

TINA2-RS

~14° spot 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 ⓘ

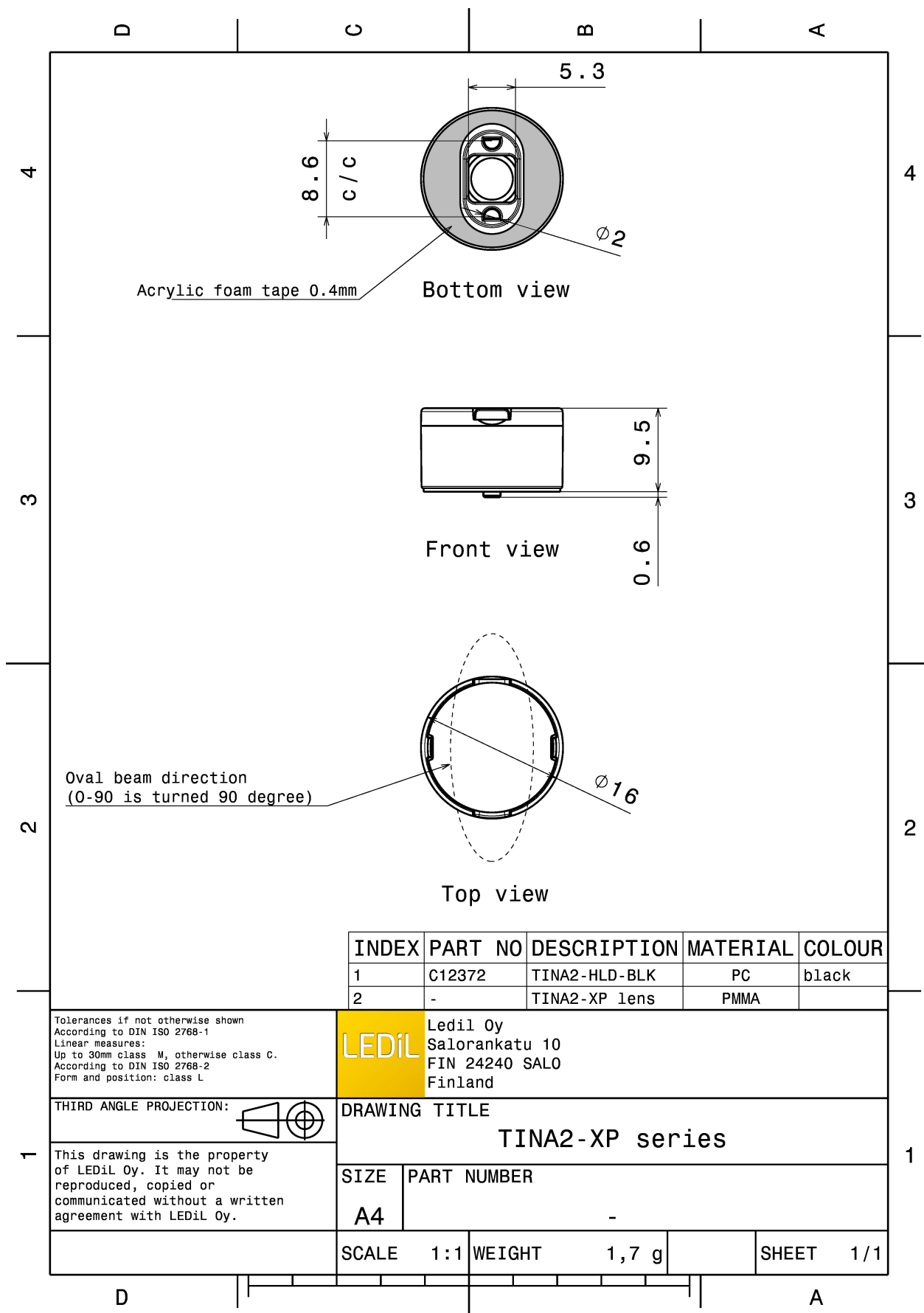


MATERIALS:

