

LAURA-D-PIN

~15° diffused 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 ⓘ

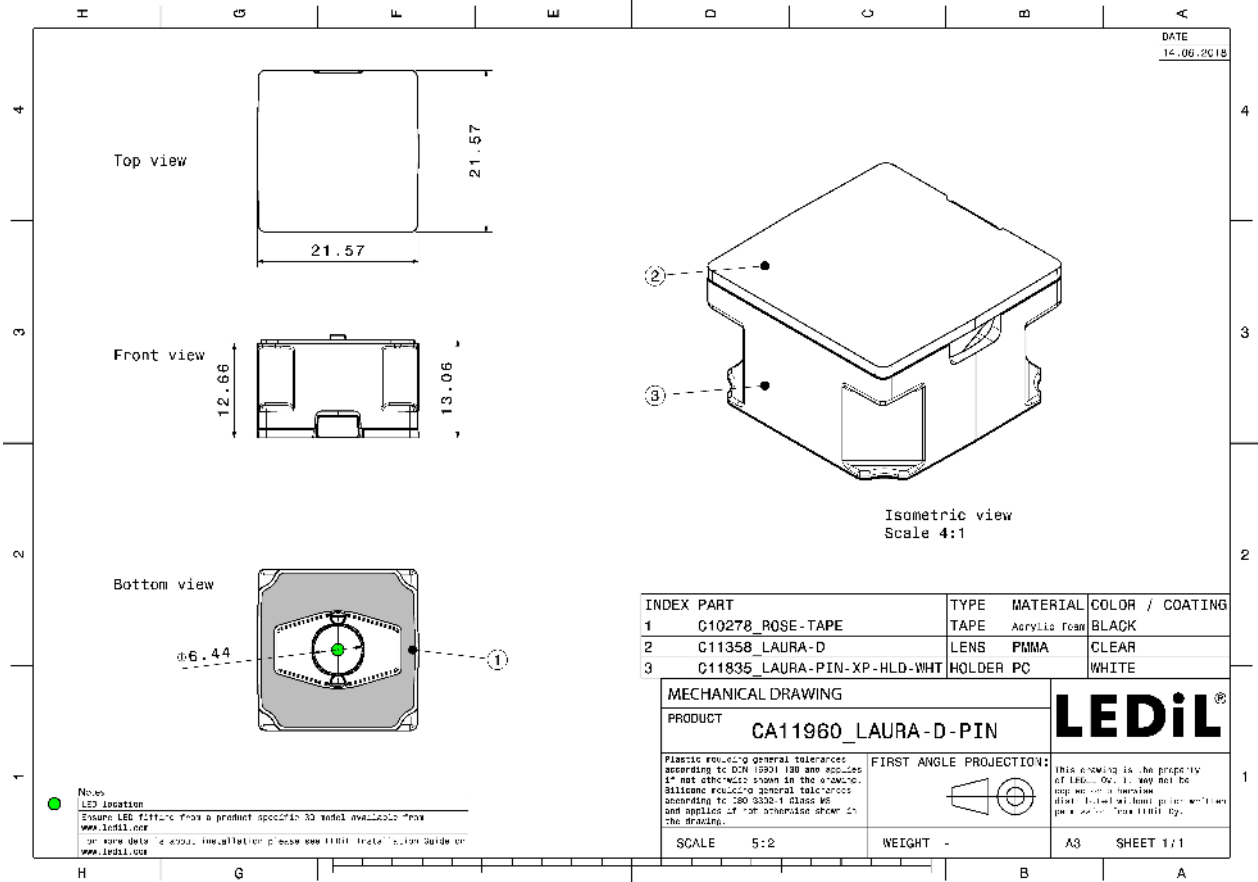


MATERIALS:

Component	Type	Material	Colour	Finish
LAURA-D	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)
CA11960_LAURA-D-PIN	Single lens	1440		180	7.5
» Box size:					



See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

CREE → LED

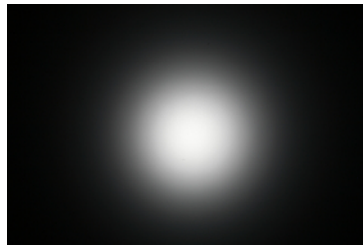
LED XP-E
FWHM / FWTM 13.0° / 31.0°
Efficiency 93 %
Peak intensity 9.3 cd/m
LEDs/each optic 1
Light colour White
Required components:

CREE → LED

LED XP-E-HEW
FWHM / FWTM 15.0° / 33.0°
Efficiency 86 %
Peak intensity 6.2 cd/m
LEDs/each optic 1
Light colour White
Required components:

CREE → LED

LED XP-E2
FWHM / FWTM 15.0° / 36.0°
Efficiency 88 %
Peak intensity 6.4 cd/m
LEDs/each optic 1
Light colour White
Required components:



CREE → LED

LED XP-G
FWHM / FWTM 16.0°
Efficiency 94 %
LEDs/each optic 1
Light colour White
Required components:

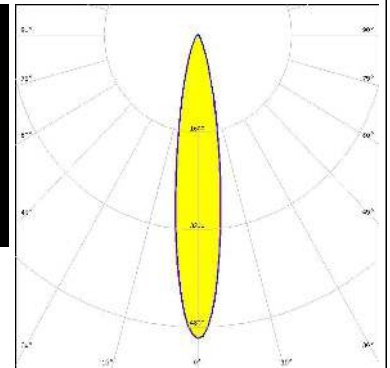
OPTICAL RESULTS (MEASURED):

LUMILEDS

LED LUXEON Rebel
 FWHM / FWTM 15.0° / 37.0°
 Efficiency 90 %
 Peak intensity 5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

LUMILEDS

LED LUXEON T
 FWHM / FWTM 18.0° / 40.0°
 Efficiency 89 %
 Peak intensity 4.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



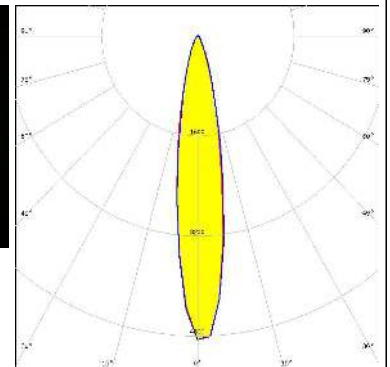
LUMILEDS

LED LUXEON Z ES
 FWHM / FWTM 15.0° / 34.0°
 Efficiency 90 %
 Peak intensity 7.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

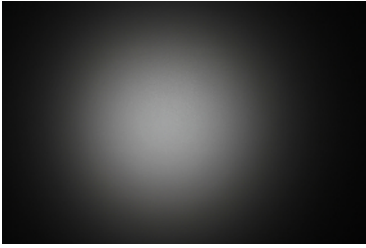
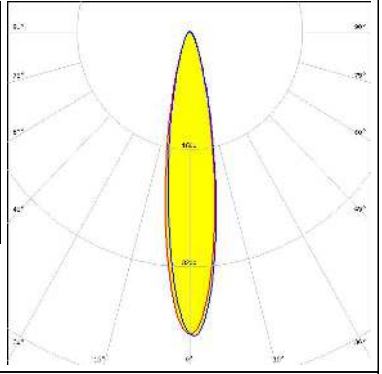


NICHIA


LED NCSxx19B
 FWHM / FWTM 19.0° / 41.0°
 Efficiency 85 %
 Peak intensity 5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:




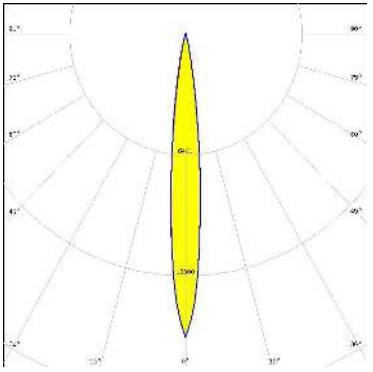

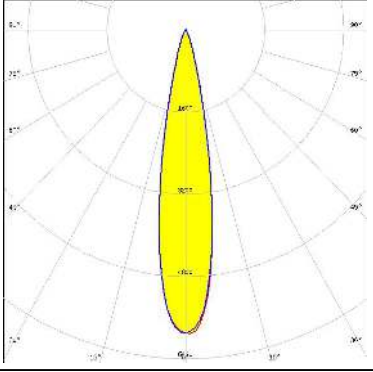

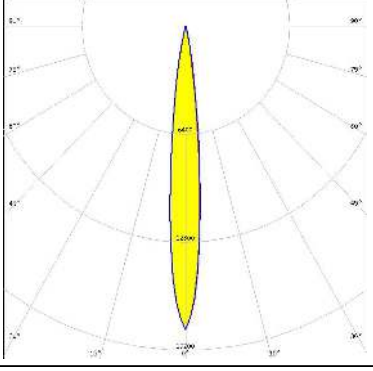

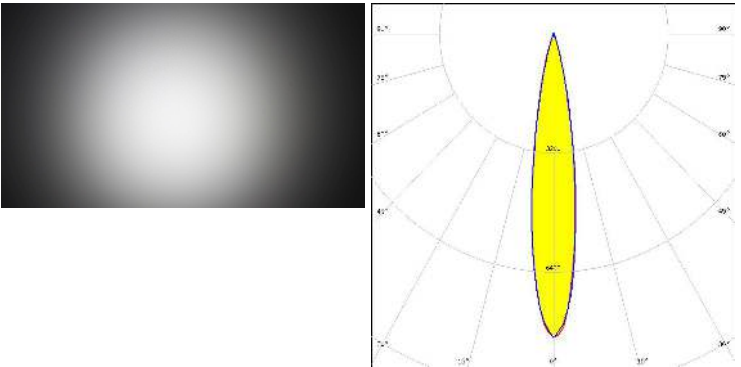
OPTICAL RESULTS (MEASURED):

