LAURA-O-PIN

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

SPECIFICATION:

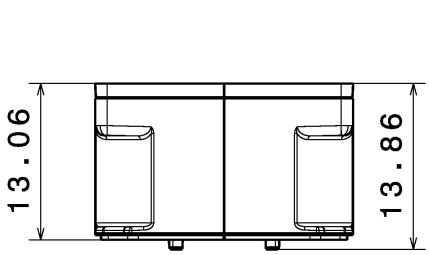
Dimensions	21.6 x 21.6 mm
Height	13.1 mm
Fastening	tape, pin
ROHS compliant	yes

MATERIALS:

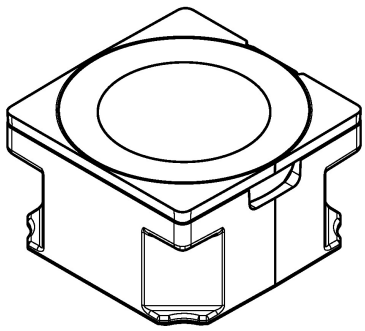
Component	Type	Material	Colour	Finish	Length
LAURA-O	Single lens	PMMA	clear		21.6
LAURA-PIN-XP-HLD-WHT	Holder	PC	white		21.6
ROSE-TAPE	Tape	Acrylic foam	black		21.6

ORDERING INFORMATION:

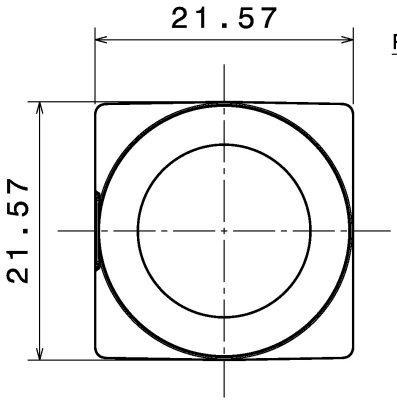
Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA12012_LAURA-O-PIN » Box size: 450 x 260 x 160 mm	1440	360	180	7.5



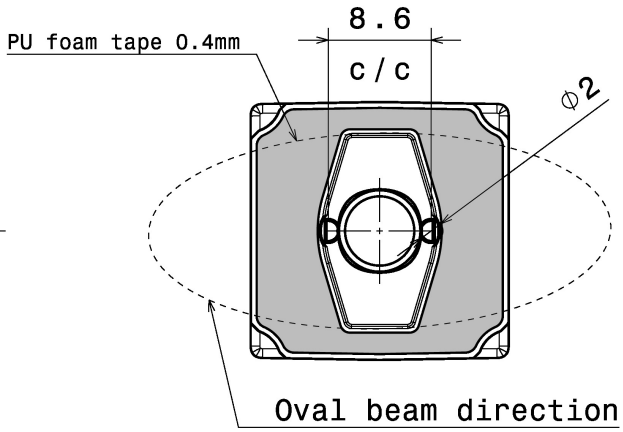
Front view



Isometric view
Scale: 2:1



Top view



Bottom view

INDEX	PART NO	DESCRIPTION	MATERIAL	COLOUR
1	-	Laura-mech	PMMA	
3	C11835	LAURA-PIN-XP-HLD-WHT	PC	white

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

Ledil Oy
Salorankatu 10
FIN 24240 SALO
Finland

THIRD ANGLE PROJECTION:

DRAWING TITLE
LAURA-XP-PIN-WHT assembly

SIZE A4 | PART NUMBER -

SCALE 2:1 | WEIGHT 9 g | SHEET 1/1

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

OPTICAL RESULTS (MEASURED):

CREE LEDs

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

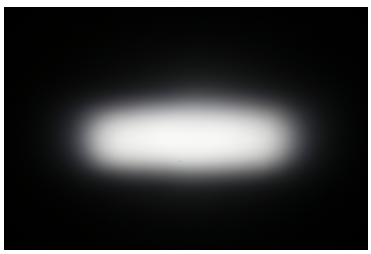
CREE LEDs

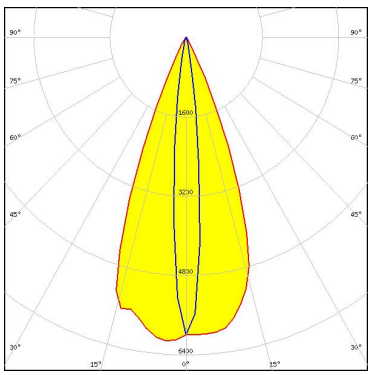
LED	XP-E
FWHM / FWTM	40.0 + 13.0° / 54.0 + 22.0°
Efficiency	91 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