Component	Type	Material	Colour	Finish
TINA2-RS	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)
CA12374_TINA2-RS	Single lens	4140	230	230	8.3
» Box size: 451 x 241 x 298 mm					

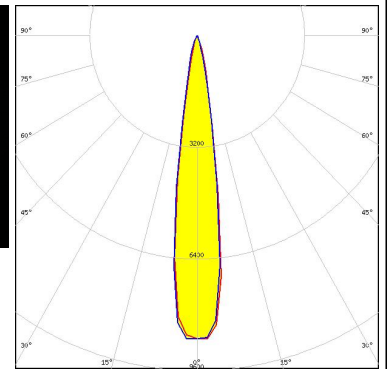


See also our general installation guide: www.ledil.com/installation_guide

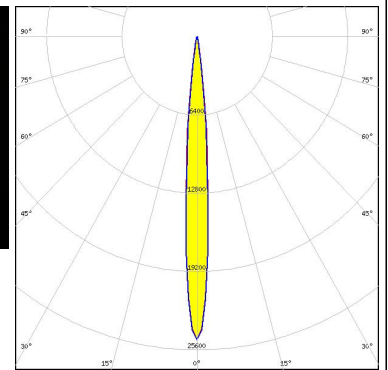
OPTICAL RESULTS (MEASURED):



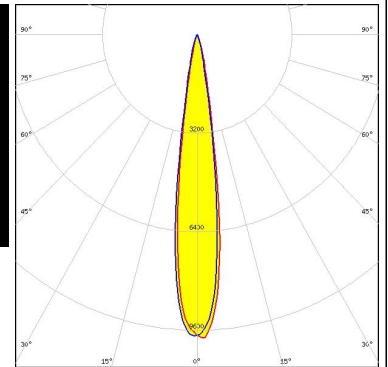
LED XB-H
FWHM / FWTM 17.0° / 30.0°
Efficiency 86 %
Peak intensity 8.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



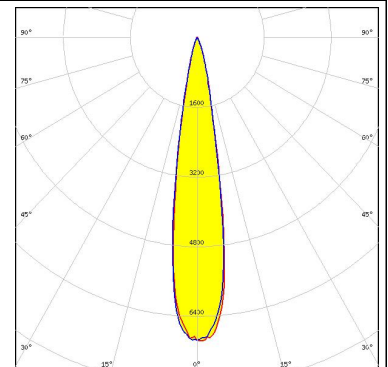
LED XQ-E HI
FWHM / FWTM 9.0° / 19.0°
Efficiency 81 %
Peak intensity 25 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON TX
FWHM / FWTM 15.0° / 27.0°
Efficiency 89 %
Peak intensity 9.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



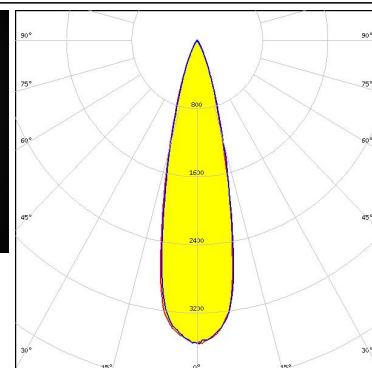
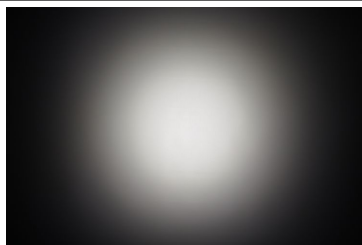
LED NVSxx19B/NVSxx19C
FWHM / FWTM 18.0° / 32.0°
Efficiency 88 %
Peak intensity 7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):



LED NWSx229A
FWHM / FWTM 25.0° / 47.0°
Efficiency 86 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



