

TINA2-O

~35° + 15° oval beam optimized for CREE XP-E.
Assembly with holder, installation tape and location pins.

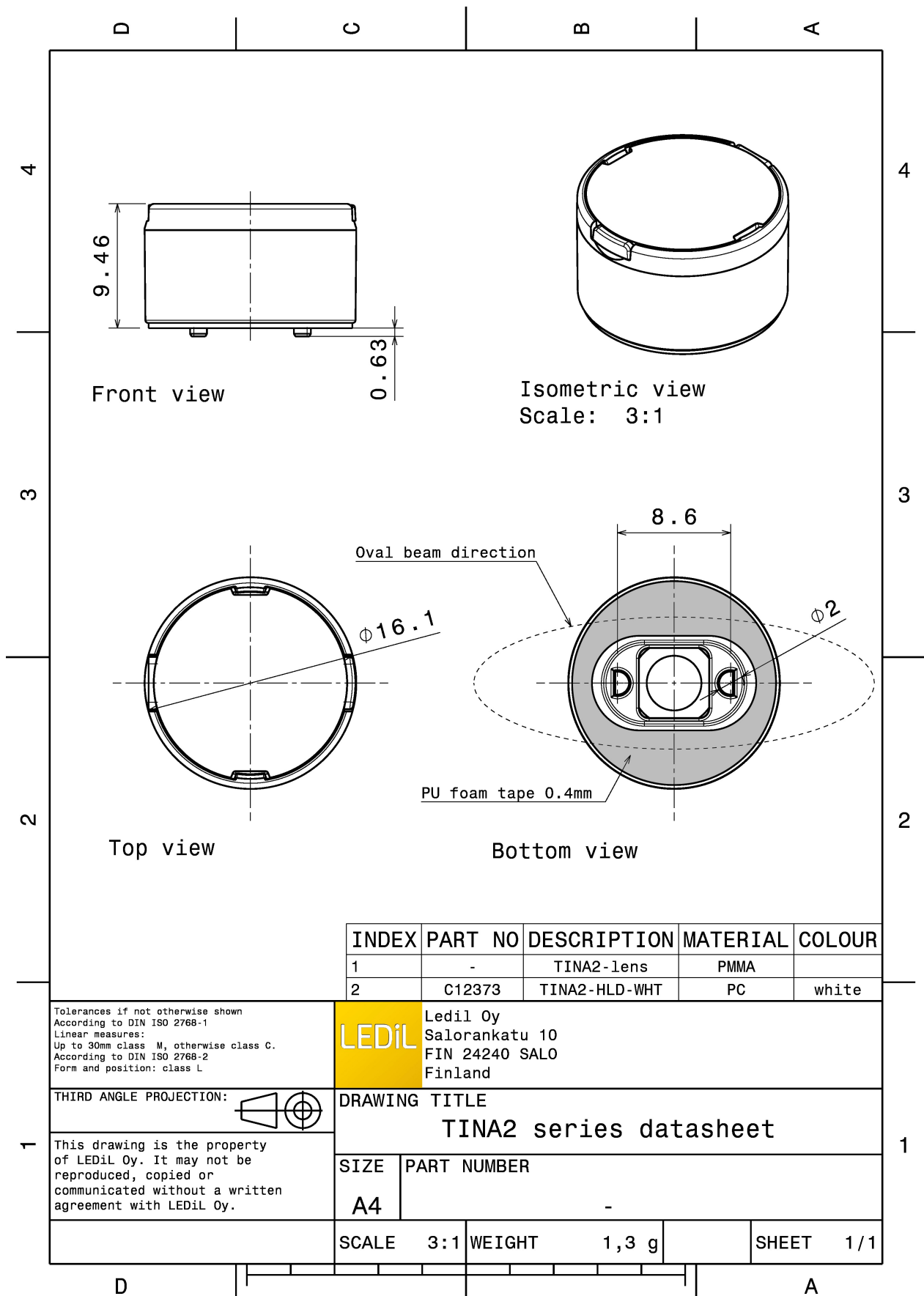
TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.0 mm
Height	9.5 mm
Fastening	tape, pin
Colour	black
Box size	451 x 241 x 298 mm
Box weight	8.5 kg
Quantity in Box	4140 pcs
ROHS compliant	yes ⓘ



