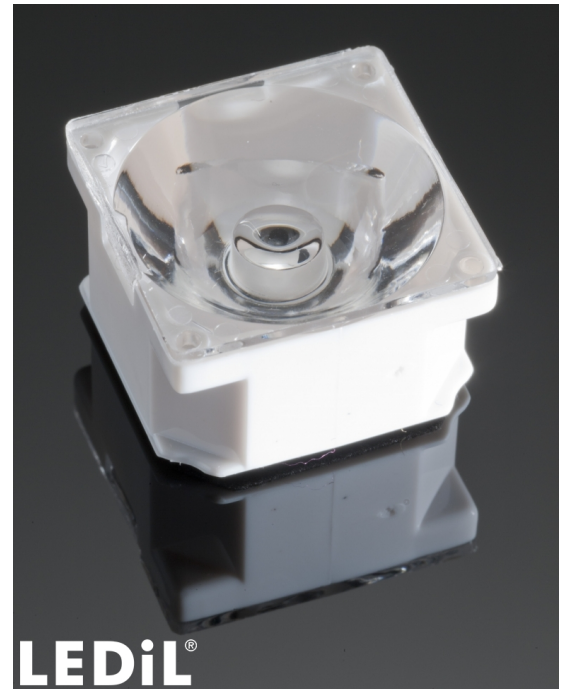


## LAURA-RS-PIN

~8° spot 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 ⓘ

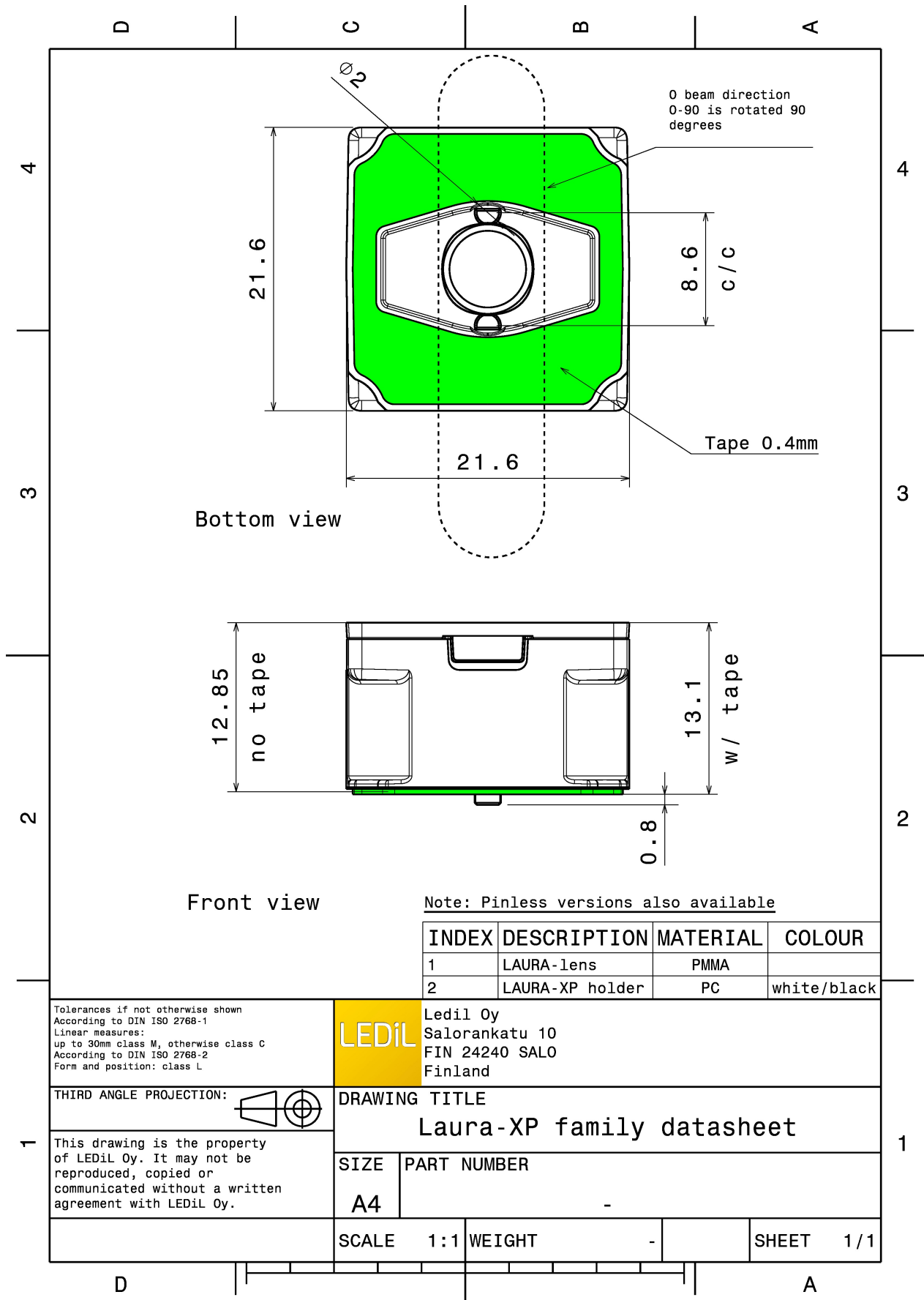


### MATERIAL SPECIFICATIONS:

Component	Type	Material	Colour	Finish
LAURA-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](http://www.ledil.com/installation_guide)

