

TINA2-O

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

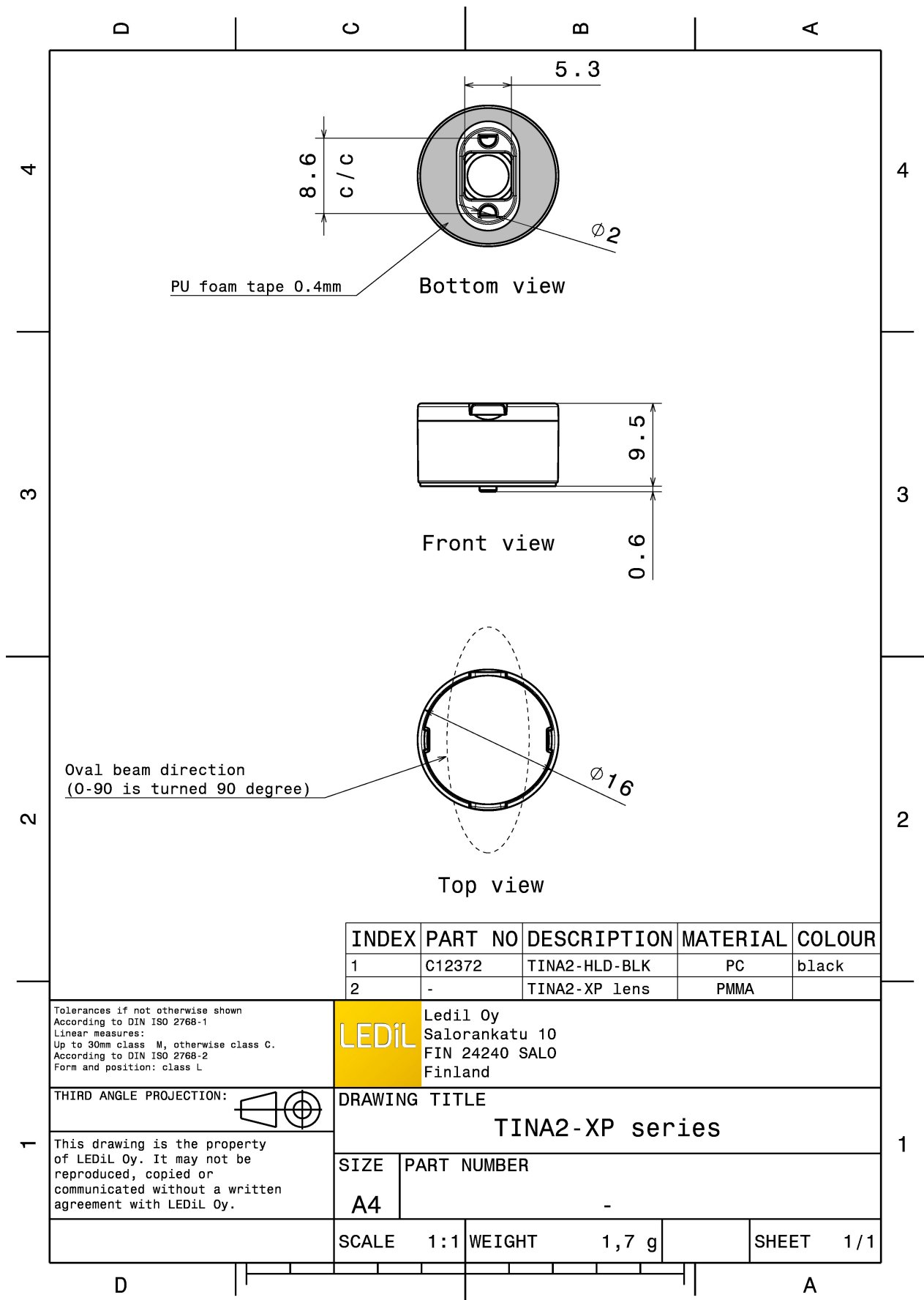
TECHNICAL SPECIFICATIONS:

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:

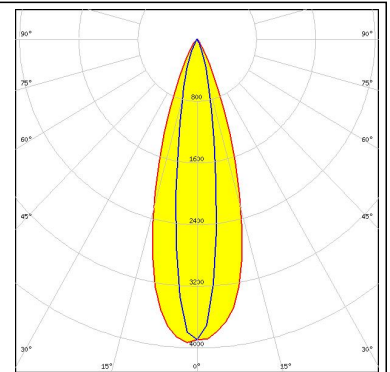
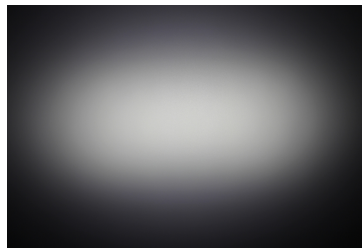
Component	Type	Material	Colour
TINA2-XP-O	Single lens	PMMA	clear
TINA2-HLD-BLK	Holder	PC	black
TINA-TAPE3	Tape	PU tape	black