MATERIAL SPECIFICATIONS:

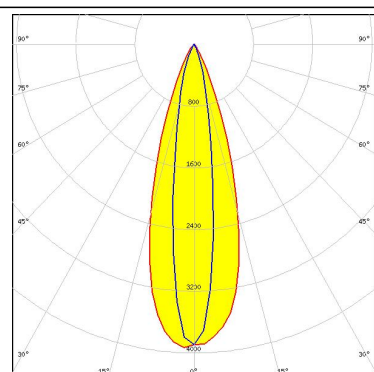
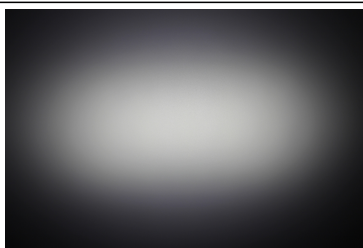
Component	Type	Material	Colour
TINA2-XP-O	Single lens	PMMA	clear
TINA2-HLD-BLK	Holder	PC	black
TINA-TAPE3	Tape	PU tape	black



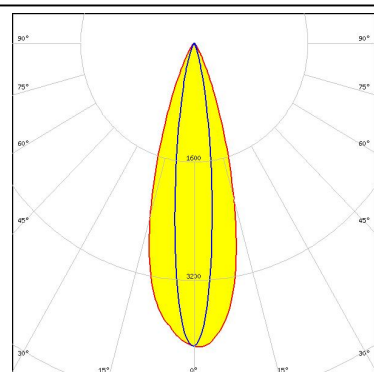
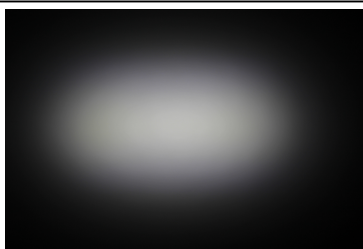
PHOTOMETRIC DATA (MEASURED):



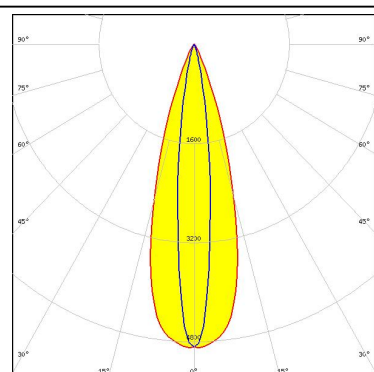
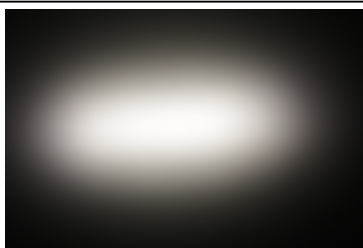
LED XB-H
FWHM $34.0 + 17.0^\circ$
Efficiency 84 %
Peak intensity 3.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:



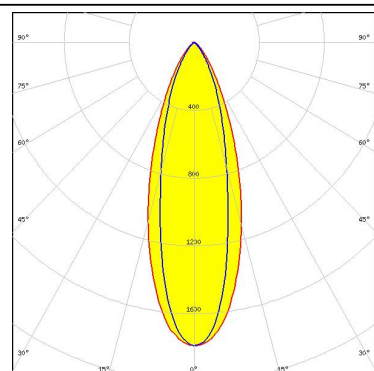
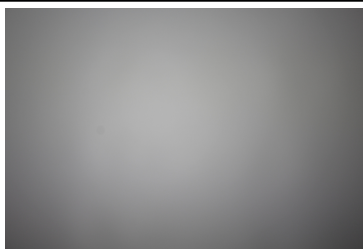
LED XD16
FWHM $32.0 + 15.0^\circ$
Efficiency 80 %
Peak intensity 4.100 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XQ-E HI
FWHM $33.0 + 13.0^\circ$
Efficiency 80 %
Peak intensity 5.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



