

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 ⓘ

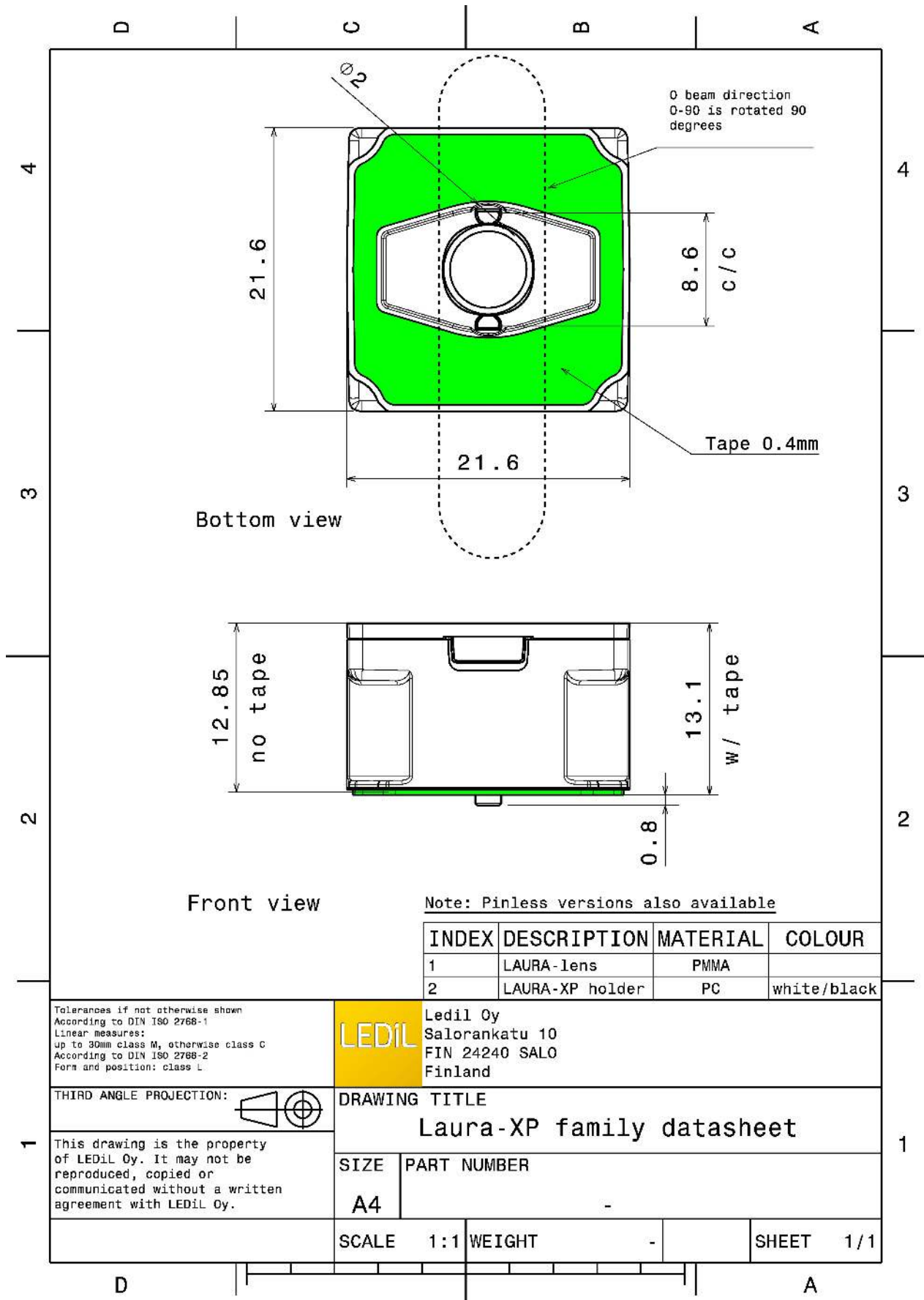


MATERIALS:

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	Type	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):

CREE LED

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:

CREE LED

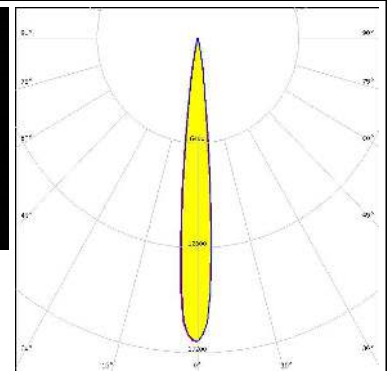
LED XP-G
FWHM / FWTM 11.0°
Efficiency 93 %
LEDs/each optic 1
Light colour White
Required components:

LUMILEDS


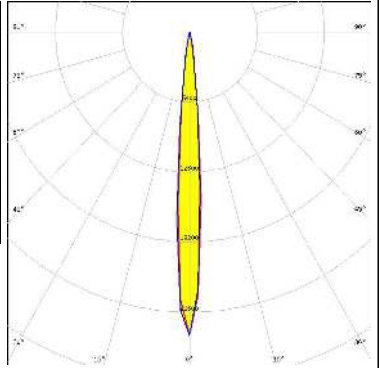

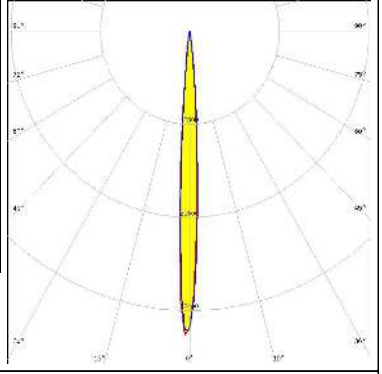
LED LUXEON Rebel
FWHM / FWTM 7.0° / 16.0°
Efficiency 93 %
Peak intensity 34 cd/lm
LEDs/each optic 1
Light colour White
Required components:

LUMILEDS

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:




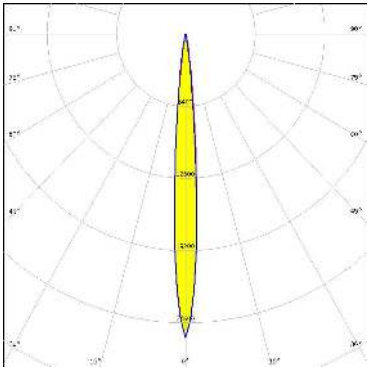

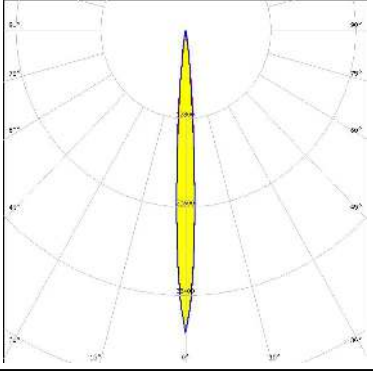

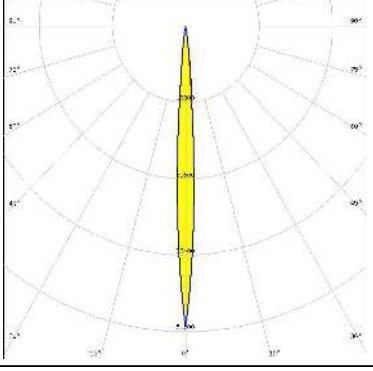

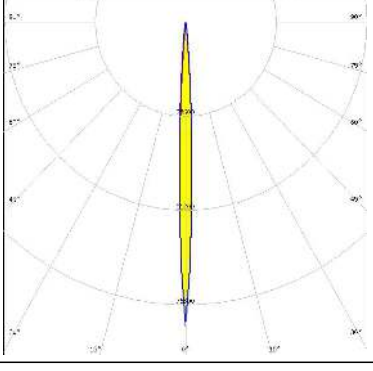
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>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:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSLOM Square EC FWHM / FWTM 9.0° / 18.0° Efficiency 93 % Peak intensity 20 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED OSLOM SSL 150 FWHM / FWTM 7.0° / 14.0° Efficiency 92 % Peak intensity 42 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM <small>Opto Semiconductors</small></p> <p>LED SFH 4725S FWHM / FWTM 10.0° / 21.0° Efficiency % LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

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

OPTICAL RESULTS (SIMULATED):

	<p>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:</p>	
	<p>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:</p>	
	<p>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:</p>	
	<p>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:</p>	

OPTICAL RESULTS (SIMULATED):

LUMILEDS

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:

LUMILEDS

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

LUMILEDS

LED LUXEON IR Domed 60 (L110-0xxx060000000)
FWHM / FWTM 9.2° / 20.0°
Efficiency 94 %
LEDs/each optic 1
Light colour White
Required components:

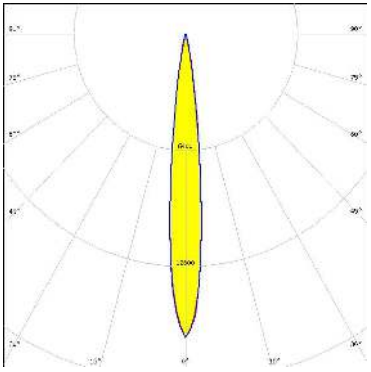
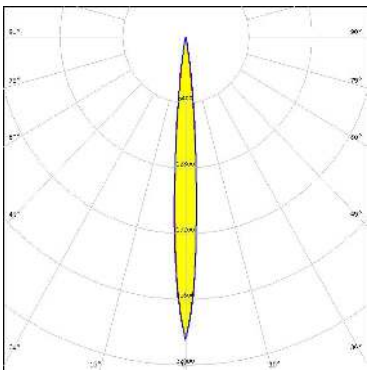
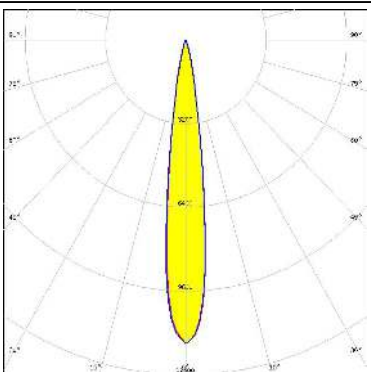
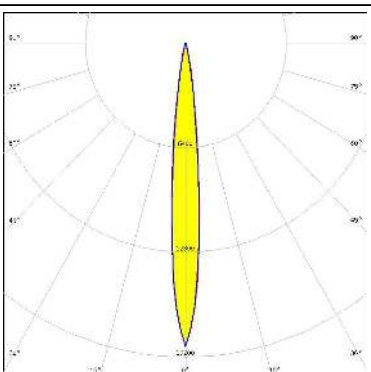
LUMILEDS

LED LUXEON IR Domed 90 (L110-0xxx090000000)
FWHM / FWTM 9.0° / 18.0°
Efficiency 94 %
LEDs/each optic 1
Light colour White
Required components:

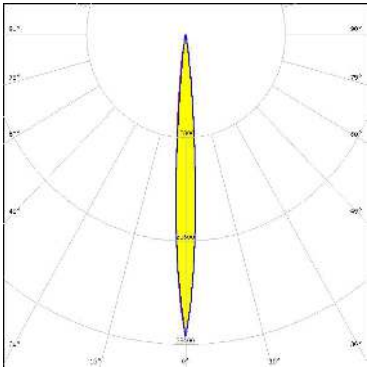
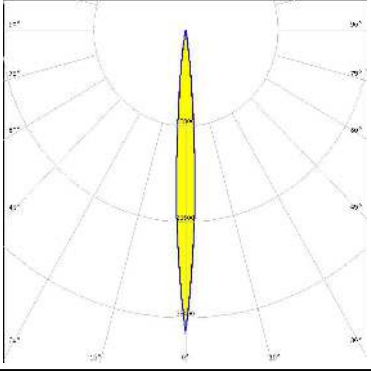
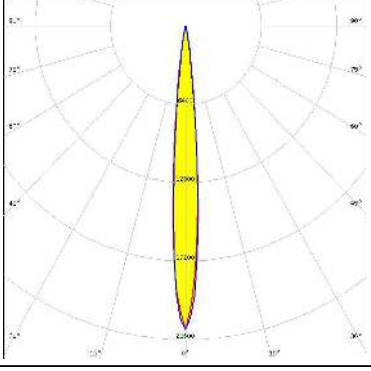
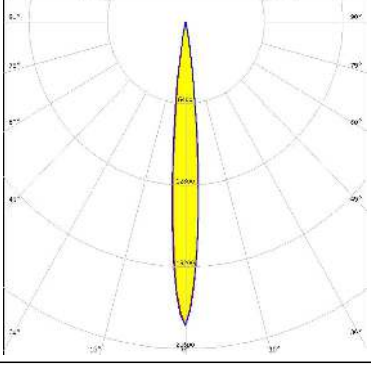
OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED LUXEON Z ES</p> <p>FWHM / FWTM 8.0° / 15.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 39.9 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 16.0° / 30.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 9.1 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p>NICHIA</p> <p>LED NVSW719AC</p> <p>FWHM / FWTM 10.0° / 20.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 21.4 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 10.0° / 21.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 21.4 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED NVSxx19B/NVSxx19C</p> <p>FWHM / FWTM 12.0° / 22.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 16.7 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 OSCONIQ C 2424</p> <p>FWHM / FWTM 8.0° / 18.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 29.6 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 OSCONIQ P 3737 (3W version)</p> <p>FWHM / FWTM 14.0° / 27.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 11.6 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 OSCONIQ P 3737 Flat</p> <p>FWHM / FWTM 10.0° / 22.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 18.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON Boost HX (KW CULPM1.TG)</p> <p>FWHM / FWTM 8.0° / 16.0°</p> <p>Efficiency 96 %</p> <p>Peak intensity 37.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON Signal</p> <p>FWHM / FWTM 8.0° / 16.0°</p> <p>Efficiency 95 %</p> <p>Peak intensity 40.5 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour Red</p> <p>Required components:</p>	
OSRAM <small>Opto Semiconductors</small>	<p>LED OSLON Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM 9.5° / 19.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 24.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
OSRAM <small>Opto Semiconductors</small>	<p>LED SFH 4715AS</p> <p>FWHM / FWTM 10.0° / 19.0°</p> <p>Efficiency 94 %</p> <p>Peak intensity 23.8 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

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

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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