

## LAURA-M-PIN

~30° medium 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 ⓘ

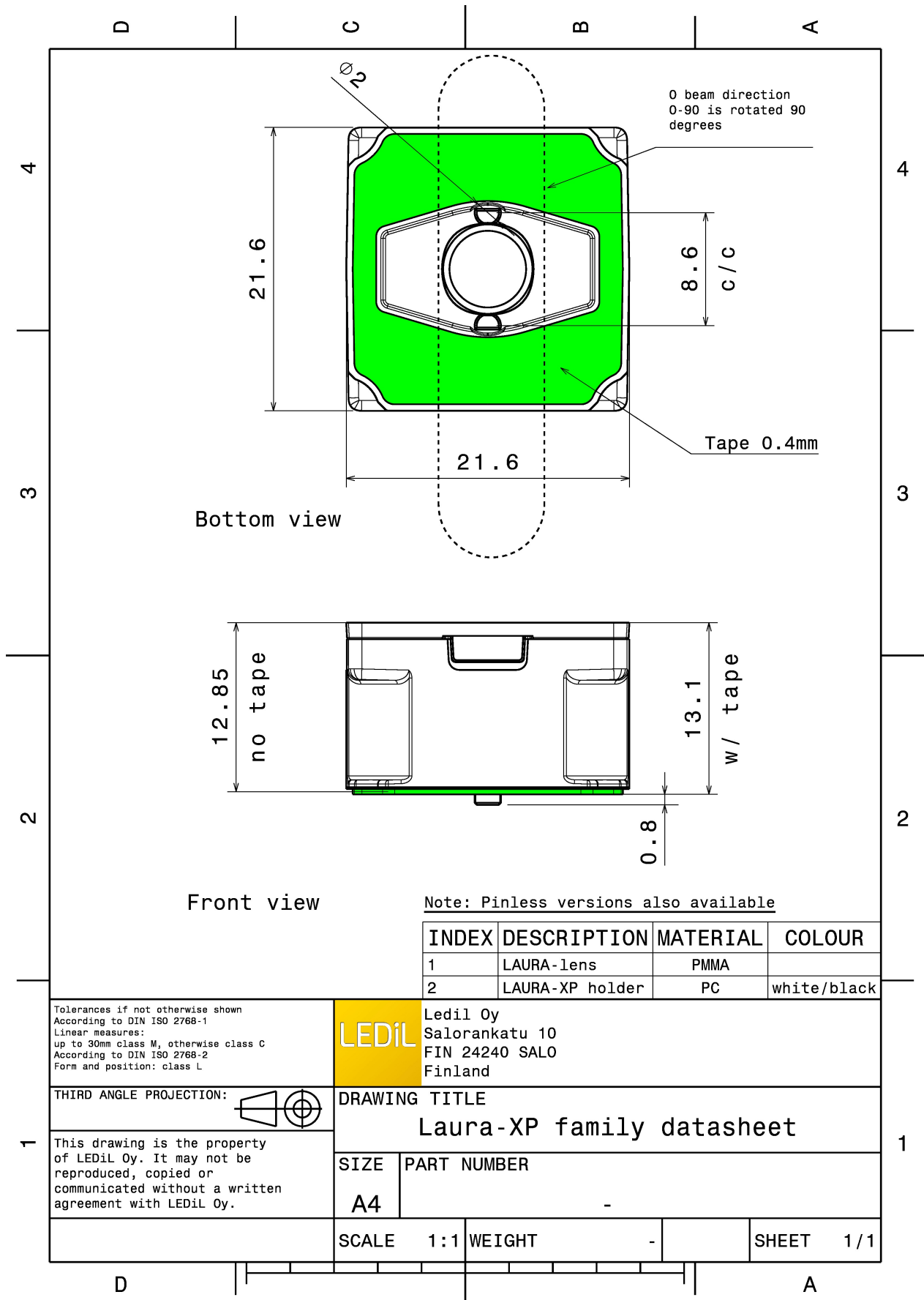


### MATERIALS:

Component	Type	Material	Colour	Finish
LAURA-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)

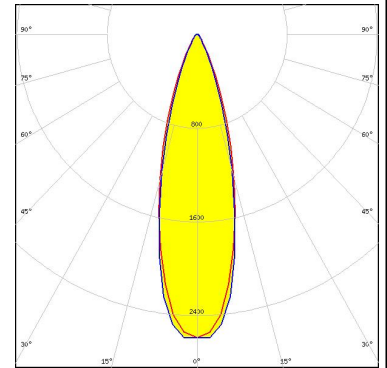
#### OPTICAL RESULTS (MEASURED):