PHOTOMETRIC DATA (MEASURED):

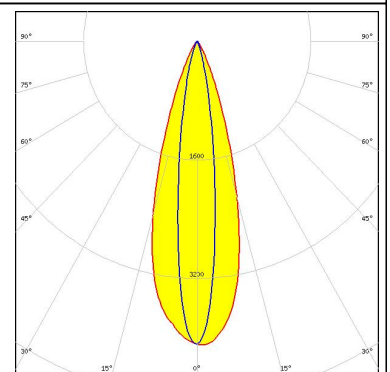
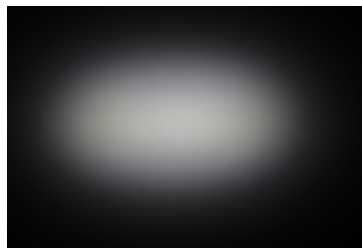
CREE

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



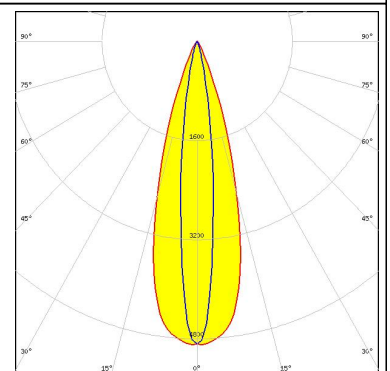
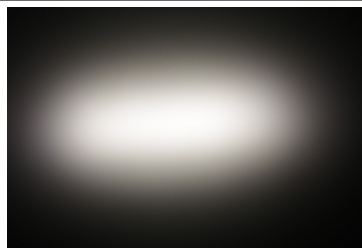
CREE

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



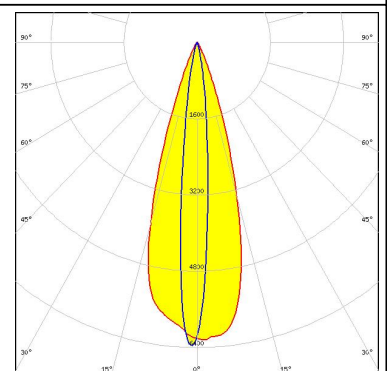
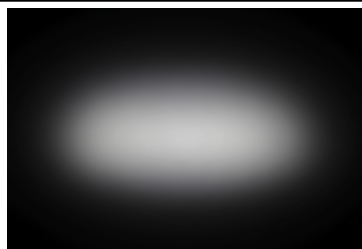
CREE

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



LUMILEDS

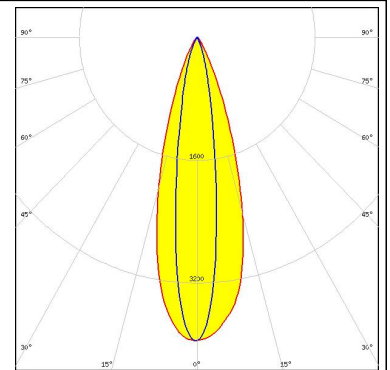
LED LUXEON CZ
 FWHM 32.0 + 10.0°
 Efficiency 88 %
 Peak intensity 6.400 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):

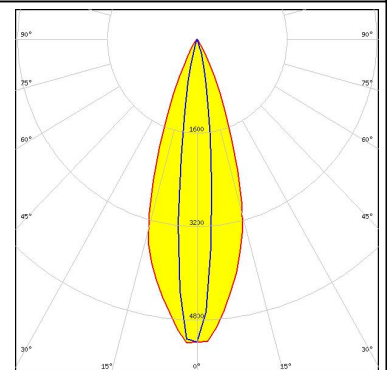
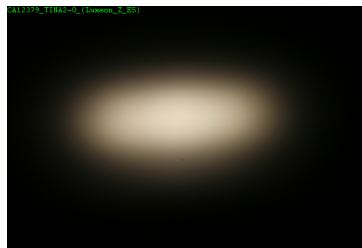
LUMILEDS

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:



