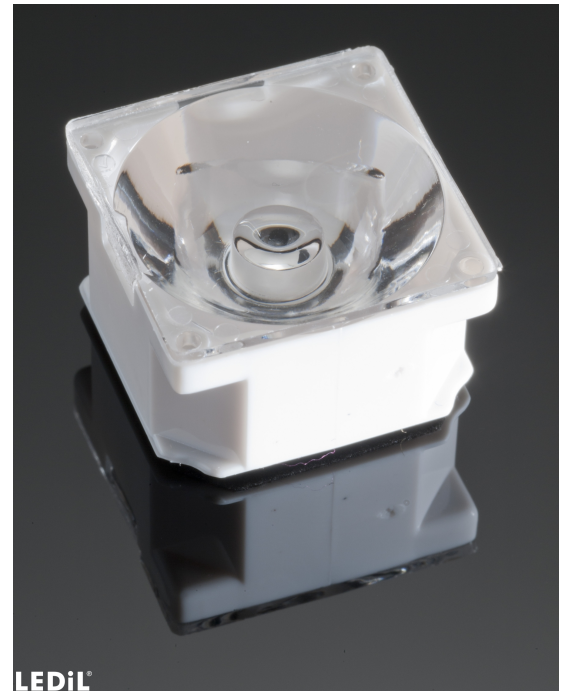


LAURA-RS-PIN

~8° spot beam optimized for CREE XP-E.
Assembly with white holder, installation tape
and location pins.

SPECIFICATION:

Dimensions	21.6 x 21.6 mm
Height	13.1 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