Light distribution files

CREE LEDs

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):

CREE LEDs

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

Light distribution files

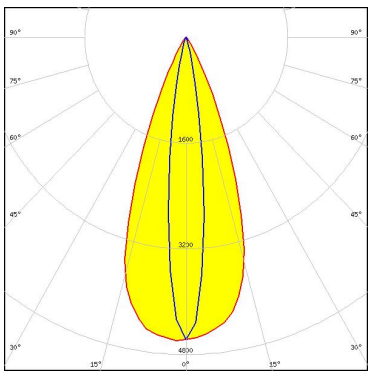
LUMILEDS

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

LUMILEDS

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):

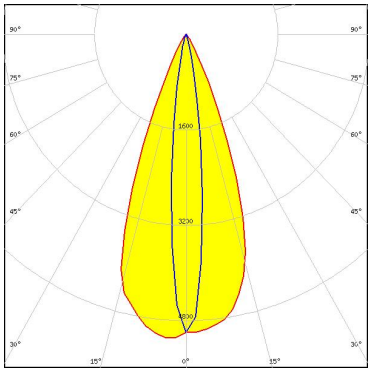
LUMILEDS

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

NICHIA

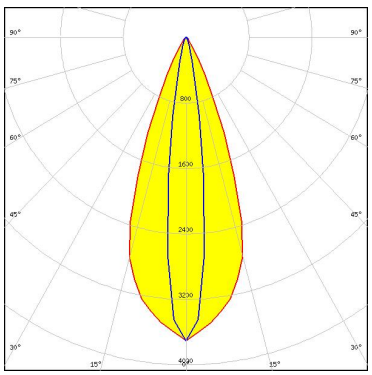
LED	NCSxx19B
FWHM / FWTM	41.0 + 13.0° / 58.0 + 26.0°
Efficiency	90 %
Peak intensity	5.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

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:	

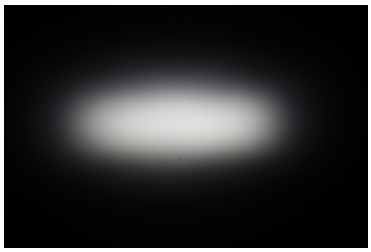


Light distribution files

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):

OSRAM
Opto Semiconductors

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

Light distribution files

OSRAM
Opto Semiconductors

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

SEOUL SEMICONDUCTOR

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):

LUMILEDS

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

LUMILEDS

LED	LUXEON IR Domed 150 (L1I0-0xxx150000000)
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

LUMILEDS

LED	LUXEON IR Domed 60 (L1I0-0xxx060000000)
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):

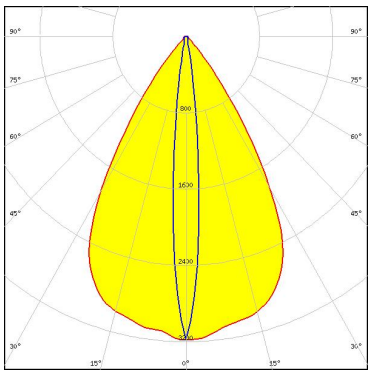
LUMILEDS

LED	LUXEON IR Domed 90 (L1I0-0xxx090000000)
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

NICHIA

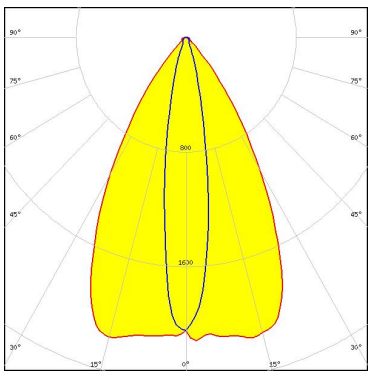
LED	NCSxE17A
FWHM / FWTM	62.0 + 10.0° / 84.0 + 20.0°
Efficiency	91 %
Peak intensity	3.2 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