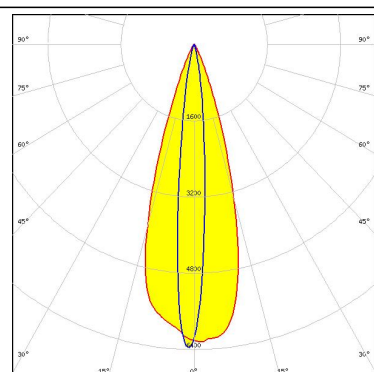
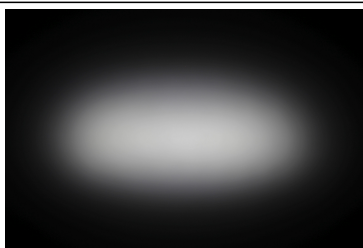
LED LUXEON 5050
FWHM $36.0 + 28.0^\circ$
Efficiency 80 %
Peak intensity 1.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:



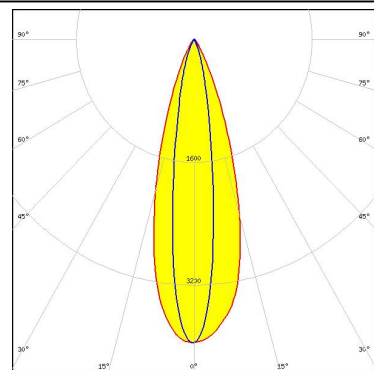
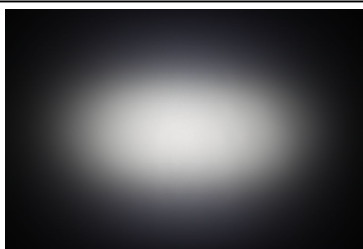
PHOTOMETRIC DATA (MEASURED):



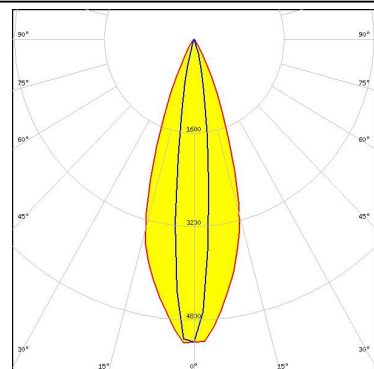
LED LUXEON CZ
FWHM 32.0 + 10.0°
Efficiency 88 %
Peak intensity 6.400 cd/lm
LEDs/each optic 1
Light colour White
Required components:



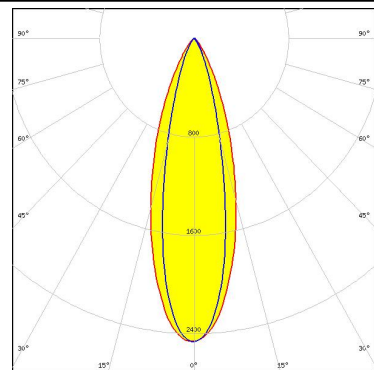
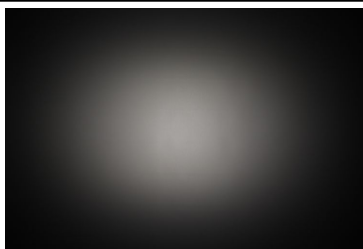
LED LUXEON TX
FWHM 32.0 + 16.0°
Efficiency 85 %
Peak intensity 3.960 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON Z ES
FWHM 36.0 + 13.0°
Efficiency 85 %
Peak intensity 5.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



