S
FWHM $41.0 + 16.0^\circ$
Efficiency 85 %
Peak intensity 3.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:

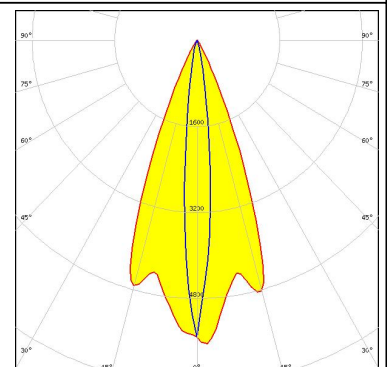
OSRAM Opto Semiconductors

LED Synios P2720 1 mm
FWHM $41.0 + 11.0^\circ$
Efficiency 91 %
Peak intensity 5.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM Opto Semiconductors

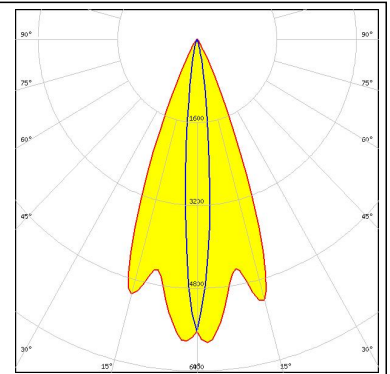
LED Synios P2720 1/2 mm
FWHM $41.0 + 10.0^\circ$
Efficiency 91 %
Peak intensity 5.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

LED Synios P2720 1/4 mm
FWHM 41.0 + 9.0°
Efficiency 91 %
Peak intensity 6 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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Local sales and technical support

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)

Shipping locations

Salo, Finland
Hong Kong, China

Distribution Partners

[www.ledil.com/
where_to_buy](http://www.ledil.com/where_to_buy)