

LAURA-O-PIN

~40° x 12° oval beam optimized for CREE XP-E.
Assembly with white holder, installation tape
and location pins.

SPECIFICATION:

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

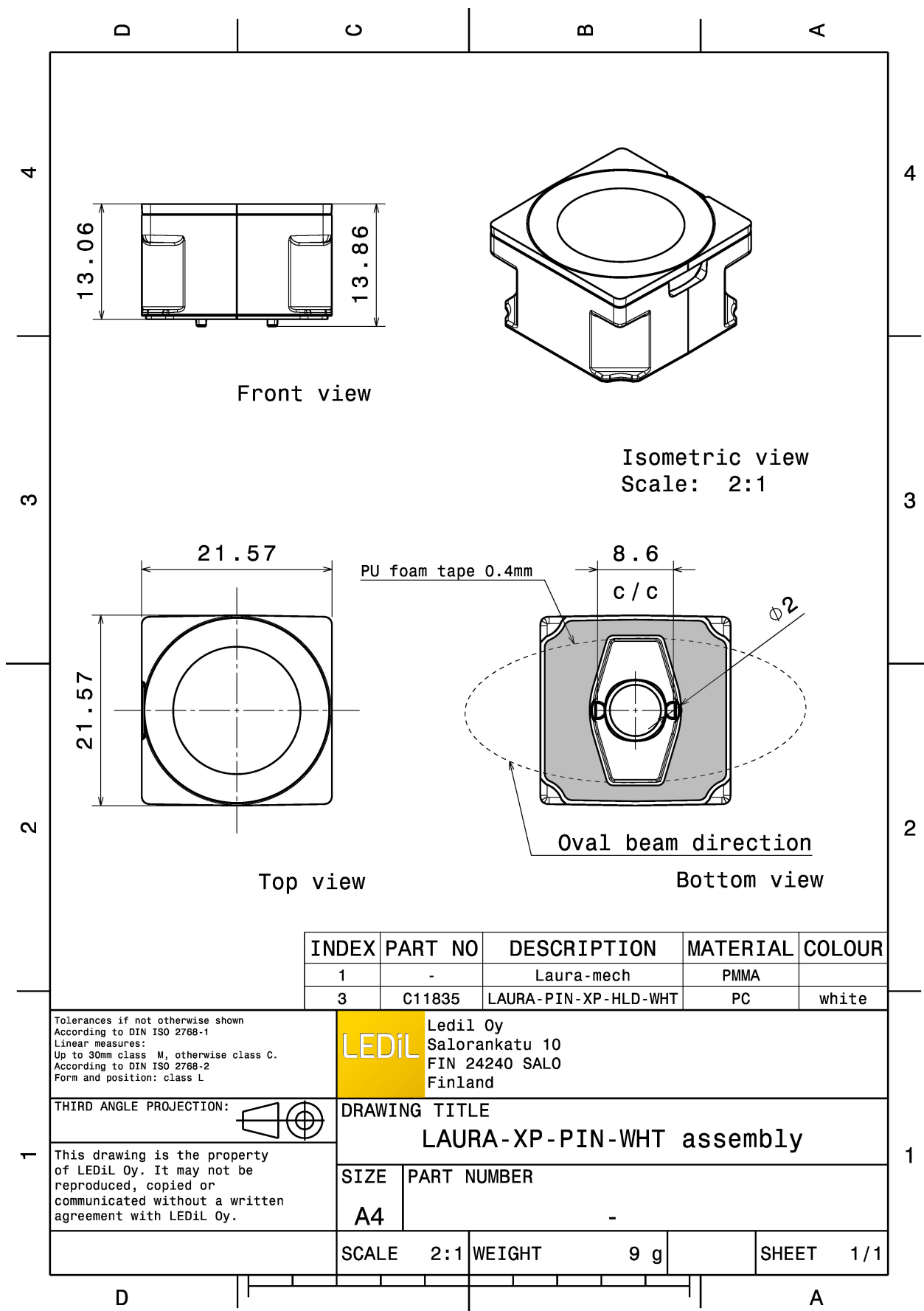


MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
LAURA-O	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)
CA12012_LAURA-O-PIN » Box size: 450 x 260 x 160 mm	1440	360	180	7.5



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

OPTICAL RESULTS (MEASURED):



LED XB-D
FWHM / FWTM 39.0 + 11.0°
Efficiency 94 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

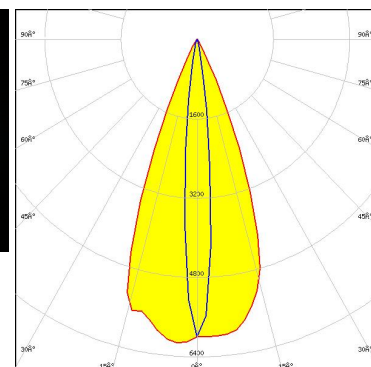


LED XP-E
FWHM / FWTM 40.0 + 13.0° / 54.0 + 22.0°
Efficiency 91 %
Peak intensity 4.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED XP-E2
FWHM / FWTM 41.0 + 10.0° / 56.0 + 22.0°
Efficiency 91 %
Peak intensity 6.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OPTICAL RESULTS (MEASURED):