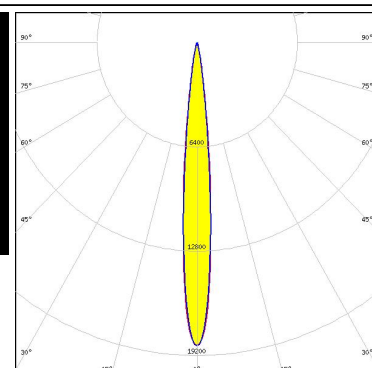
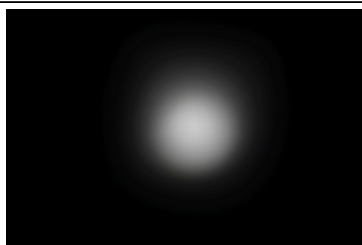
LED OSLON Square EC
FWHM / FWTM 13.0° / 26.0°
Efficiency 88 %
Peak intensity 9.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED OSLON Square PC
FWHM / FWTM 12.0° / 25.0°
Efficiency 88 %
Peak intensity 9.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED OSLON SSL 150
FWHM / FWTM 11.0° / 21.0°
Efficiency 89 %
Peak intensity 18.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

LED OSLON SSL 80
FWHM / FWTM 10.0° / 24.0°
Efficiency 88 %
Peak intensity 16 cd/lm
LEDs/each optic 1
Light colour White
Required components:

OSRAM

Opto Semiconductors

LED SFH 4180S
FWHM / FWTM 6.0° / 16.0°
Efficiency %
LEDs/each optic 1
Light colour IR
Required components:

OSRAM

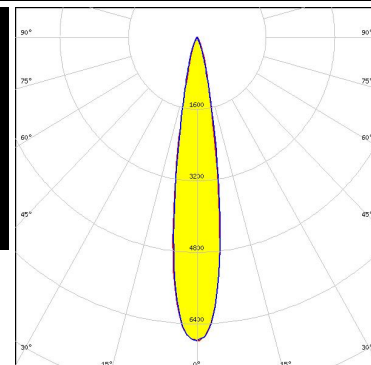
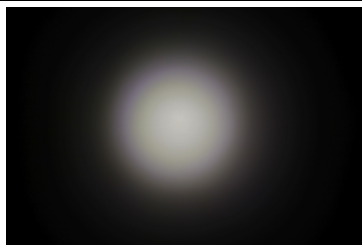
Opto Semiconductors

LED SFH 4716S
FWHM / FWTM 11.0° / 22.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:



SEOUL SEMICONDUCTOR

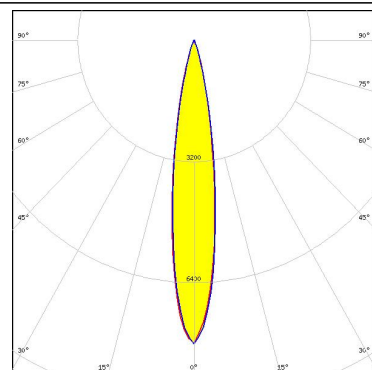
LED Z5M3
FWHM / FWTM 17.0° / 34.0°
Efficiency 87 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



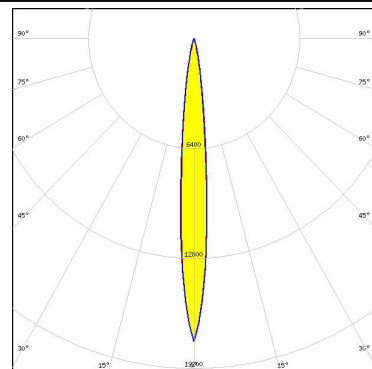
OPTICAL RESULTS (SIMULATED):



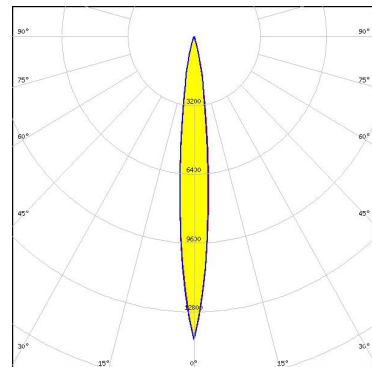
LED XB-D
FWHM / FWTM 17.0° / 33.0°
Efficiency 88 %
Peak intensity 8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