#### PHOTOMETRIC DATA (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

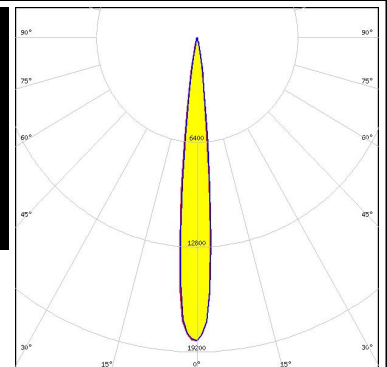
LED XP-G  
FWHM / FWTM 11.0°  
Efficiency 93 %  
LEDs/each optic 1  
Light colour White  
Required components:

##### LUMILEDS


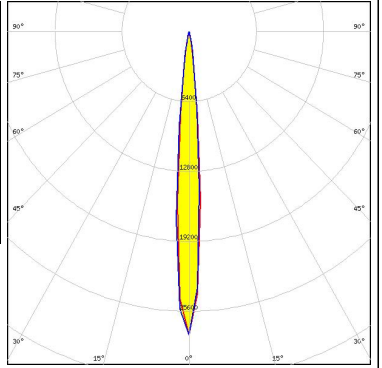

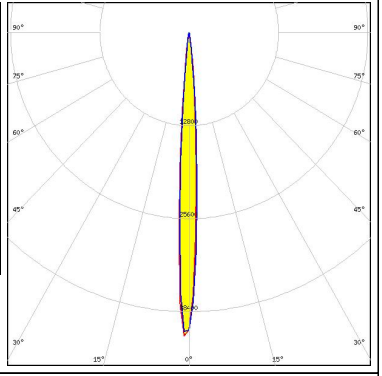
LED LUXEON Rebel  
FWHM / FWTM 7.0° / 16.0°  
Efficiency 93 %  
Peak intensity 34 cd/lm  
LEDs/each optic 1  
Light colour White  
Required components:

##### 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:



#### PHOTOMETRIC DATA (MEASURED):

<p><b>NICHIA</b></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><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLON 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><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLON 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><b>OSRAM</b>  <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>		

## PHOTOMETRIC DATA (MEASURED):

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

#### PHOTOMETRIC DATA (SIMULATED):

<p><b>CREE LED</b></p> <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><b>CREE LED</b></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><b>CREE LED</b></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><b>LUMILEDS</b></p> <p>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:</p>	

#### PHOTOMETRIC DATA (SIMULATED):

##### LUMILEDS

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

##### LUMILEDS

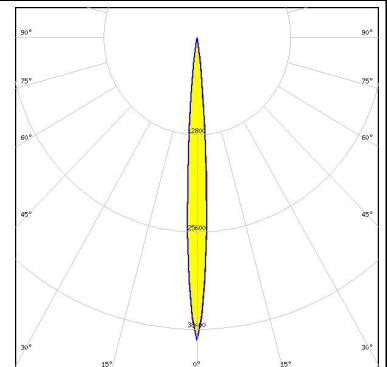
LED LUXEON IR Domed 60  
 FWHM / FWTM 9.2° / 20.0°  
 Efficiency 94 %  
 LEDs/each optic 1  
 Light colour White  
 Required components:

##### LUMILEDS

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

##### LUMILEDS

LED LUXEON Z ES  
 FWHM / FWTM 8.0° / 15.0°  
 Efficiency 95 %  
 Peak intensity 39.9 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



#### PHOTOMETRIC DATA (SIMULATED):

<p><b>NICHIA</b></p> <p>LED: NV4WB35AM            FWHM / FWTM: 16.0° / 30.0°            Efficiency: 96 %            Peak intensity: 9.1 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NVSxE21A            FWHM / FWTM: 10.0° / 21.0°            Efficiency: 94 %            Peak intensity: 21.4 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>NICHIA</b></p> <p>LED: NVSxx19B/NVSxx19C            FWHM / FWTM: 12.0° / 22.0°            Efficiency: 94 %            Peak intensity: 16.7 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED: KW CULPM1.TG            FWHM / FWTM: 8.0° / 16.0°            Efficiency: 96 %            Peak intensity: 37.6 cd/lm            LEDs/each optic: 1            Light colour: White            Required components:</p>	