LED XP-G
FWHM / FWTM 40.0 + 13.0°
Efficiency 91 %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

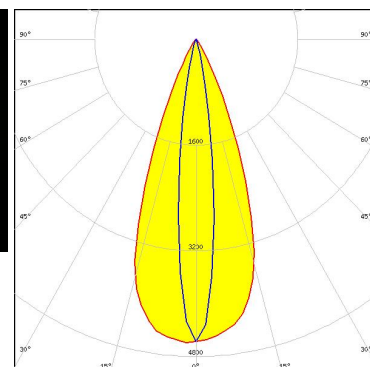


LED LUXEON Rebel
FWHM / FWTM 41.0 + 12.0° / 56.0 + 24.0°
Efficiency 90 %
Peak intensity 5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED LUXEON Rebel ES
FWHM / FWTM 41.0 + 14.0° / 60.0 + 28.0°
Efficiency 90 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OPTICAL RESULTS (MEASURED):



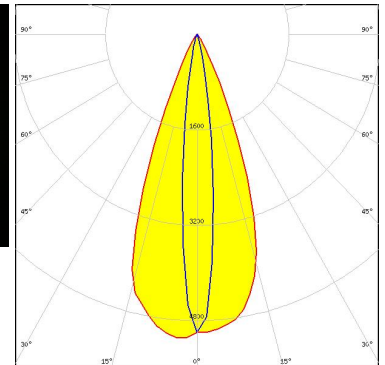
LED	LUXEON Z ES
FWHM / FWTM	40.0 + 11.0° / 56.0 + 22.0°
Efficiency	91 %
Peak intensity	6.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



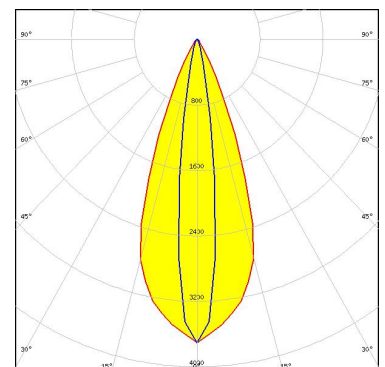
LED	NCSxx19B
FWHM / FWTM	41.0 + 13.0° / 58.0 + 26.0°
Efficiency	90 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



LED	OSLON Square EC
FWHM / FWTM	39.0 + 14.0° / 57.0 + 31.0°
Efficiency	87 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED OSLON Square PC
FWHM / FWTM 40.0 + 12.0° / 60.0 + 26.0°
Efficiency 88 %
Peak intensity 5.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON SSL 150
FWHM / FWTM 36.0 + 10.0° / 23.0 + 52.0°
Efficiency 86 %
Peak intensity 4.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OSRAM
Opto Semiconductors

LED OSLON SSL 80
FWHM / FWTM 40.0 + 12.0° / 26.0 + 54.0°
Efficiency 86 %
Peak intensity 4.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (MEASURED):



LED SFH 4715S
FWHM / FWTM 41.0 + 14.0°
Efficiency %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED SFH 4725S
FWHM / FWTM 40.0 + 14.0° / 58.0 + 24.0°
Efficiency %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files



LED Z5
FWHM / FWTM 40.0 + 12.0°
Efficiency %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (SIMULATED):



LED LUXEON H50-2
 FWHM / FWTM 13.0 + 61.0° / 30.0 + 84.0°
 Efficiency 81 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

[Light distribution files](#)



LED LUXEON IR Domed 150 (L110-0xxx150000000)
 FWHM / FWTM 67.0 + 10.0° / 88.0 + 10.0°
 Efficiency 0 %
 LEDs/each optic 1
 Light colour/type White
 Required components:

[Light distribution files](#)



LED LUXEON IR Domed 60 (L110-0xxx060000000)
 FWHM / FWTM 65.0 + 11.0° / 84.0 + 28.0°
 Efficiency 90 %
 LEDs/each optic 1
 Light colour/type White
 Required components:

[Light distribution files](#)

OPTICAL RESULTS (SIMULATED):

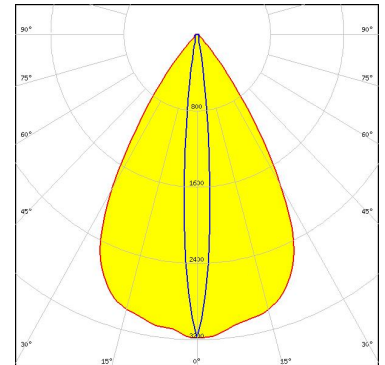


LED	LUXEON IR Domed 90 (L110-0xxx090000000)
FWHM / FWTM	63.0 + 11.0° / 83.0 + 24.0°
Efficiency	90 %
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files