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:	

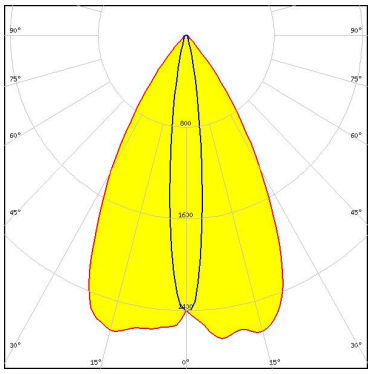


Light distribution files

OPTICAL RESULTS (SIMULATED):

NICHIA

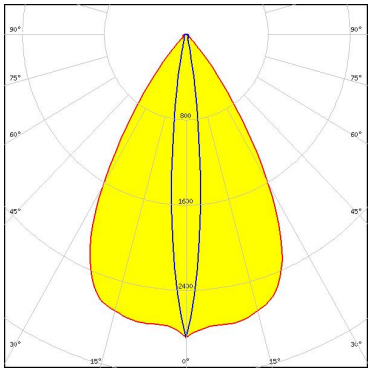
LED	NVSW219F
FWHM / FWTM	60.0 + 14.0° / 84.0 + 30.0°
Efficiency	89 %
Peak intensity	2.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

NICHIA

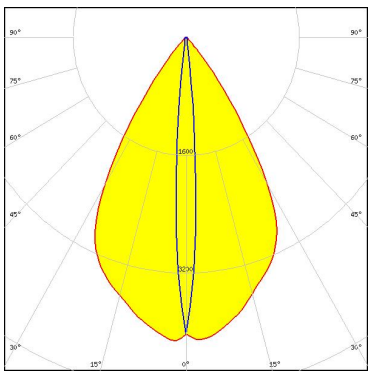
LED	NVSxE21A
FWHM / FWTM	62.0 + 12.0° / 84.0 + 24.0°
Efficiency	91 %
Peak intensity	2.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

LED	OSLON 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:	

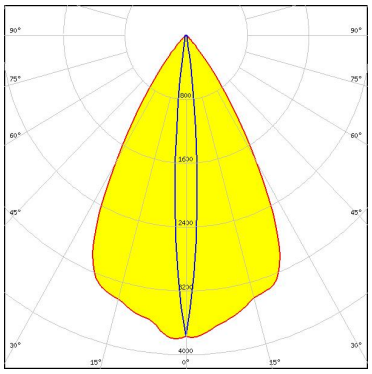


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

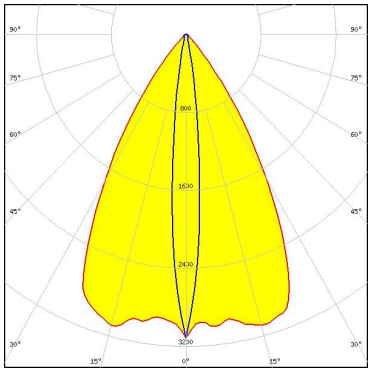
LED	OSLON Signal
FWHM / FWTM	60.0 + 8.0° / 80.0 + 18.0°
Efficiency	91 %
Peak intensity	3.8 cd/lm
LEDs/each optic	1
Light colour/type	Red
Required components:	



Light distribution files

OSRAM
Opto Semiconductors

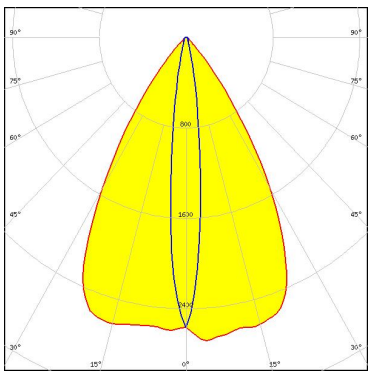
LED	OSLON Square CSSRM2/CSSRM3
FWHM / FWTM	62.0 + 11.0° / 84.0 + 24.0°
Efficiency	91 %
Peak intensity	3.1 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files

SAMSUNG

LED	LM302D
FWHM / FWTM	63.0 + 12.0° / 84.0 + 28.0°
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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