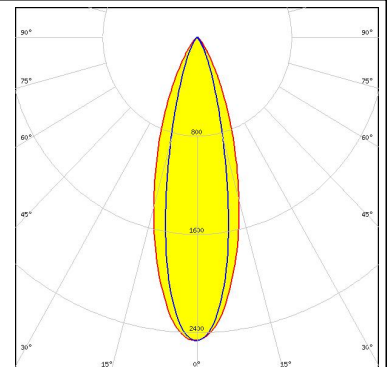
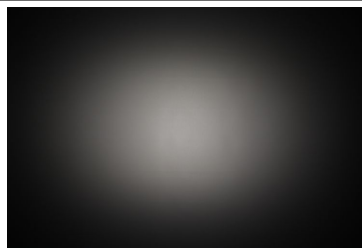
LUMILEDS

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:



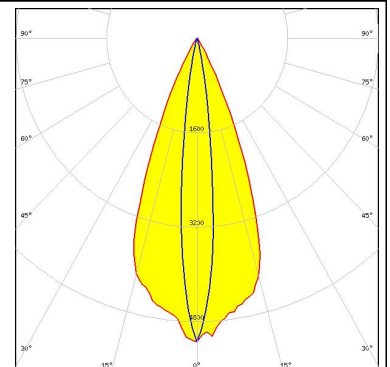
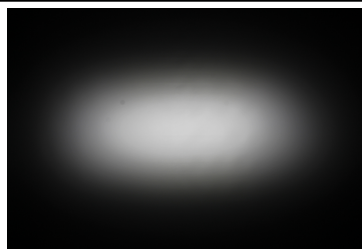
NICHIA

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



OSRAM Opto Semiconductors

LED OSOLON Black Flat
 FWHM 31.0 + 12.0°
 Efficiency 87 %
 Peak intensity 6.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

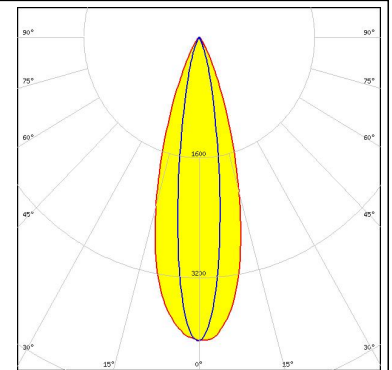


PHOTOMETRIC DATA (MEASURED):

OSRAM

Opto Semiconductors

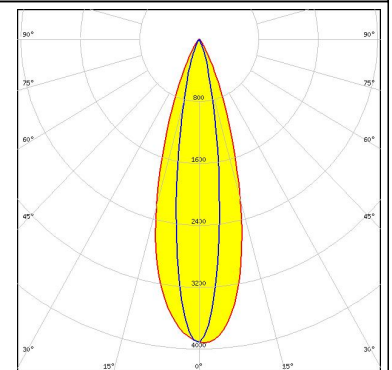
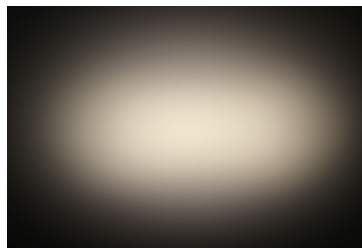
LED OSLON Square CSSRM2/CSSRM3
 FWHM 32.0 + 16.0°
 Efficiency 87 %
 Peak intensity 4.000 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

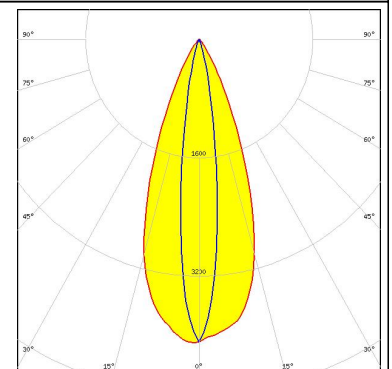
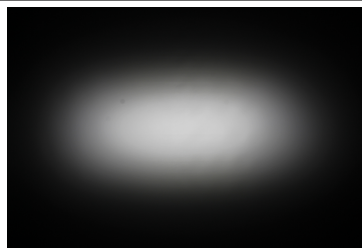
LED OSLON Square EC
 FWHM 33.0 + 17.0°
 Efficiency 84 %
 Peak intensity 3.920 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

LED OSLON Square Flat
 FWHM 31.0 + 12.0°
 Efficiency 87 %
 Peak intensity 5.900 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

