

## LAURA-M-PIN

~30° medium beam optimized for CREE XP-E.  
Assembly with white holder, installation tape  
and location pins.

### TECHNICAL SPECIFICATIONS:

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

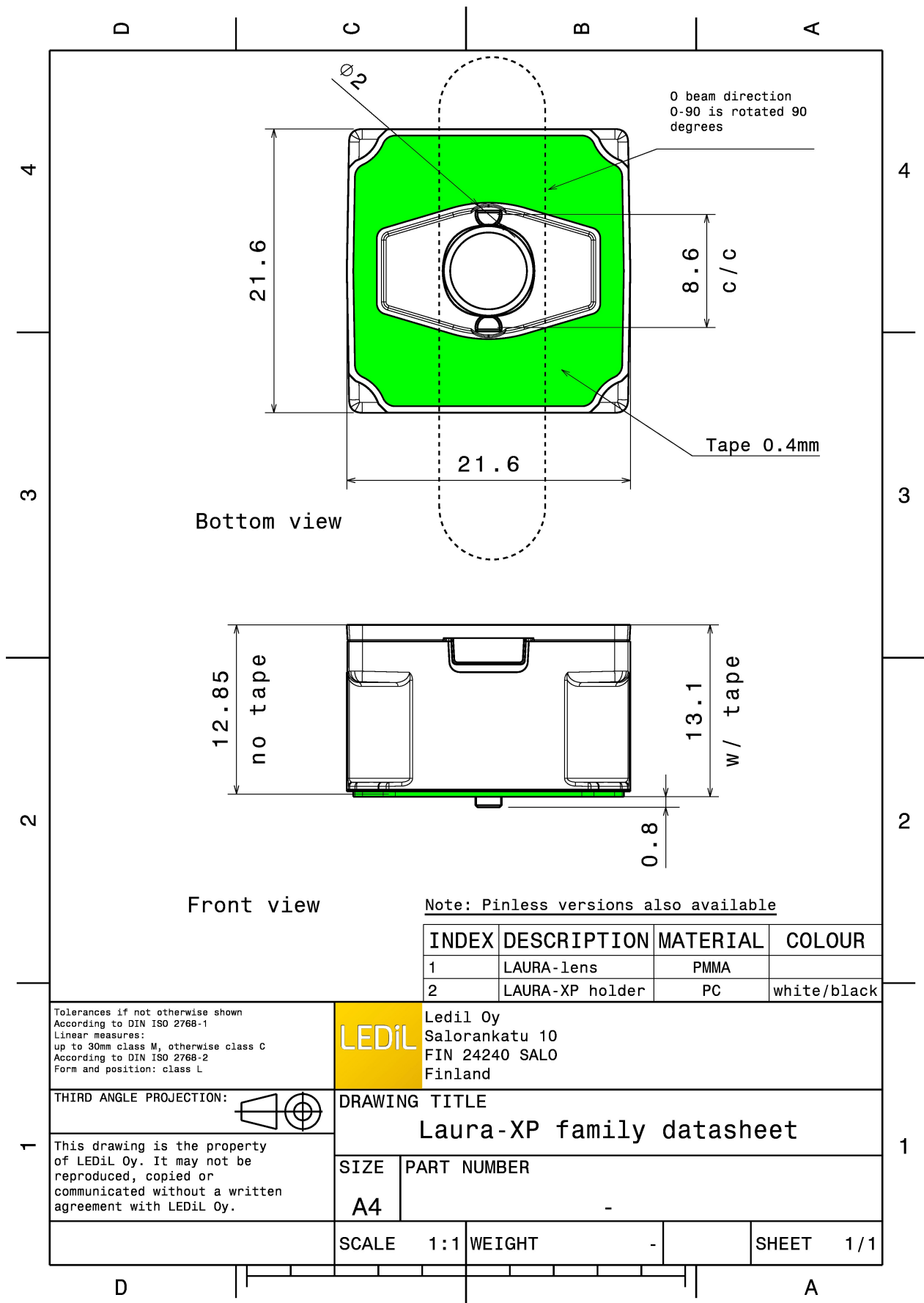


### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
LAURA-M	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)
CA11837_LAURA-M-PIN	Single lens	1440	360	180	8.0
» Box size: 460 x 260 x 200 mm					



See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

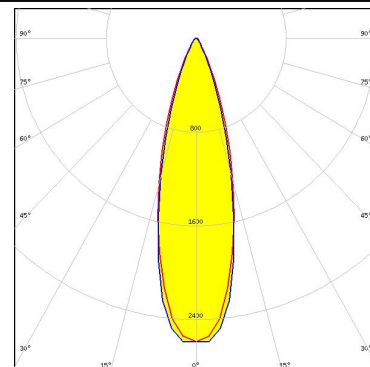
#### PHOTOMETRIC DATA (MEASURED):

##### CREE LED

LED XB-D  
 FWHM / FWTM 28.0°  
 Efficiency 92 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

##### CREE LED

LED XP-E  
 FWHM / FWTM 30.0° / 53.0°  
 Efficiency 92 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