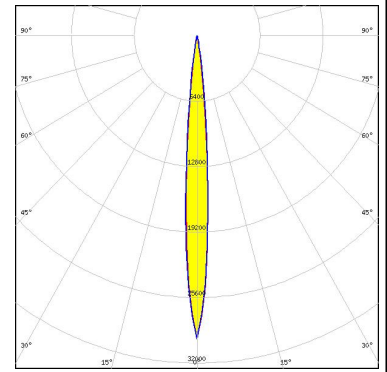


#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

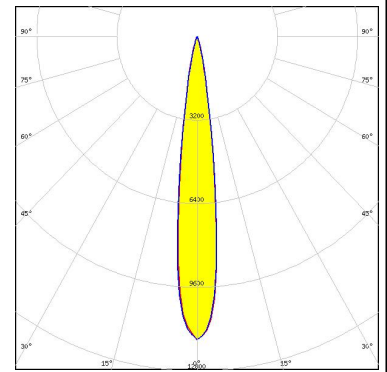
LED OSCONIQ C 2424  
 FWHM / FWTM 8.0° / 18.0°  
 Efficiency 96 %  
 Peak intensity 29.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

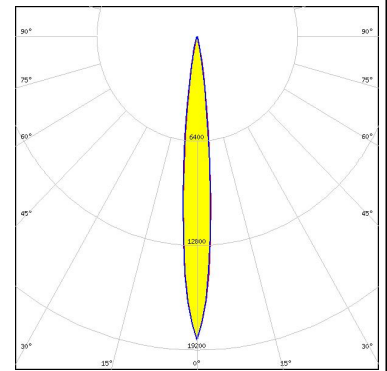
LED OSCONIQ P 3737 (3W version)  
 FWHM / FWTM 14.0° / 27.0°  
 Efficiency 94 %  
 Peak intensity 11.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

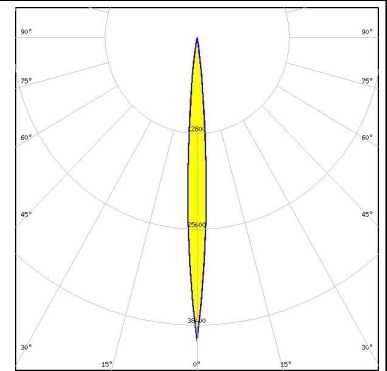
LED OSCONIQ P 3737 Flat  
 FWHM / FWTM 10.0° / 22.0°  
 Efficiency 96 %  
 Peak intensity 18.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

LED OSLOM Signal  
 FWHM / FWTM 8.0° / 16.0°  
 Efficiency 95 %  
 Peak intensity 40.5 cd/lm  
 LEDs/each optic 1  
 Light colour Red  
 Required components:

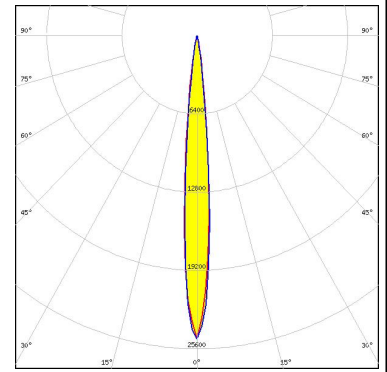


#### PHOTOMETRIC DATA (SIMULATED):

##### OSRAM

Opto Semiconductors

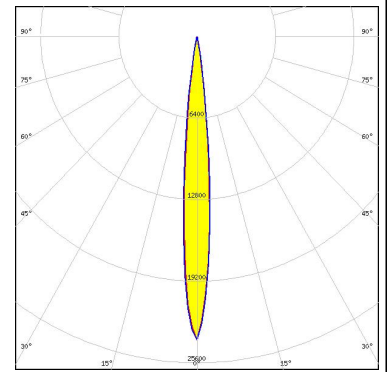
LED OSLON Square CSSRM2/CSSRM3  
 FWHM / FWTM 9.5° / 19.0°  
 Efficiency 94 %  
 Peak intensity 24.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### OSRAM

Opto Semiconductors

LED SFH 4715AS  
 FWHM / FWTM 10.0° / 19.0°  
 Efficiency 94 %  
 Peak intensity 23.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### 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:

## PHOTOMETRIC DATA (SIMULATED):

### SAMSUNG

LED	LM301B
FWHM / FWTM	9.0° / 19.0°
Efficiency	94 %
Peak intensity	24.5 cd/m
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:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

#### LEDiL Oy

Joensuunkatu 13  
FI-24240 SALO  
Finland

#### LEDiL Inc.

228 West Page Street  
Suite D  
Sycamore IL 60178  
USA

#### Ledil Optics Technology (Shenzhen) Co., Ltd.

# 405 , Block B  
Casic Motor Building  
Shenzhen 518057  
P.R.CHINA

#### Local sales and technical support

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)

#### Shipping locations

Salo, Finland  
Hong Kong, China

#### Distribution Partners

[www.ledil.com/  
where\\_to\\_buy](http://www.ledil.com/where_to_buy)