

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 ⓘ

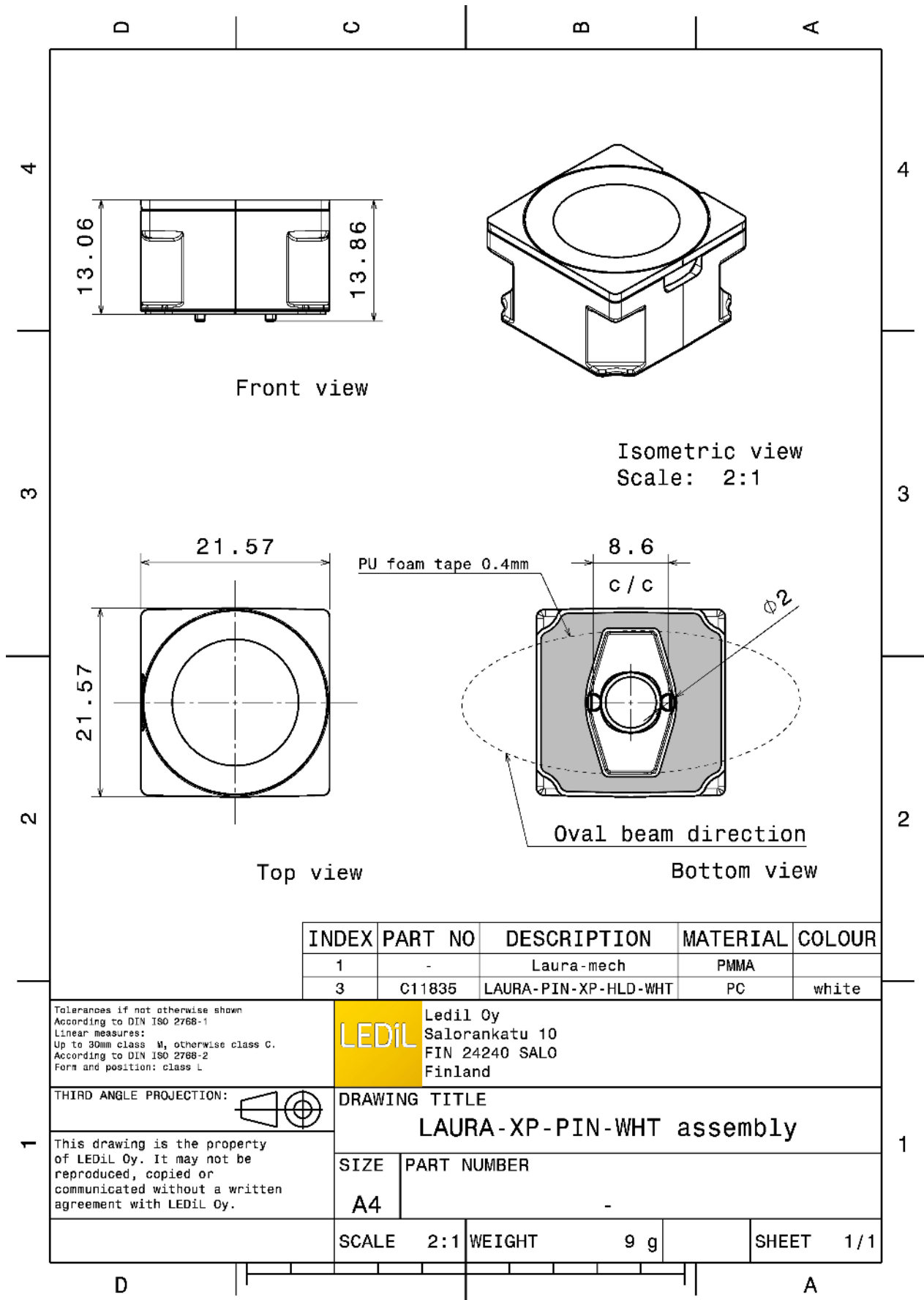


MATERIALS:

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

ORDERING INFORMATION:

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



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

OPTICAL RESULTS (MEASURED):

CREE ⇄ LED

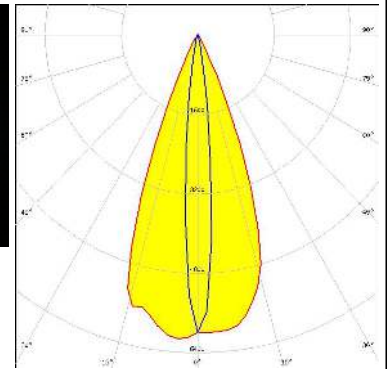
LED XB-D
 FWHM / FWTM 39.0 + 11.0°
 Efficiency 94 %
 Peak intensity 4.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

CREE ⇄ LED

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 White
 Required components:

CREE ⇄ LED

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 White
 Required components:



CREE ⇄ LED

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

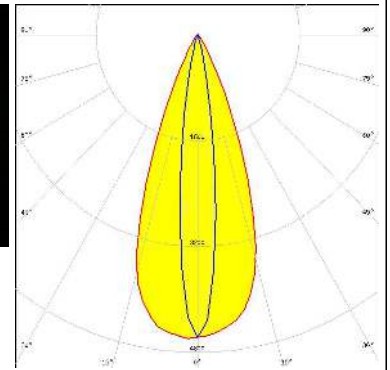
OPTICAL RESULTS (MEASURED):

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 White
 Required components:

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 White
 Required components:



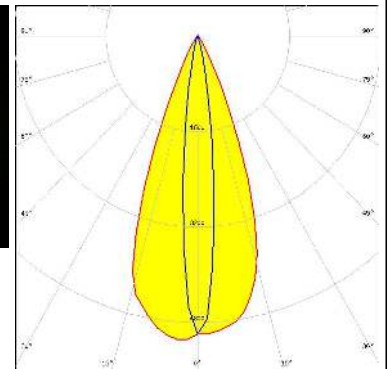
LUMILEDS

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 White
 Required components:

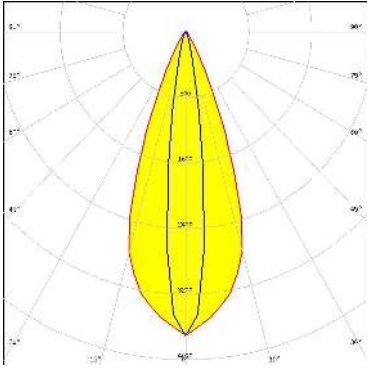



NICHIA




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 White
 Required components:



OPTICAL RESULTS (MEASURED):

<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square EC</p> <p>FWHM / FWTM 39.0 + 14.0° / 57.0 + 31.0°</p> <p>Efficiency 87 %</p> <p>Peak intensity 3.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON Square PC</p> <p>FWHM / FWTM 40.0 + 12.0° / 60.0 + 26.0°</p> <p>Efficiency 88 %</p> <p>Peak intensity 5.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON SSL 150</p> <p>FWHM / FWTM 36.0 + 10.0° / 23.0 + 52.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 4.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLON SSL 80</p> <p>FWHM / FWTM 40.0 + 12.0° / 26.0 + 54.0°</p> <p>Efficiency 86 %</p> <p>Peak intensity 4.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (MEASURED):

 OSRAM Opto Semiconductors	
LED	SFH 4715S
FWHM / FWTM	41.0 + 14.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	
 OSRAM Opto Semiconductors	
LED	SFH 4725S
FWHM / FWTM	40.0 + 14.0° / 58.0 + 24.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	
 SEOUL SEMICONDUCTOR	
LED	Z5
FWHM / FWTM	40.0 + 12.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	

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 White
Required components:

LUMILEDS

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

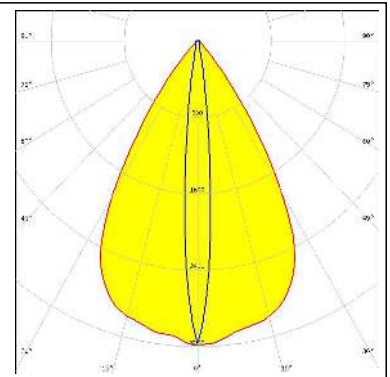
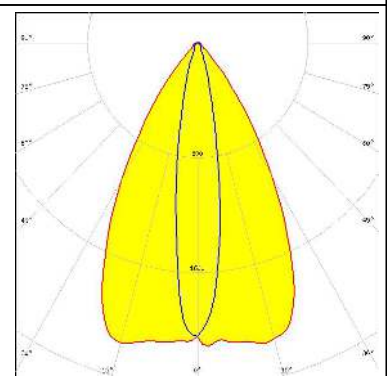
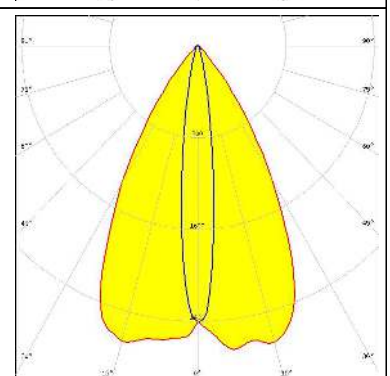
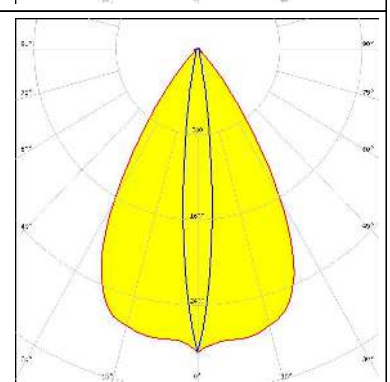
LUMILEDS

LED LUXEON IR Domed 60
FWHM / FWTM 65.0 + 11.0° / 84.0 + 28.0°
Efficiency 90 %
LEDs/each optic 1
Light colour White
Required components:

LUMILEDS

LED LUXEON IR Domed 90
FWHM / FWTM 63.0 + 11.0° / 83.0 + 24.0°
Efficiency 90 %
LEDs/each optic 1
Light colour White
Required components:

OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED: NCSxE17A</p> <p>FWHM / FWTM: 62.0 + 10.0° / 84.0 + 20.0°</p> <p>Efficiency: 91 %</p> <p>Peak intensity: 3.2 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED: NV4WB35AM</p> <p>FWHM / FWTM: 60.0 + 18.0° / 86.0 + 38.0°</p> <p>Efficiency: 90 %</p> <p>Peak intensity: 2.2 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED: NVSW219F</p> <p>FWHM / FWTM: 60.0 + 14.0° / 84.0 + 30.0°</p> <p>Efficiency: 89 %</p> <p>Peak intensity: 2.7 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED: NVSxE21A</p> <p>FWHM / FWTM: 62.0 + 12.0° / 84.0 + 24.0°</p> <p>Efficiency: 91 %</p> <p>Peak intensity: 2.8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

<p>OSRAM Opto Semiconductors</p> <p>LED: OSLON Signal</p> <p>FWHM / FWTM: 60.0 + 8.0° / 80.0 + 18.0°</p> <p>Efficiency: 91 %</p> <p>Peak intensity: 3.8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: Red</p> <p>Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM: 62.0 + 11.0° / 84.0 + 24.0°</p> <p>Efficiency: 91 %</p> <p>Peak intensity: 3.1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p>SAMSUNG</p> <p>LED: LM302D</p> <p>FWHM / FWTM: 63.0 + 12.0° / 84.0 + 28.0°</p> <p>Efficiency: 88 %</p> <p>Peak intensity: 2.7 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

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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