

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 ⓘ

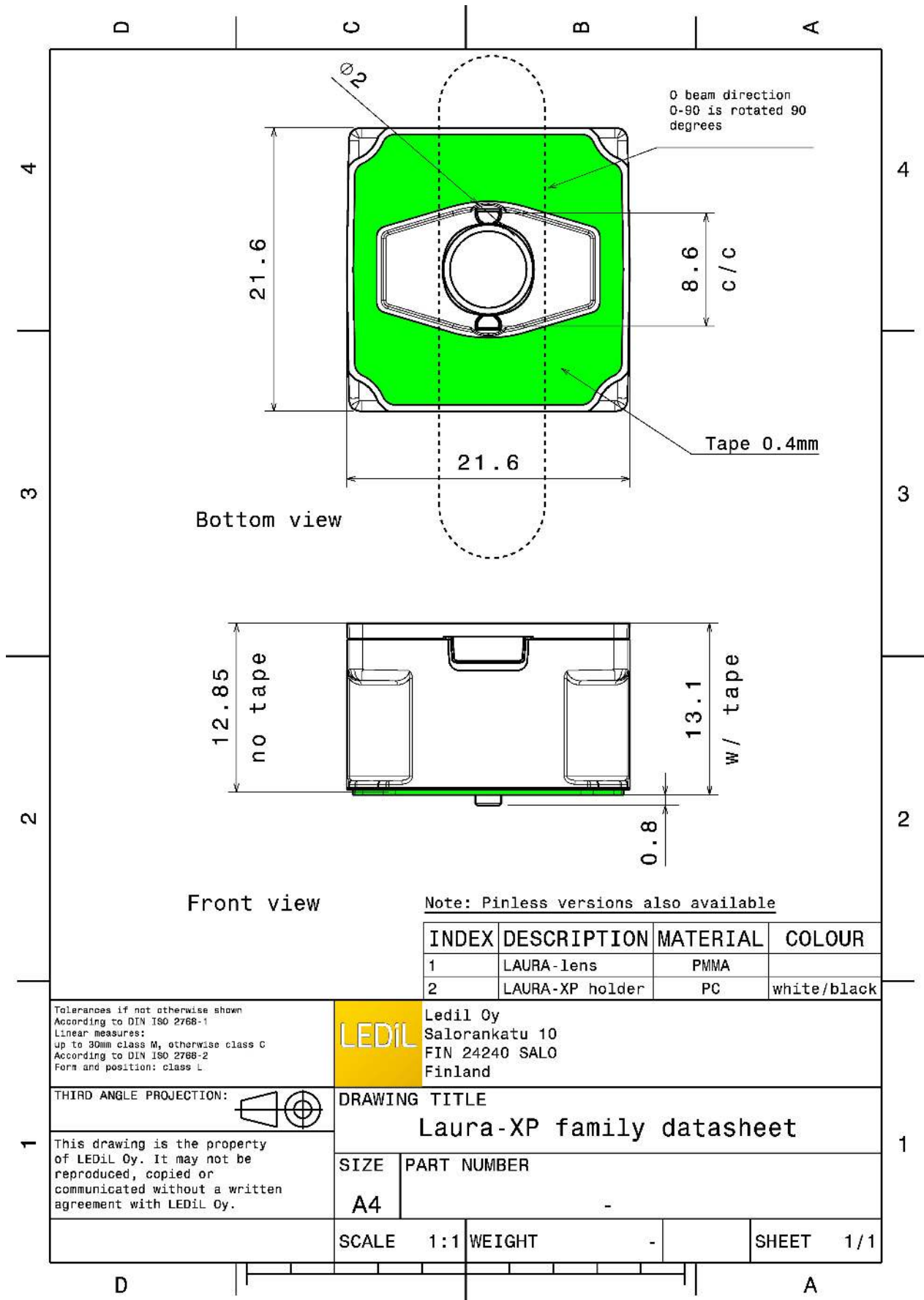


MATERIALS:

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	Type	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

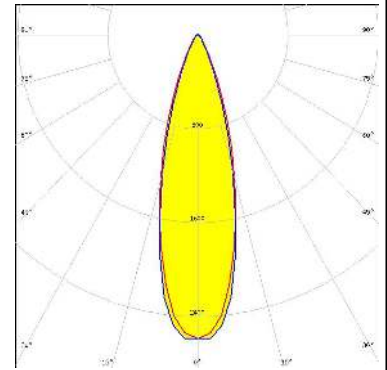
OPTICAL RESULTS (MEASURED):

CREE → LED

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

CREE → LED

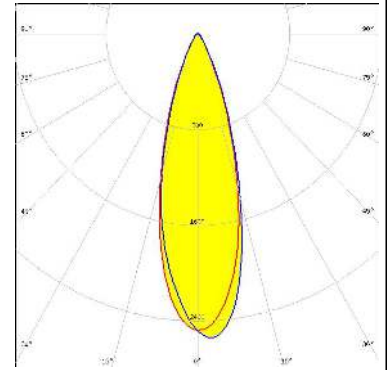
LED XP-E2
FWHM / FWTM 28.0° / 54.0°
Efficiency 88 %
Peak intensity 3 cd/m
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):