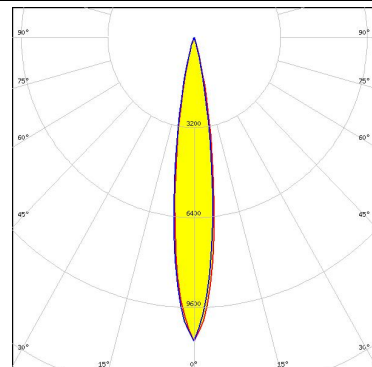
LED XE-G
FWHM / FWTM 10.0° / 23.0°
Efficiency 91 %
Peak intensity 17.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON C
FWHM / FWTM 11.0° / 26.0°
Efficiency 92 %
Peak intensity 14 cd/lm
LEDs/each optic 1
Light colour White
Required components:



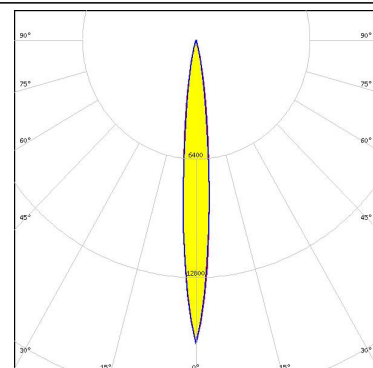
LED LUXEON CZ
FWHM / FWTM 15.0° / 29.0°
Efficiency 92 %
Peak intensity 10.8 cd/lm
LEDs/each optic 1
Light colour Red
Required components:



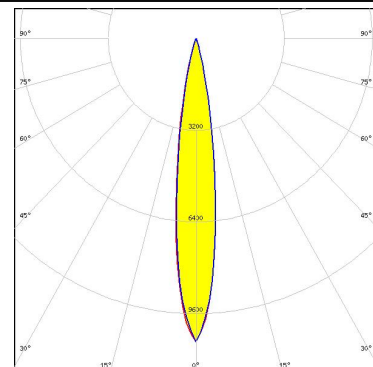
OPTICAL RESULTS (SIMULATED):



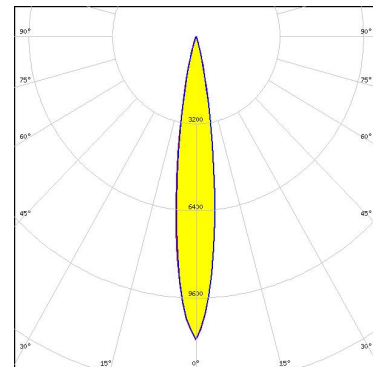
LED LUXEON IR Compact
FWHM / FWTM 10.0° / 22.0°
Efficiency 87 %
LEDs/each optic 1
Light colour IR
Required components:



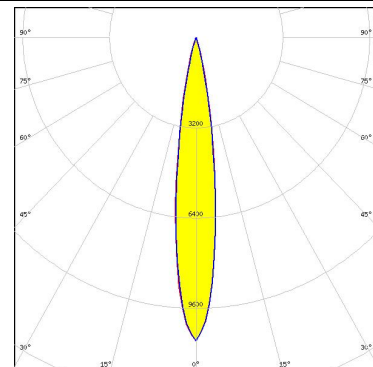
LED LUXEON Rubix
FWHM / FWTM 16.0° / 30.0°
Efficiency 92 %
Peak intensity 10.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON Rubix
FWHM / FWTM 15.0° / 29.0°
Efficiency 92 %
Peak intensity 11.1 cd/lm
LEDs/each optic 1
Light colour Red
Required components:



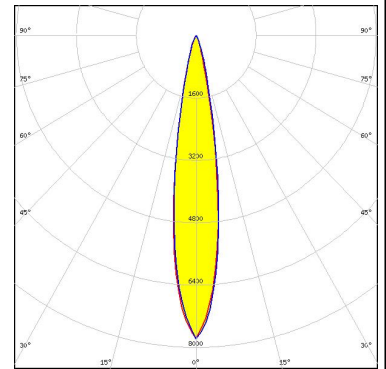
LED LUXEON Rubix
FWHM / FWTM 16.0° / 29.0°
Efficiency 92 %
Peak intensity 10.8 cd/lm
LEDs/each optic 1
Light colour Blue
Required components:



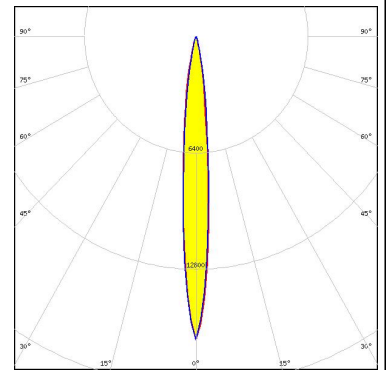
OPTICAL RESULTS (SIMULATED):



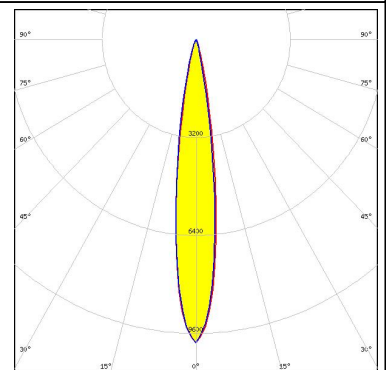
LED NF2W757H
FWHM / FWTM 18.0° / 32.0°
Efficiency 92 %
Peak intensity 7.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



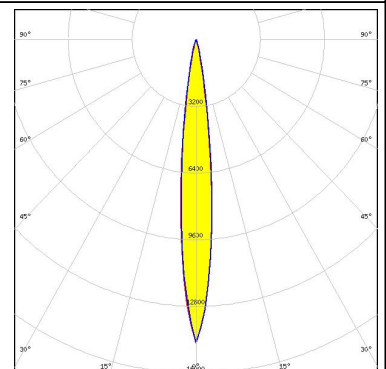
LED NFSx757G
FWHM / FWTM 10.0° / 24.0°
Efficiency 93 %
Peak intensity 16.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED Duris S5 (2 chip)
FWHM / FWTM 15.0° / 29.0°
Efficiency 92 %
Peak intensity 9.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED OSCONIQ P 3030
FWHM / FWTM 12.0° / 24.0°
Efficiency 91 %
Peak intensity 16 cd/lm
LEDs/each optic 1
Light colour Blue
Required components:

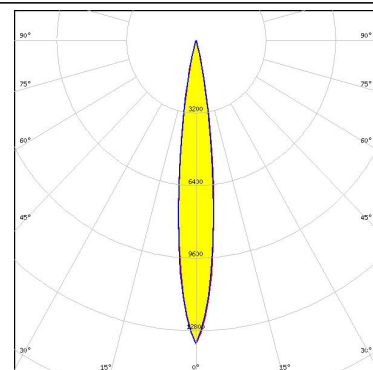


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

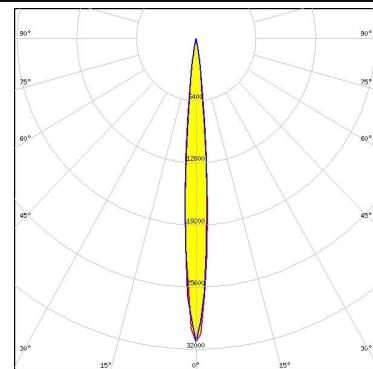
LED OSLON Black Flat (LUW HWQP)
FWHM / FWTM 14.0° / 26.0°
Efficiency 92 %
Peak intensity 13.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

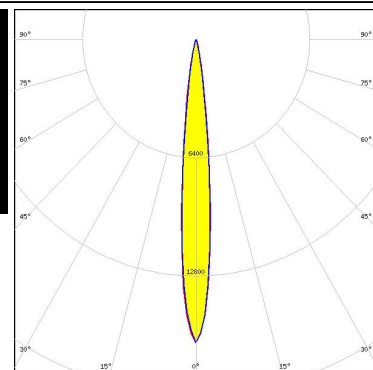
LED OSLON Black Flat (LUW HWQP)
FWHM / FWTM 8.6° / 17.0°
Efficiency 92 %
Peak intensity 32.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