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



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



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



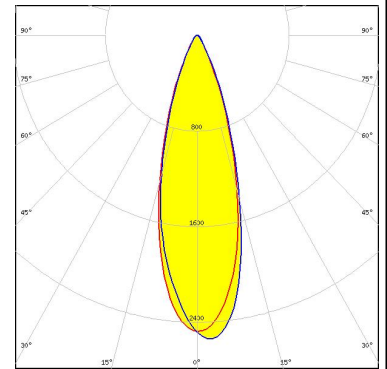
LED XP-E2  
 FWHM / FWTM 28.0° / 54.0°  
 Efficiency 88 %  
 Peak intensity 3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### OPTICAL RESULTS (MEASURED):



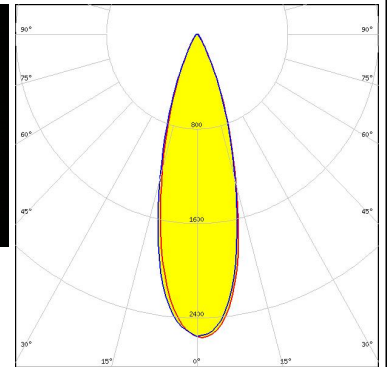
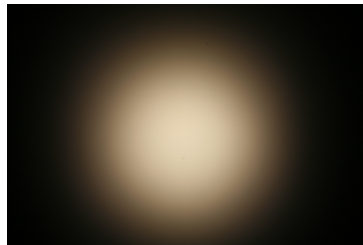
LED XP-G  
 FWHM / FWTM 30.0°  
 Efficiency 93 %  
 Peak intensity 2.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



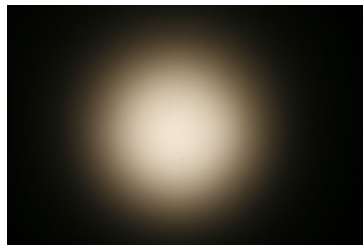
LED LUXEON Rebel  
 FWHM / FWTM 27.0° / 52.0°  
 Efficiency 88 %  
 Peak intensity 2.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:




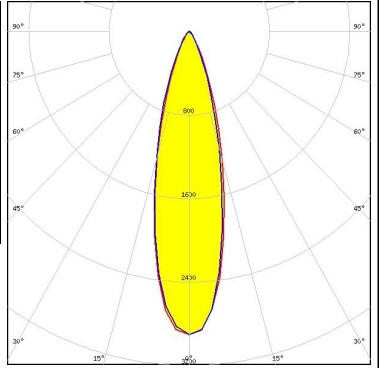
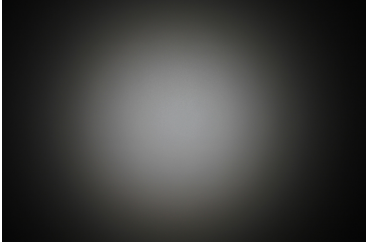
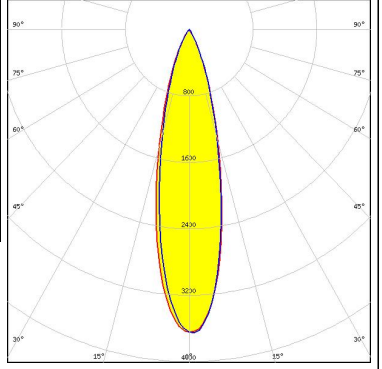
LED LUXEON T  
 FWHM / FWTM 30.0° / 56.0°  
 Efficiency 89 %  
 Peak intensity 2.4 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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:



#### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>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:</p>		
<p><b>NICHIA</b></p> <p>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:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>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:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>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:</p>		

### OPTICAL RESULTS (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:



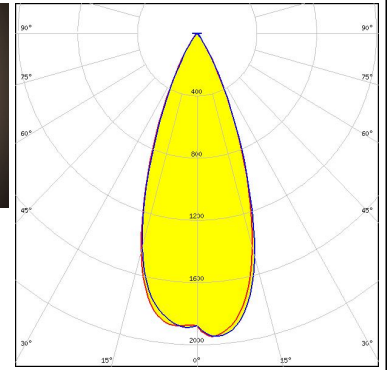
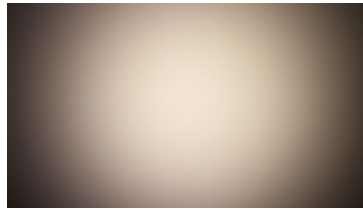
SEOUL SEMICONDUCTOR