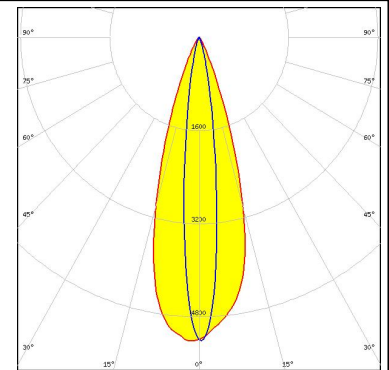
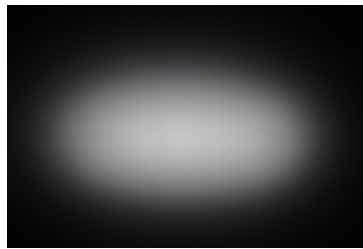
Opto Semiconductors

LED OSLON Square PC
 FWHM 33.0 + 13.0°
 Efficiency 87 %
 Peak intensity 3.750 cd/lm
 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 5.200 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 3.700 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 3.800 cd/lm
LEDs/each optic 1
Light colour White
Required components:

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:

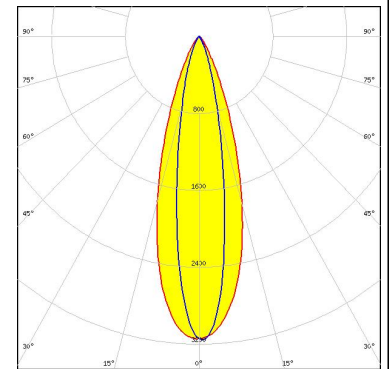
PHOTOMETRIC DATA (MEASURED):

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:

SEAGUL SEOUL SEMICONDUCTOR

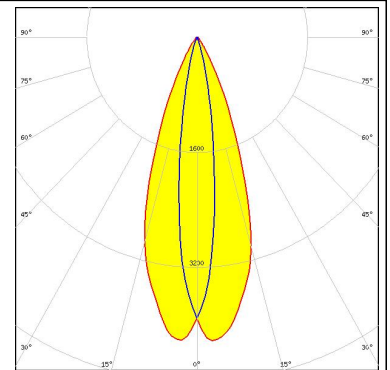
LED Z5M3
FWHM 33.0 + 19.0°
Efficiency 82 %
Peak intensity 3.200 cd/lm
LEDs/each optic 1
Light colour White
Required components:



PHOTOMETRIC DATA (SIMULATED):

LUMILEDS

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:



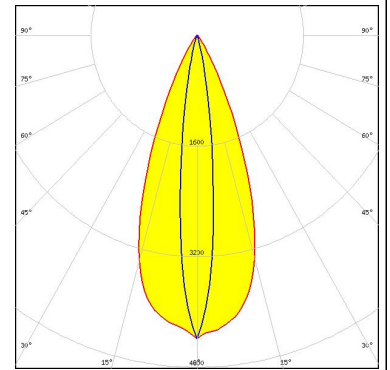
LUMILEDS

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:



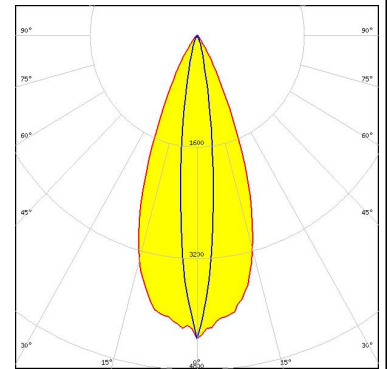
NICHIA

LED NCSxE17A
 FWHM 42.0 + 13.0°
 Efficiency 87 %
 Peak intensity 4.390 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



NICHIA

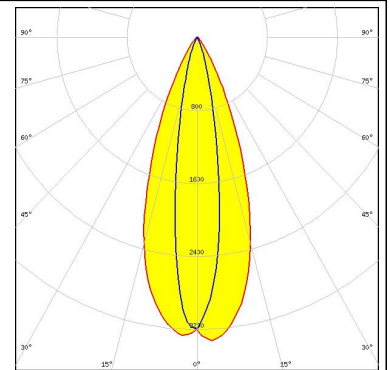
LED NFSx757G
 FWHM 41.0 + 13.0°
 Efficiency 90 %
 Peak intensity 4.350 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



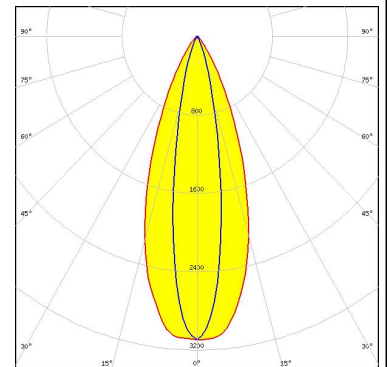
PHOTOMETRIC DATA (SIMULATED):