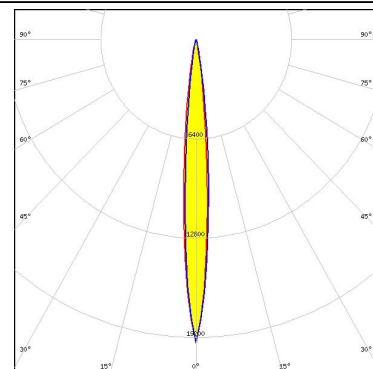
LED OSLON Square Flat
FWHM / FWTM 11.0° / 23.0°
Efficiency 91 %
Peak intensity 16.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

LED SFH 4170S
FWHM / FWTM 10.0° / 21.0°
Efficiency 81 %
LEDs/each optic 1
Light colour IR
Required components:

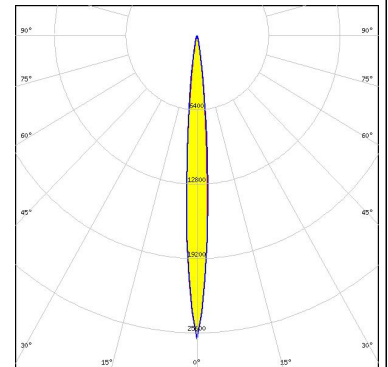
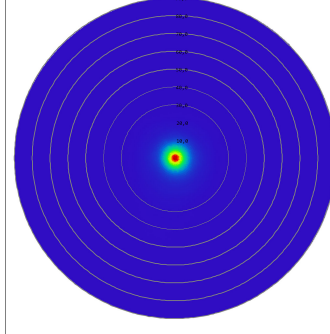


OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

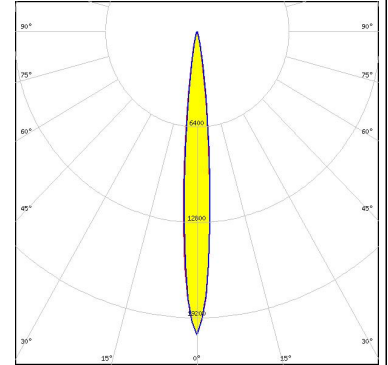
LED SFH 4770S
FWHM / FWTM 9.0° / 19.0°
Efficiency 83 %
LEDs/each optic 1
Light colour IR
Required components:

Polar intensity graph



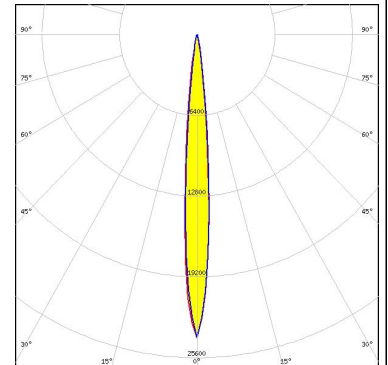
OSRAM
Opto Semiconductors

LED Synios P2720 1 mm
FWHM / FWTM 10.0° / 20.0°
Efficiency 92 %
Peak intensity 20.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



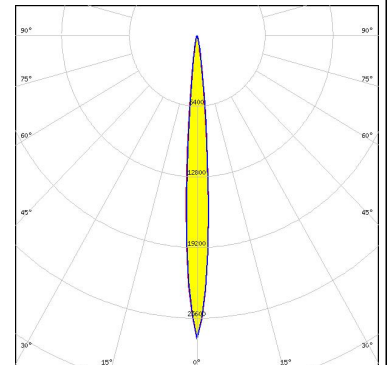
OSRAM
Opto Semiconductors

LED Synios P2720 1/2 mm
FWHM / FWTM 9.0° / 18.0°
Efficiency 92 %
Peak intensity 24 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM
Opto Semiconductors

LED Synios P2720 1/4 mm
FWHM / FWTM 8.0° / 17.0°
Efficiency 92 %
Peak intensity 27.5 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:

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