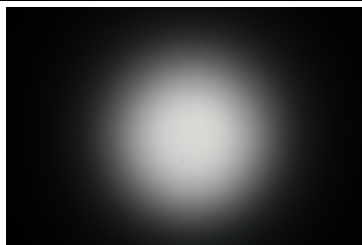


##### CREE LED

LED XP-E-HEW  
 FWHM / FWTM 27.0° / 52.0°  
 Efficiency 85 %  
 Peak intensity 2.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

##### CREE LED

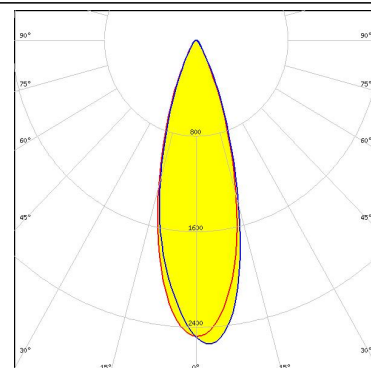
LED XP-E2  
 FWHM / FWTM 28.0° / 54.0°  
 Efficiency 88 %  
 Peak intensity 3 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (MEASURED):



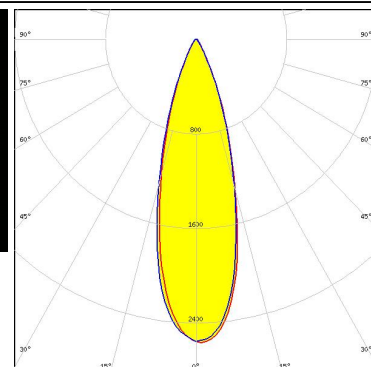
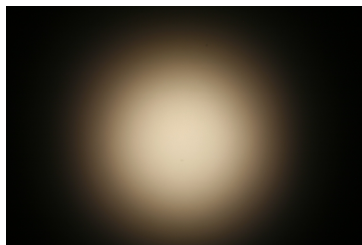
LED XP-G  
FWHM / FWTM 30.0°  
Efficiency 93 %  
Peak intensity 2.5 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON Rebel  
FWHM / FWTM 27.0° / 52.0°  
Efficiency 88 %  
Peak intensity 2.9 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



LED LUXEON T  
FWHM / FWTM 30.0° / 56.0°  
Efficiency 89 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



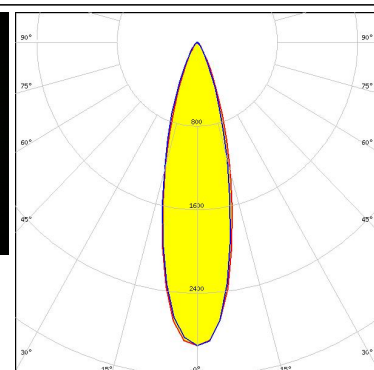
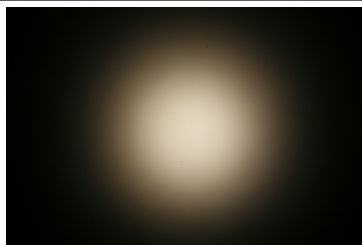
LED LUXEON Z ES  
FWHM / FWTM 26.0° / 50.0°  
Efficiency 92 %  
Peak intensity 3.6 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



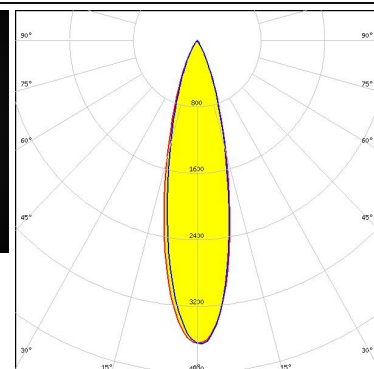
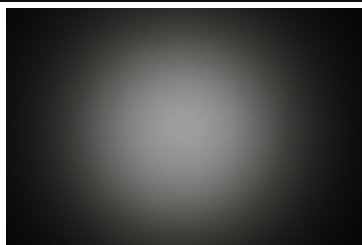
#### PHOTOMETRIC DATA (MEASURED):



LED NCSxx19B  
 FWHM / FWTM 28.0° / 54.0°  
 Efficiency 86 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NF2x757D  
 FWHM / FWTM 25.0° / 51.0°  
 Efficiency 88 %  
 Peak intensity 3.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



OSRAM Opto Semiconductors  
 LED OSLON Square EC  
 FWHM / FWTM 27.0° / 54.0°  
 Efficiency 86 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



OSRAM Opto Semiconductors  
 LED OSLON SSL 150  
 FWHM / FWTM 26.0° / 50.0°  
 Efficiency 87 %  
 Peak intensity 2.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

## PHOTOMETRIC DATA (MEASURED):

### **OSRAM** Opto Semiconductors

LED OSLON SSL 80  
FWHM / FWTM 30.0° / 56.0°  
Efficiency 88 %  
Peak intensity 2.4 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:


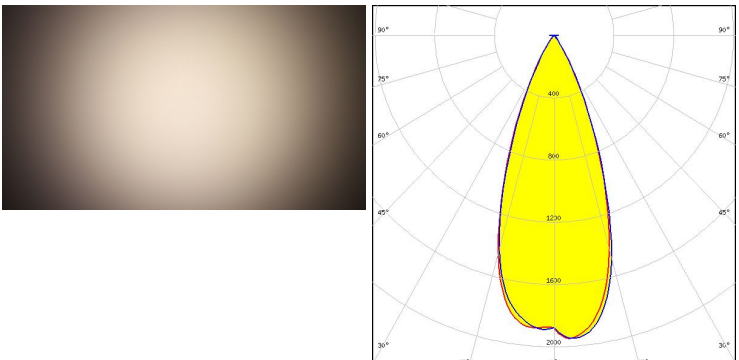
### **OSRAM** Opto Semiconductors

LED SFH 4725S  
FWHM / FWTM 22.0° / 48.0°  
Efficiency %  
LEDs/each optic 1  
Light colour White  
Required components:

### SEOUL SEMICONDUCTOR

LED Z5  
FWHM / FWTM 29.0°  
Efficiency %  
LEDs/each optic 1  
Light colour White  
Required components:

### PHOTOMETRIC DATA (SIMULATED):

<p><b>CREE</b>  LED</p> <p>LED XP-G3</p> <p>FWHM / FWTM 39.0° / 62.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 2 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON H50-2</p> <p>FWHM / FWTM 32.5° / 52.0°</p> <p>Efficiency 85 %</p> <p>Peak intensity 2.6 cd/lm</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON IR Domed 150</p> <p>FWHM / FWTM 20.0° / 41.0°</p> <p>Efficiency 0 %</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	
<p><b>LUMILEDS</b></p> <p>LED LUXEON IR Domed 60</p> <p>FWHM / FWTM 25.0° / 44.0°</p> <p>Efficiency 94 %</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>	

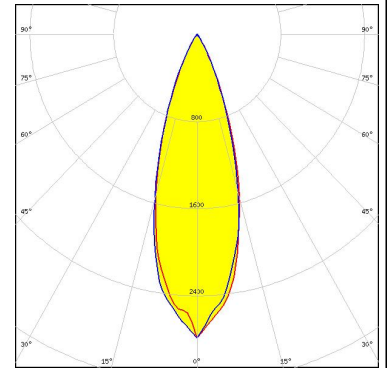
#### PHOTOMETRIC DATA (SIMULATED):



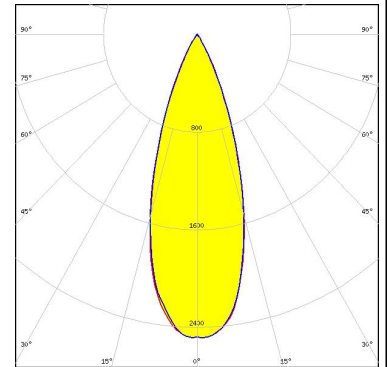
LED LUXEON IR Domed 90  
 FWHM / FWTM 25.0° / 48.0°  
 Efficiency 94 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



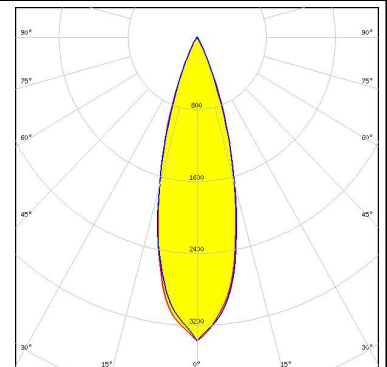
LED NV4WB35AM  
 FWHM / FWTM 32.0° / 56.0°  
 Efficiency 96 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED NVSxx19B/NVSxx19C  
 FWHM / FWTM 36.0° / 58.0°  
 Efficiency 94 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



LED OSLOM Signal  
 FWHM / FWTM 30.0° / 51.0°  
 Efficiency 96 %  
 Peak intensity 3.4 cd/lm  
 LEDs/each optic 1  
 Light colour Red  
 Required components:

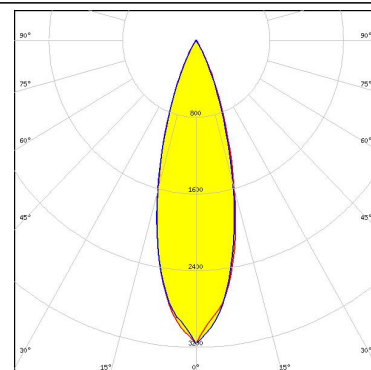




### PHOTOMETRIC DATA (SIMULATED):

#### OSRAM Opto Semiconductors

LED OSLON Square CSSRM2/CSSRM3  
FWHM / FWTM 30.0° / 54.0°  
Efficiency 94 %  
Peak intensity 3.2 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:



#### OSRAM Opto Semiconductors

LED OSLON Square PC  
FWHM / FWTM 29.0°  
Efficiency %  
LEDs/each optic 1  
Light colour White  
Required components:

#### OSRAM Opto Semiconductors

LED SFH 4715S  
FWHM / FWTM 30.0°  
Efficiency 85 %  
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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