CREE LED

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

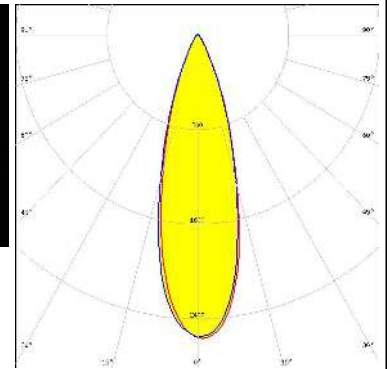
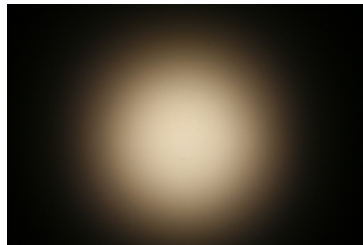


LUMILEDS

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:

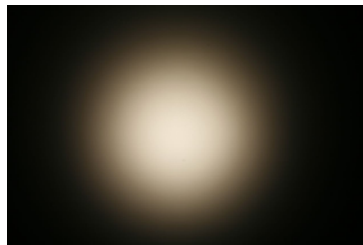
LUMILEDS

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:


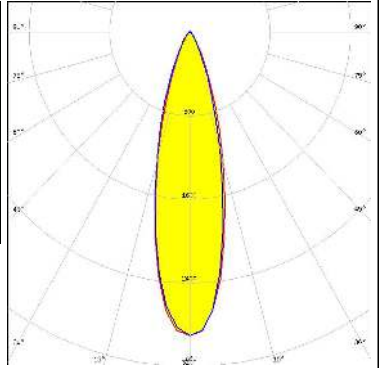

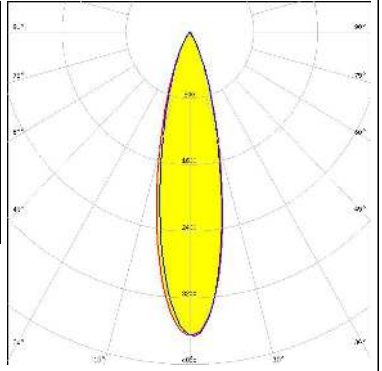

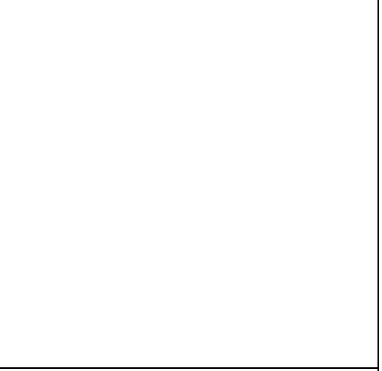




LUMILEDS

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>NICHIA</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>NICHIA</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>OSRAM <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>OSRAM <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

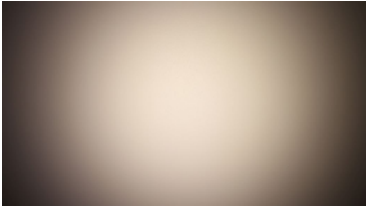
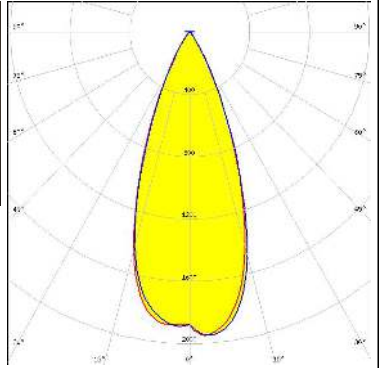
LED SFH 4725S
FWHM / FWTM 22.0° / 48.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:



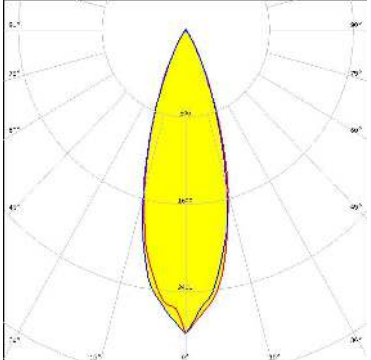
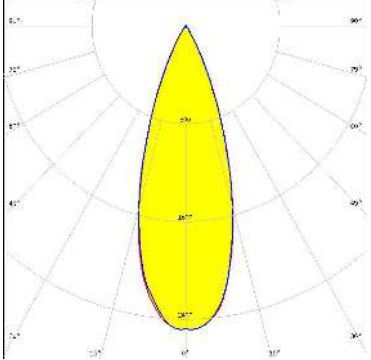
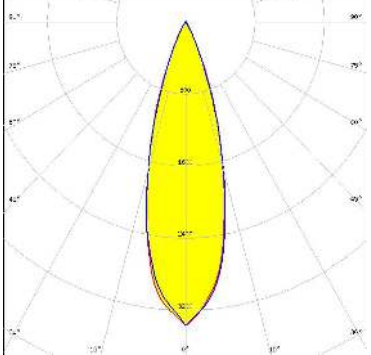
SEOUL SEMICONDUCTOR