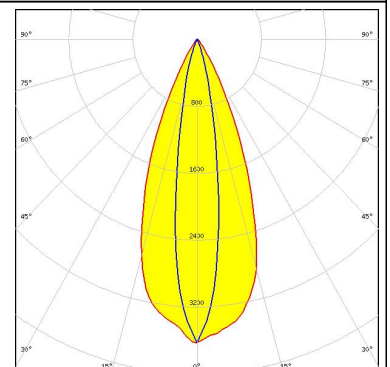
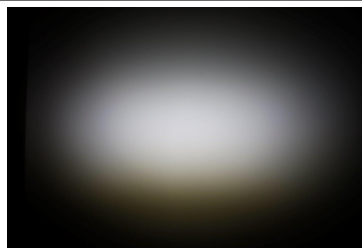
LED NVSxx19B/NVSxx19C
 FWHM 39.0 + 17.0°
 Efficiency 86 %
 Peak intensity 3.300 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



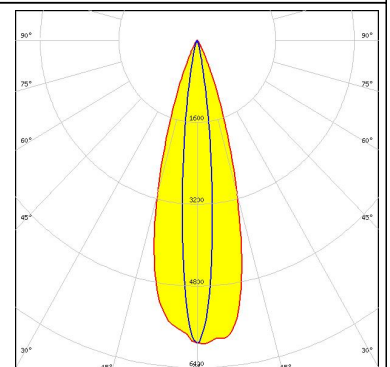
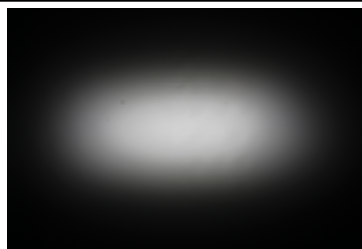
LED NVSxx19B/NVSxx19C
 FWHM 39.0 + 18.0°
 Efficiency 85 %
 Peak intensity 3.124 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



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



LED OSLOM Black Flat
 FWHM 31.0 + 12.0°
 Efficiency 87 %
 Peak intensity 6.200 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

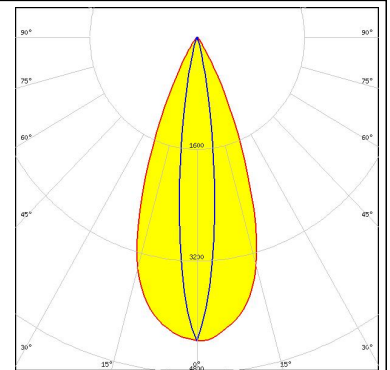


PHOTOMETRIC DATA (SIMULATED):

OSRAM

Opto Semiconductors

LED SFH 4715S
 FWHM 42.0 + 14.0°
 Efficiency 90 %
 Peak intensity 4.350 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

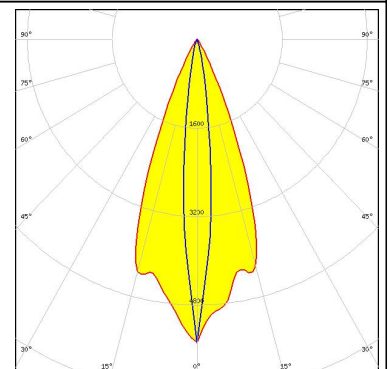
Opto Semiconductors

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

OSRAM

Opto Semiconductors

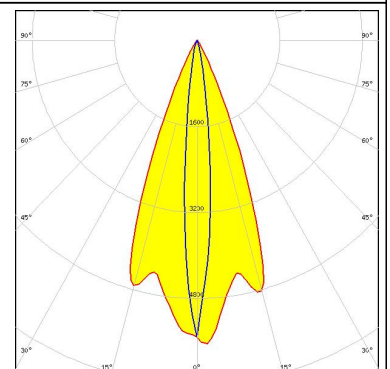
LED Synios P2720 1 mm
 FWHM 41.0 + 11.0°
 Efficiency 91 %
 Peak intensity 5.480 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

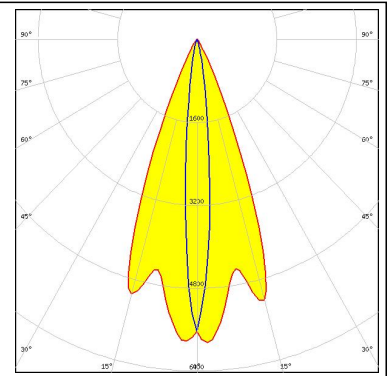
LED Synios P2720 1/2 mm
 FWHM 41.0 + 10.0°
 Efficiency 91 %
 Peak intensity 5.650 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

OSRAM
Opto Semiconductors

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

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