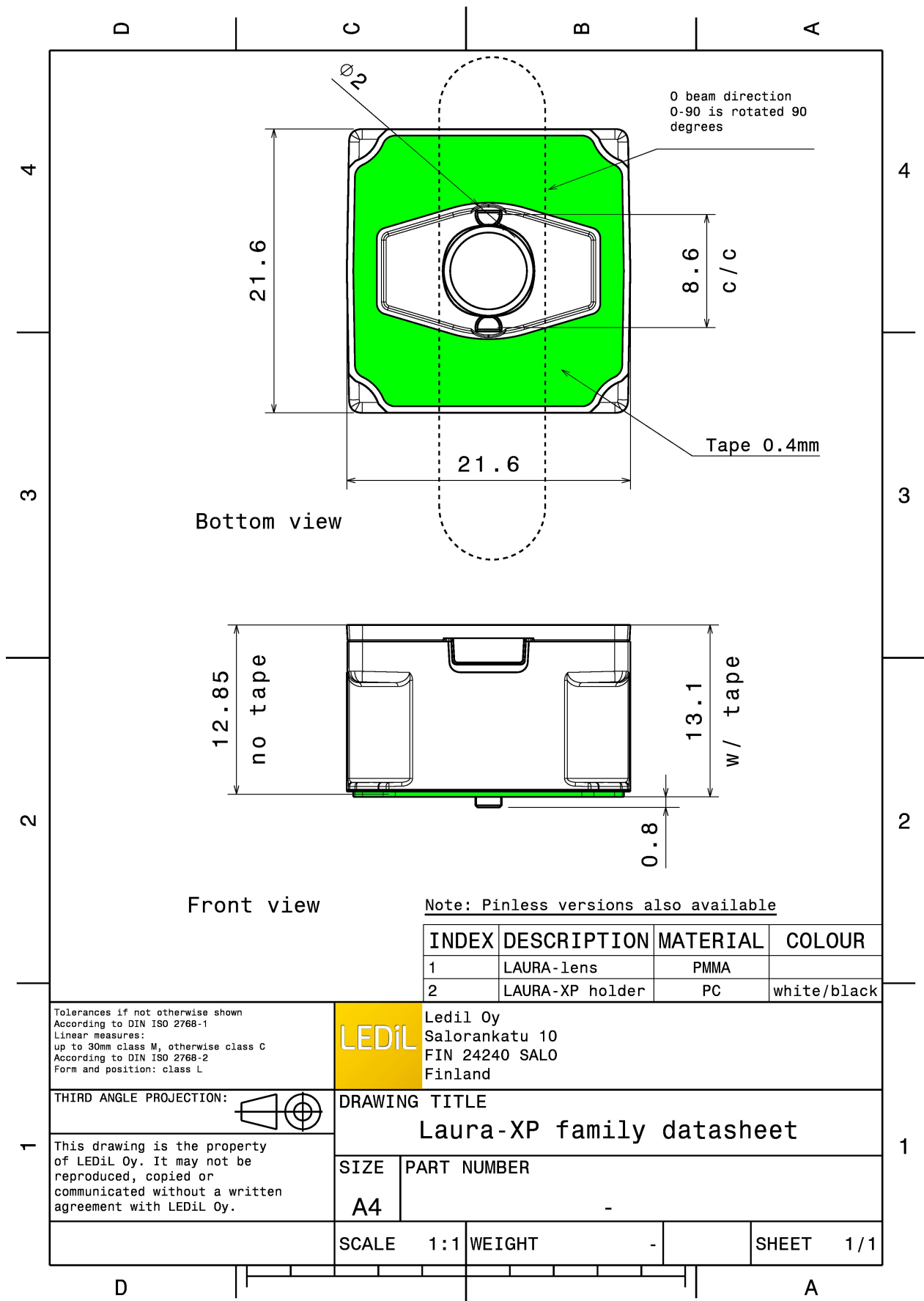


MATERIALS:

Component	Type	Material	Colour	Finish
LAURA-RS	Single lens	PMMA	clear	
LAURA-PIN-XP-HLD-WHT	Holder	PC	white	
ROSE-TAPE	Tape	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11959_LAURA-RS-PIN	Single lens	1440	360	180	7.6
» Box size:					



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

OPTICAL RESULTS (MEASURED):



LED XP-E
FWHM / FWTM 8.0° / 16.0°
Efficiency 93 %
Peak intensity 33.2 cd/lm
LEDs/each optic 1
Light colour White
Required components:



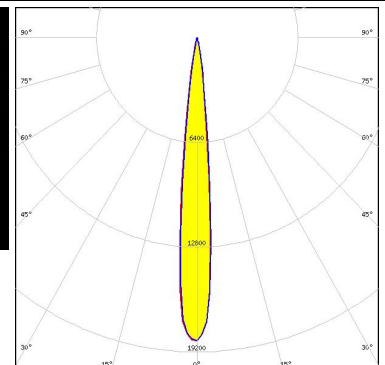
LED XP-G
FWHM / FWTM 11.0°
Efficiency 93 %
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON Rebel
FWHM / FWTM 7.0° / 16.0°
Efficiency 93 %
Peak intensity 34 cd/lm
LEDs/each optic 1
Light colour White
Required components:



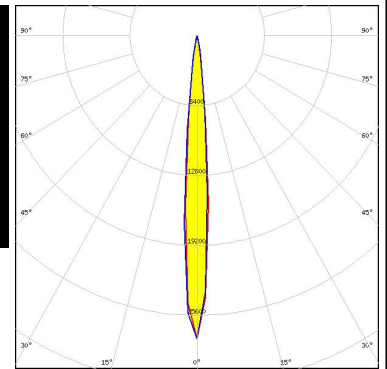
LED LUXEON T
FWHM / FWTM 11.0° / 21.0°
Efficiency 92 %
Peak intensity 18.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):



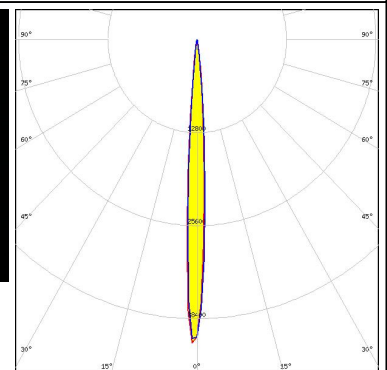
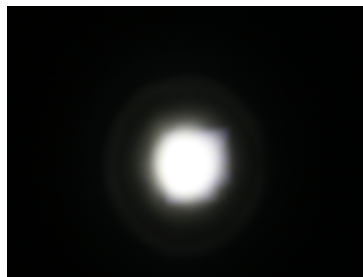
LED NCSxx19B
FWHM / FWTM 10.0° / 19.0°
Efficiency 91 %
Peak intensity 27.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED OSLON Square EC
FWHM / FWTM 9.0° / 18.0°
Efficiency 93 %
Peak intensity 20 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED OSLON SSL 150
FWHM / FWTM 7.0° / 14.0°
Efficiency 92 %
Peak intensity 42 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED SFH 4725S
FWHM / FWTM 10.0° / 21.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:

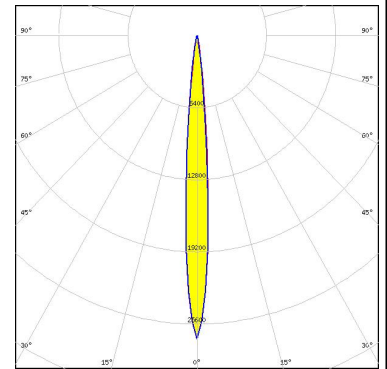
OPTICAL RESULTS (MEASURED):