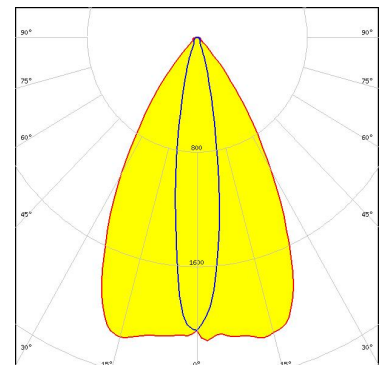
LED	NCSxE17A
FWHM / FWTM	62.0 + 10.0° / 84.0 + 20.0°
Efficiency	91 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



LED	NV4WB35AM
FWHM / FWTM	60.0 + 18.0° / 86.0 + 38.0°
Efficiency	90 %
Peak intensity	2.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

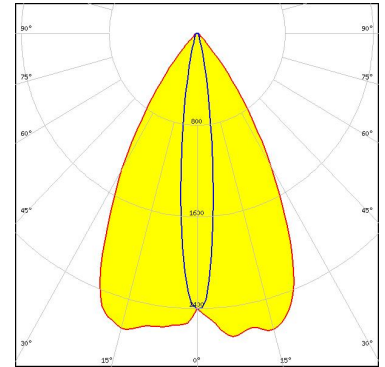


Light distribution files

OPTICAL RESULTS (SIMULATED):



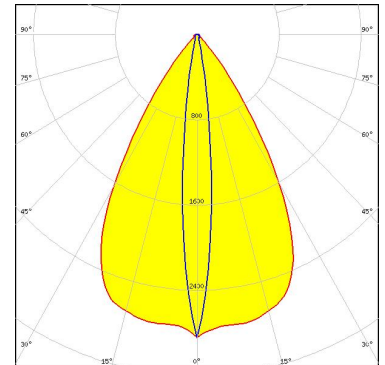
LED NVSW219F
 FWHM / FWTM 60.0 + 14.0° / 84.0 + 30.0°
 Efficiency 89 %
 Peak intensity 2.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



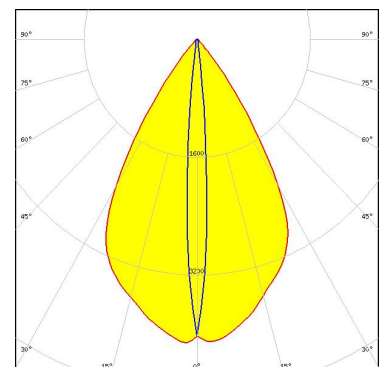
LED NVSxE21A
 FWHM / FWTM 62.0 + 12.0° / 84.0 + 24.0°
 Efficiency 91 %
 Peak intensity 2.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED OSLO Black Flat (LUW HWQP)
 FWHM / FWTM 62.0 + 8.0° / 82.0 + 16.0°
 Efficiency 92 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

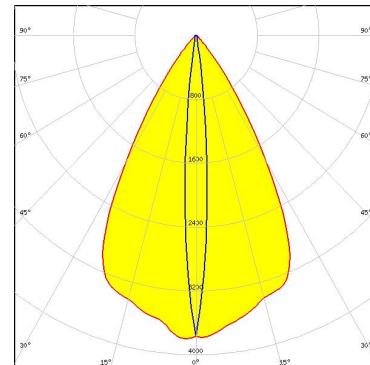


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

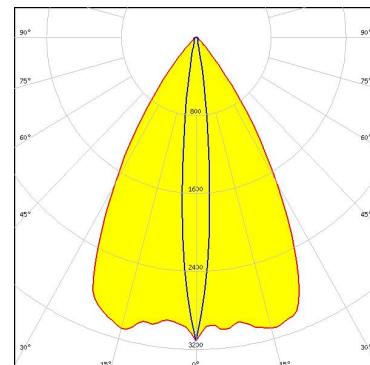
LED OSLON Signal
FWHM / FWTM $60.0 + 8.0^\circ / 80.0 + 18.0^\circ$
Efficiency 91 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour/type Red
Required components:



Light distribution files

OSRAM
Opto Semiconductors

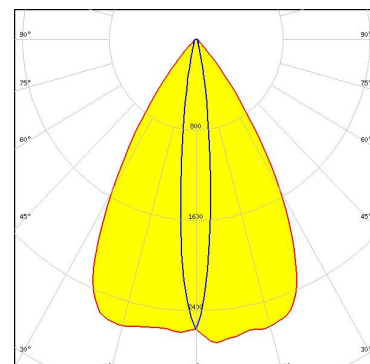
LED OSLON Square CSSRM2/CSSRM3
FWHM / FWTM $62.0 + 11.0^\circ / 84.0 + 24.0^\circ$
Efficiency 91 %
Peak intensity 3.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LM302D
FWHM / FWTM $63.0 + 12.0^\circ / 84.0 + 28.0^\circ$
Efficiency 88 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

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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