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

OPTICAL RESULTS (SIMULATED):

<p>CREE LED</p> <p>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:</p>		
<p>LUMILEDS</p> <p>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:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON IR Domed 150 (L110-0xxx150000000) FWHM / FWTM: 20.0° / 41.0° Efficiency: 0 % LEDs/each optic: 1 Light colour: White Required components:</p>		
<p>LUMILEDS</p> <p>LED: LUXEON IR Domed 60 (L110-0xxx060000000) FWHM / FWTM: 25.0° / 44.0° Efficiency: 94 % LEDs/each optic: 1 Light colour: White Required components:</p>		

OPTICAL RESULTS (SIMULATED):

<p>LUMILEDS</p> <p>LED: LUXEON IR Domed 90 (L110-0xxx090000000)</p> <p>FWHM / FWTM: 25.0° / 48.0°</p> <p>Efficiency: 94 %</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: 32.0° / 56.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 2.8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p> 
<p>NICHIA</p> <p>LED: NVSxx19B/NVSxx19C</p> <p>FWHM / FWTM: 36.0° / 58.0°</p> <p>Efficiency: 94 %</p> <p>Peak intensity: 2.5 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: OSLOM Signal</p> <p>FWHM / FWTM: 30.0° / 51.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 3.4 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: Red</p> <p>Required components:</p>	

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

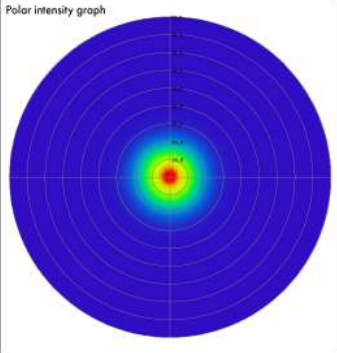
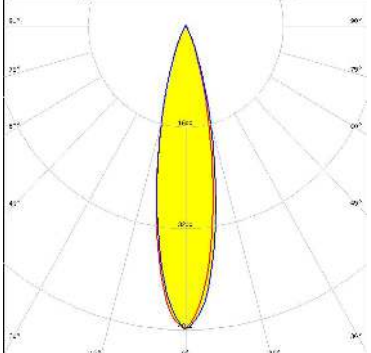
FWHM / FWTM: 23.0° / 44.0°

Efficiency: 96 %

LEDs/each optic: 1

Light colour: IR

Required components:

OSRAM
Opto Semiconductors

LED: SFH 4715S

FWHM / FWTM: 30.0°

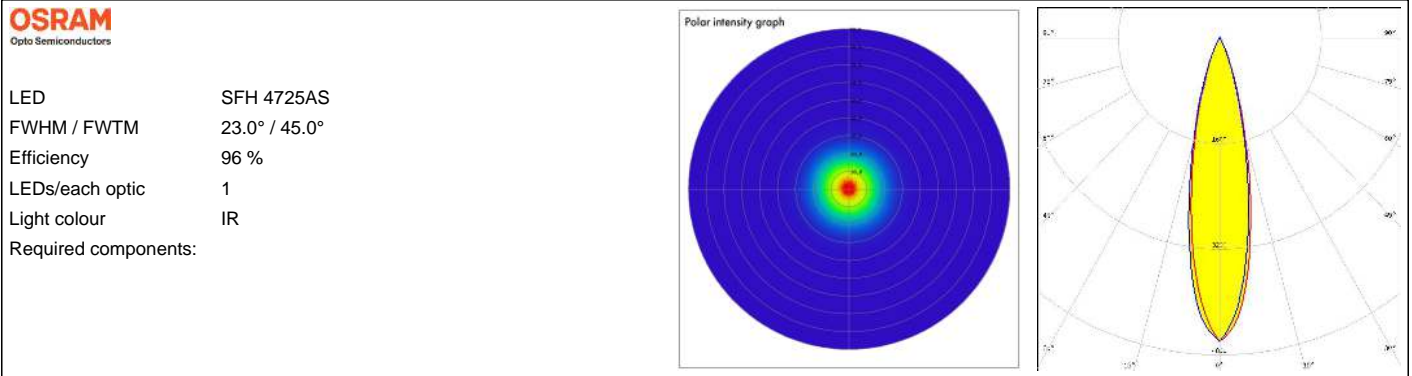
Efficiency: 85 %

LEDs/each optic: 1

Light colour: White

Required components:

OPTICAL RESULTS (SIMULATED):



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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