 SEOUL SEMICONDUCTOR	
LED	Z5
FWHM / FWTM	7.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	

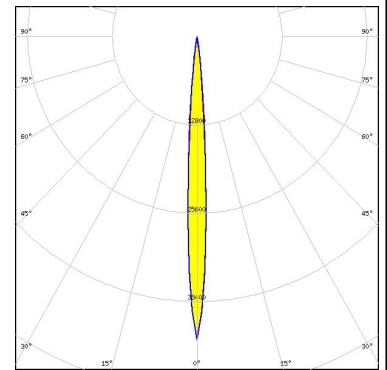
OPTICAL RESULTS (SIMULATED):



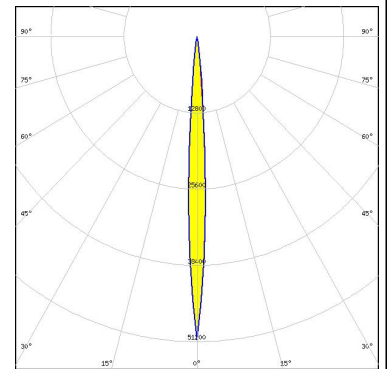
LED XD16
FWHM / FWTM 8.6° / 18.0°
Efficiency 94 %
Peak intensity 26.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



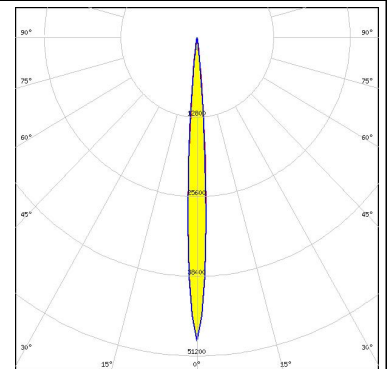
LED XP-E2
FWHM / FWTM 8.0° / 14.0°
Efficiency 95 %
Peak intensity 44 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XP-P
FWHM / FWTM 6.0° / 14.0°
Efficiency 96 %
Peak intensity 50.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



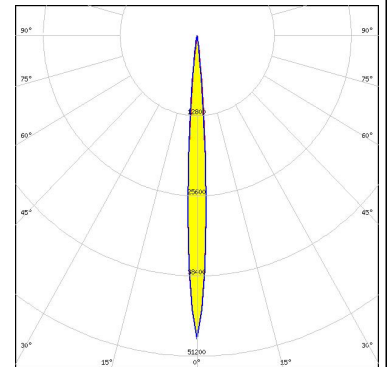
LED XQ-E HD
FWHM / FWTM 8.0° / 14.0°
Efficiency 93 %
Peak intensity 48.8 cd/lm
LEDs/each optic 1
Light colour Green
Required components:



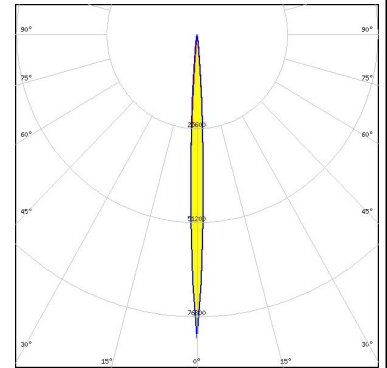
OPTICAL RESULTS (SIMULATED):



LED XQ-E HD
FWHM / FWTM 6.0° / 14.0°
Efficiency 94 %
Peak intensity 48.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XQ-E HI
FWHM / FWTM 6.0° / 10.0°
Efficiency 93 %
Peak intensity 82.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON H50-2
FWHM / FWTM 12.0° / 23.0°
Efficiency 92 %
Peak intensity 16.3 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON IR Domed 150 (L110-0xxx150000000)
FWHM / FWTM 9.0° / 18.0°
Efficiency 0 %
LEDs/each optic 1
Light colour White
Required components:

OPTICAL RESULTS (SIMULATED):



LED LUXEON IR Domed 60 (L110-0xxx060000000)

FWHM / FWTM 9.2° / 20.0°

Efficiency 94 %

LEDs/each optic 1

Light colour White

Required components:



LED LUXEON IR Domed 90 (L110-0xxx090000000)

FWHM / FWTM 9.0° / 18.0°

Efficiency 94 %

LEDs/each optic 1

Light colour White

Required components:



LED LUXEON Z ES

FWHM / FWTM 8.0° / 15.0°

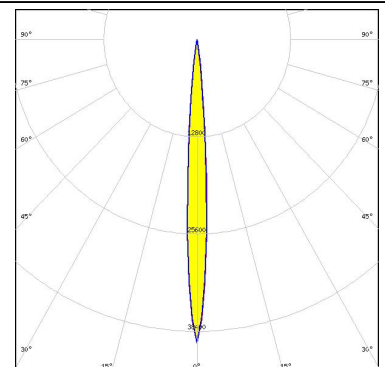
Efficiency 95 %

Peak intensity 39.9 cd/lm

LEDs/each optic 1

Light colour White

Required components:



LED NV4WB35AM

FWHM / FWTM 16.0° / 30.0°

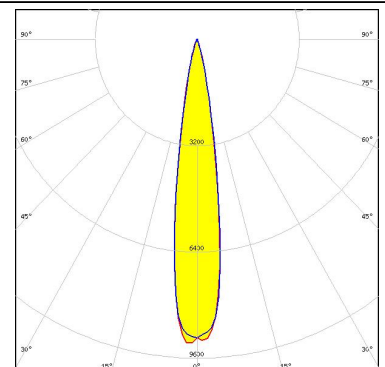
Efficiency 96 %

Peak intensity 9.1 cd/lm

LEDs/each optic 1

Light colour White

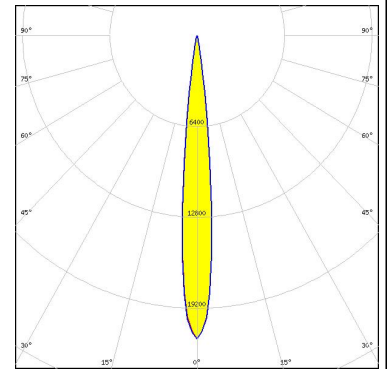
Required components:



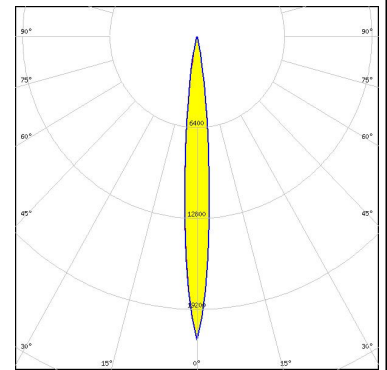
OPTICAL RESULTS (SIMULATED):



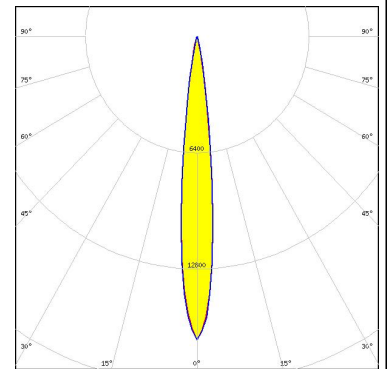
LED NVSW719AC
 FWHM / FWTM 10.0° / 20.0°
 Efficiency 96 %
 Peak intensity 21.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



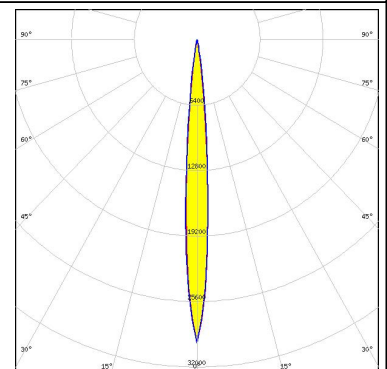
LED NVSxE21A
 FWHM / FWTM 10.0° / 21.0°
 Efficiency 94 %
 Peak intensity 21.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NVSxx19B/NVSxx19C
 FWHM / FWTM 12.0° / 22.0°
 Efficiency 94 %
 Peak intensity 16.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED OSCONIQ C 2424
 FWHM / FWTM 8.0° / 18.0°
 Efficiency 96 %
 Peak intensity 29.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

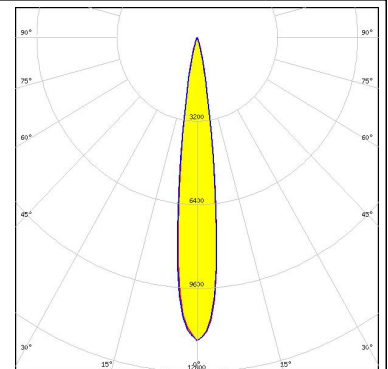


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

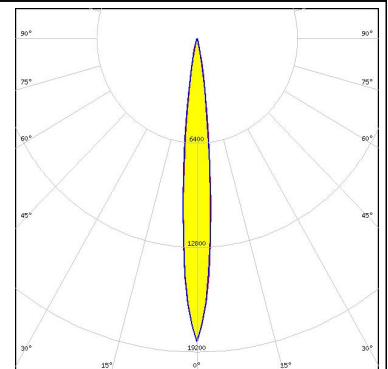
LED OSCONIQ P 3737 (3W version)
FWHM / FWTM 14.0° / 27.0°
Efficiency 94 %
Peak intensity 11.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