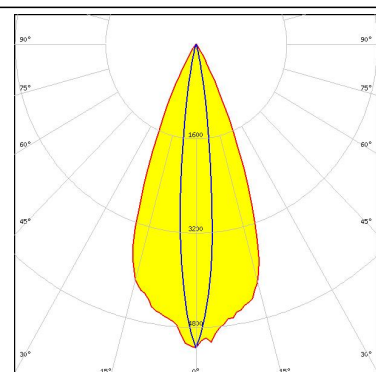
LED NWSx229A
FWHM 33.0 + 24.0°
Efficiency 82 %
Peak intensity 2.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (MEASURED):

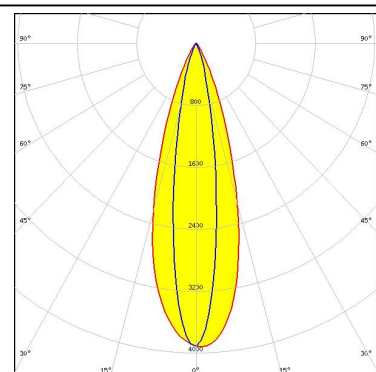
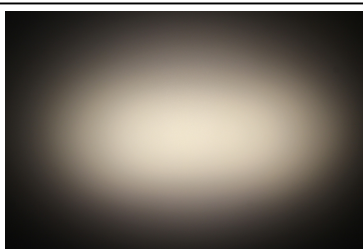
OSRAM
Opto Semiconductors

LED Oslon Black Flat
FWHM $31.0 + 12.0^\circ$
Efficiency 87 %
Peak intensity 6.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



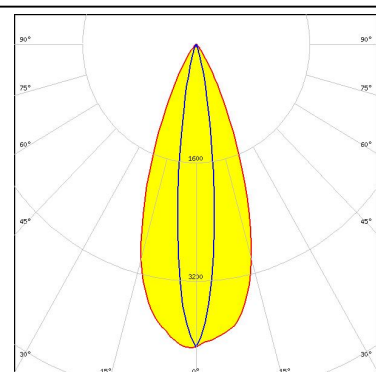
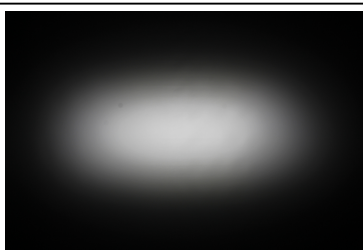
OSRAM
Opto Semiconductors

LED Oslon Square EC
FWHM $33.0 + 17.0^\circ$
Efficiency 84 %
Peak intensity 3.920 cd/lm
LEDs/each optic 1
Light colour White
Required components:



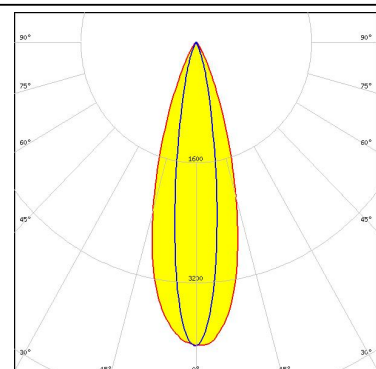
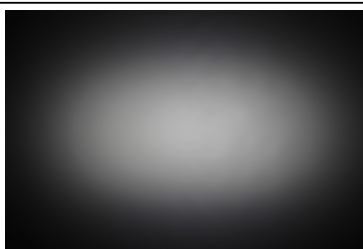
OSRAM
Opto Semiconductors

LED Oslon Square Flat
FWHM $31.0 + 12.0^\circ$
Efficiency 87 %
Peak intensity 5.900 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM
Opto Semiconductors

LED Oslon Square Gen3
FWHM $32.0 + 16.0^\circ$
Efficiency 87 %
Peak intensity 4.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