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

#### OPTICAL RESULTS (SIMULATED):



**LED** XP-G3  
**FWHM / FWTM** 39.0° / 62.0°  
**Efficiency** 93 %  
**Peak intensity** 2 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** LUXEON H50-2  
**FWHM / FWTM** 32.5° / 52.0°  
**Efficiency** 85 %  
**Peak intensity** 2.6 cd/lm  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** LUXEON IR Domed 150 (L110-0xxx150000000)  
**FWHM / FWTM** 20.0° / 41.0°  
**Efficiency** 0 %  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**



**LED** LUXEON IR Domed 60 (L110-0xxx060000000)  
**FWHM / FWTM** 25.0° / 44.0°  
**Efficiency** 94 %  
**LEDs/each optic** 1  
**Light colour** White  
**Required components:**

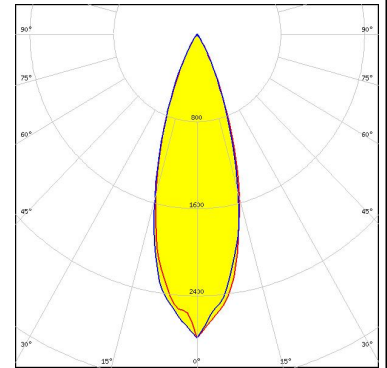
#### OPTICAL RESULTS (SIMULATED):



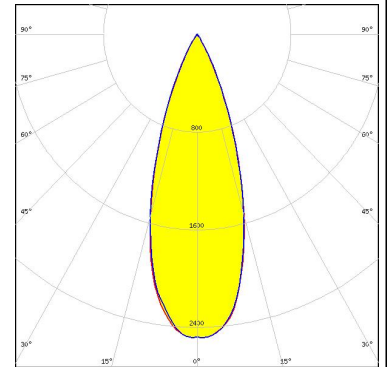
LED LUXEON IR Domed 90 (L110-0xxx090000000)  
 FWHM / FWTM 25.0° / 48.0°  
 Efficiency 94 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:



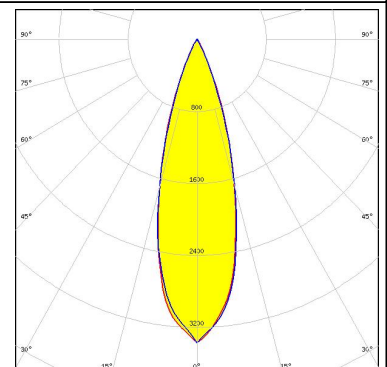
LED NV4WB35AM  
 FWHM / FWTM 32.0° / 56.0°  
 Efficiency 96 %  
 Peak intensity 2.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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





#### OPTICAL RESULTS (SIMULATED):

**OSRAM**  
Opto Semiconductors

LED: OSLOM 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:



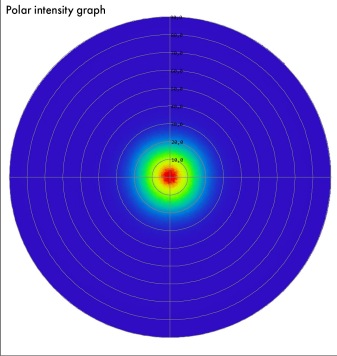
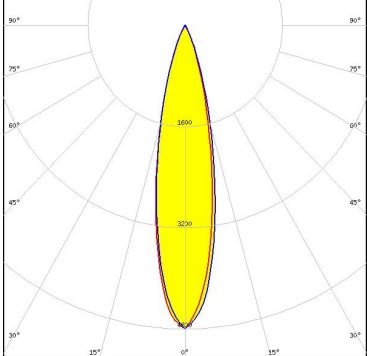
**OSRAM**  
Opto Semiconductors

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

**OSRAM**  
Opto Semiconductors

LED: SFH 4715AS  
 FWHM / FWTM: 23.0° / 44.0°  
 Efficiency: 96 %  
 LEDs/each optic: 1  
 Light colour: IR  
 Required components:

Polar intensity graph

**OSRAM**  
Opto Semiconductors

LED: SFH 4715S  
 FWHM / FWTM: 30.0°  
 Efficiency: 85 %  
 LEDs/each optic: 1  
 Light colour: White  
 Required components:

### OPTICAL RESULTS (SIMULATED):