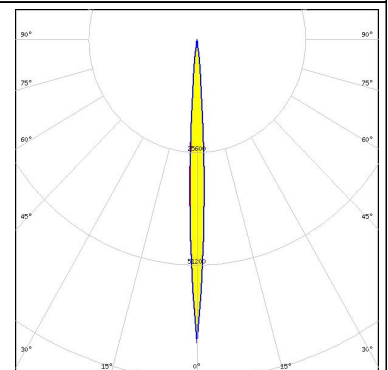
LED OSCONIQ P 3737 Flat
FWHM / FWTM 10.0° / 22.0°
Efficiency 96 %
Peak intensity 18.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

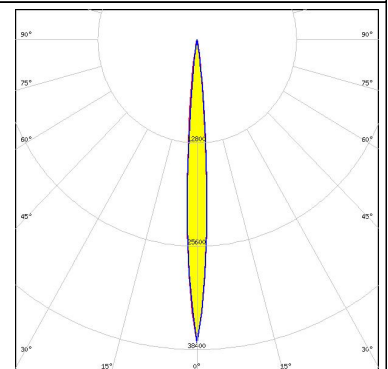
LED OSLON Black Flat (LUW HWQP)
FWHM / FWTM 6.0° / 12.0°
Efficiency 95 %
Peak intensity 68.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

LED OSLON Boost HX (KW CULPM1.TG)
FWHM / FWTM 8.0° / 16.0°
Efficiency 96 %
Peak intensity 37.6 cd/lm
LEDs/each optic 1
Light colour White
Required components:

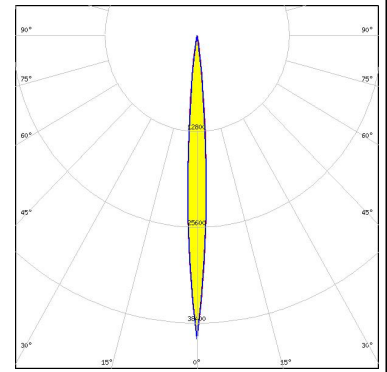


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

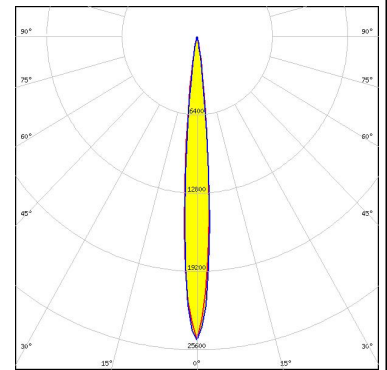
LED OSLON Signal
FWHM / FWTM 8.0° / 16.0°
Efficiency 95 %
Peak intensity 40.5 cd/lm
LEDs/each optic 1
Light colour Red
Required components:



OSRAM

Opto Semiconductors

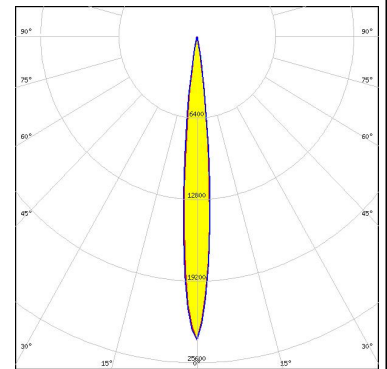
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM 9.5° / 19.0°
Efficiency 94 %
Peak intensity 24.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

LED SFH 4715AS
FWHM / FWTM 10.0° / 19.0°
Efficiency 94 %
Peak intensity 23.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM

Opto Semiconductors

LED SFH 4715S
FWHM / FWTM 9.5°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:

OPTICAL RESULTS (SIMULATED):

OSRAM Opto Semiconductors

LED	SFH 4770S
FWHM / FWTM	10.0° / 23.0°
Efficiency	94 %
LEDs/each optic	1
Light colour	White
Required components:	

SAMSUNG

LED	LM301B
FWHM / FWTM	9.0° / 19.0°
Efficiency	94 %
Peak intensity	24.5 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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