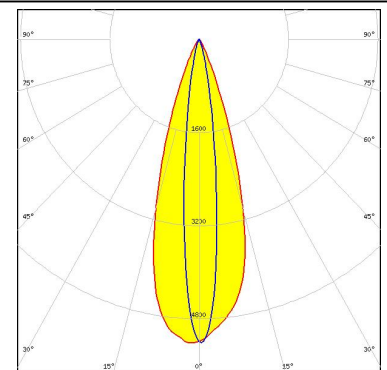
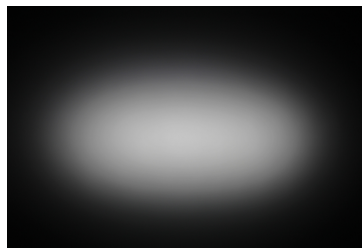
PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors

LED Oslon Square PC
FWHM $33.0 + 13.0^\circ$
Efficiency 87 %
Peak intensity 3.750 cd/lm
LEDs/each optic 1
Light colour White
Required components:

OSRAM Opto Semiconductors

LED Oslon SSL 150
FWHM $33.0 + 13.0^\circ$
Efficiency 86 %
Peak intensity 5.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM Opto Semiconductors

LED Oslon SSL 150
FWHM $38.0 + 13.0^\circ$
Efficiency 87 %
Peak intensity 3.700 cd/lm
LEDs/each optic 1
Light colour White
Required components:

OSRAM Opto Semiconductors

LED Oslon SSL 80
FWHM $35.0 + 12.0^\circ$
Efficiency 86 %
Peak intensity 3.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:

PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors

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

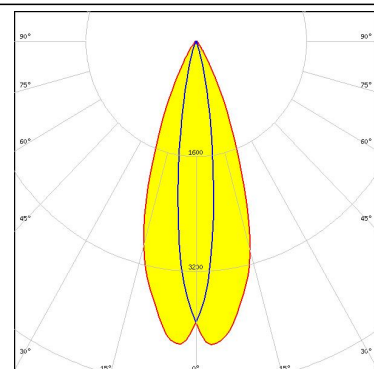
OSRAM Opto Semiconductors

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

PHOTOMETRIC DATA (SIMULATED):



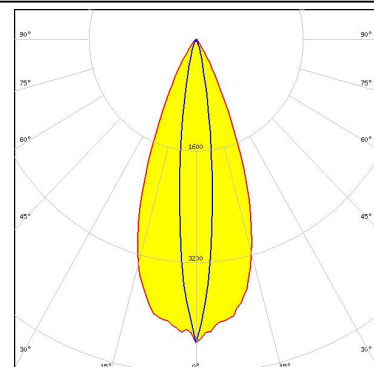
LED LUXEON C
FWHM 14.0 + 37.0°
Efficiency 93 %
Peak intensity 4.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



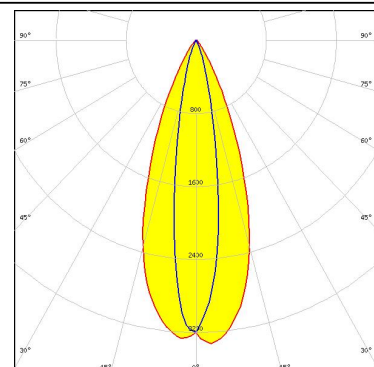
LED LUXEON IR Compact
FWHM 37.0 + 13.0°
Efficiency 82 %
Peak intensity 0.000 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NFSx757G
FWHM 41.0 + 13.0°
Efficiency 90 %
Peak intensity 4.350 cd/lm
LEDs/each optic 1
Light colour White
Required components:



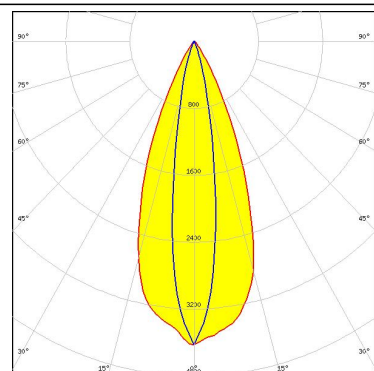
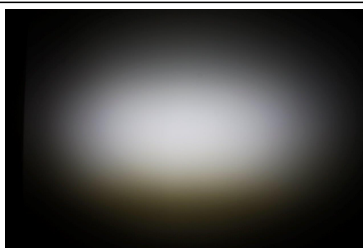
LED NVSxx19B/NVSxx19C
FWHM 39.0 + 17.0°
Efficiency 86 %
Peak intensity 3.300 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

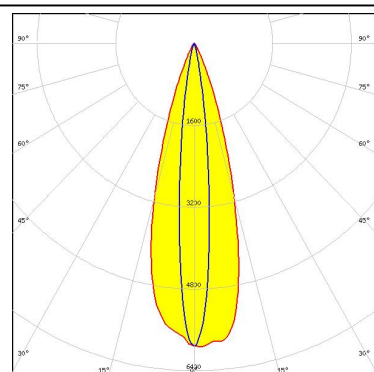
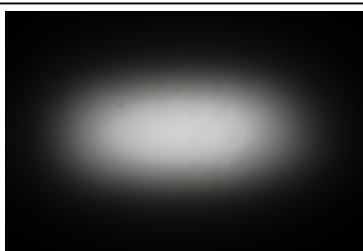
OSRAM Opto Semiconductors

LED Duris S5 (2 chip)
FWHM $41.0 + 17.0^\circ$
Efficiency 91 %
Peak intensity 3.630 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM Opto Semiconductors

LED Oslon Black Flat
FWHM $31.0 + 12.0^\circ$
Efficiency 87 %
Peak intensity 6.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



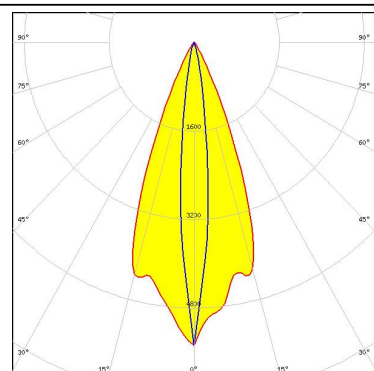
OSRAM Opto Semiconductors

LED SFH 4770S
FWHM $41.0 + 16.0^\circ$
Efficiency 85 %
Peak intensity 3.500 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM Opto Semiconductors

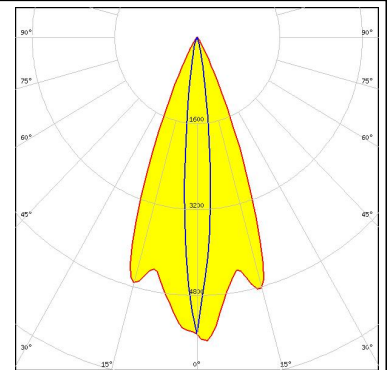
LED Synios P2720 1 mm
FWHM $41.0 + 11.0^\circ$
Efficiency 91 %
Peak intensity 5.480 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

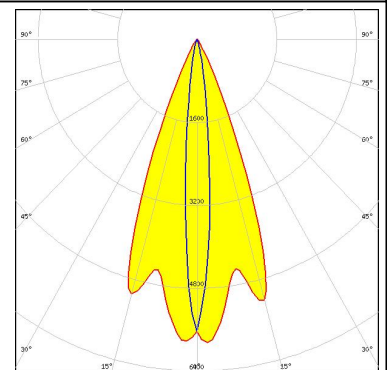
OSRAM Opto Semiconductors

LED Synios P2720 1/2 mm
FWHM $41.0 + 10.0^\circ$
Efficiency 91 %
Peak intensity 5.650 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM Opto Semiconductors

LED Synios P2720 1/4 mm
FWHM $41.0 + 9.0^\circ$
Efficiency 91 %
Peak intensity 5.970 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

Salu, Finland
Hong Kong, China

Distribution Partners

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