<p>NICHIA</p> <p>LED NF2x757D FWHM / FWTM 19.0° / 43.0° Efficiency 84 % Peak intensity 4.2 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM Square EC FWHM / FWTM 16.0° / 34.0° Efficiency 81 % Peak intensity 6.7 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM SSL 150 FWHM / FWTM 12.0° / 28.0° Efficiency 83 % Peak intensity 8.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM SSL 80 FWHM / FWTM 14.0° / 31.0° Efficiency 83 % Peak intensity 7.3 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

 OSRAM Opto Semiconductors	
LED	SFH 4725S
FWHM / FWTM	18.0° / 42.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	
 SEMI-LED SEOUL SEMICONDUCTOR	
LED	Z5
FWHM / FWTM	14.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required components:	

OPTICAL RESULTS (SIMULATED):

	<p>LED: XD16 FWHM / FWTM: 12.0° / 23.0° Efficiency: 90 % Peak intensity: 16.1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
	<p>LED: XHP35.2 HD FWHM / FWTM: 20.0° / 36.0° Efficiency: 89 % Peak intensity: 5.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
	<p>LED: XP-E2 FWHM / FWTM: 12.0° / 22.0° Efficiency: 94 % Peak intensity: 18 cd/lm LEDs/each optic: 1 Light colour: Amber Required components:</p>	
	<p>LED: XP-G3 FWHM / FWTM: 17.0° / 32.0° Efficiency: 93 % Peak intensity: 8.2 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

LUMILEDS

LED LUXEON H50-2
FWHM / FWTM 13.0° / 28.0°
Efficiency 90 %
Peak intensity 9.5 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:

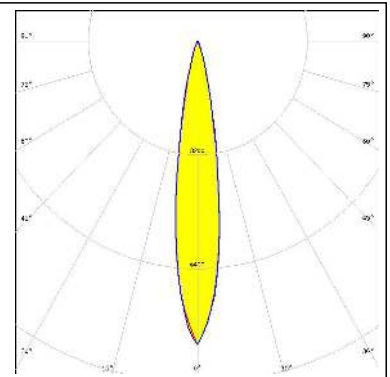
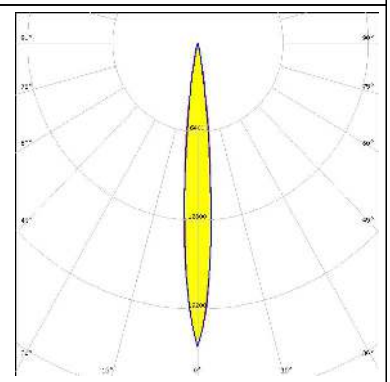
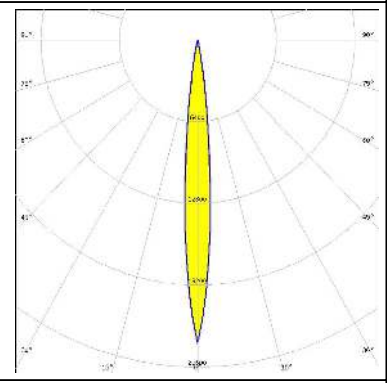
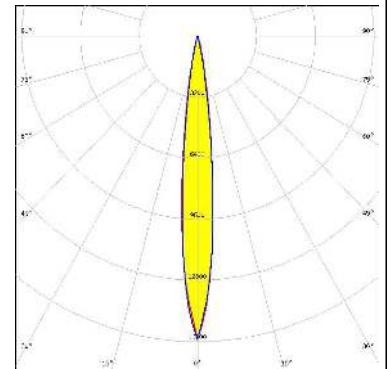
LUMILEDS

LED LUXEON IR Domed 60 (L110-0xxx060000000)
FWHM / FWTM 12.0° / 25.0°
Efficiency 94 %
LEDs/each optic 1
Light colour White
Required components:

LUMILEDS

LED LUXEON IR Domed 90 (L110-0xxx090000000)
FWHM / FWTM 12.0° / 24.0°
Efficiency 94 %
LEDs/each optic 1
Light colour White
Required components:

OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>LED NV4WB35AM FWHM / FWTM 16.0° / 32.0° Efficiency 96 % Peak intensity 8.5 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM Boost HX (KW CULPM1.TG) FWHM / FWTM 10.0° / 20.0° Efficiency 96 % Peak intensity 21.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM Signal FWHM / FWTM 10.0° / 20.0° Efficiency 96 % Peak intensity 23.8 cd/lm LEDs/each optic 1 Light colour Red Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOM Square CSSRM2/CSSRM3 FWHM / FWTM 12.0° / 24.0° Efficiency 96 % Peak intensity 15.9 cd/lm LEDs/each optic 1 Light colour White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

LED	SFH 4715S
FWHM / FWTM	13.0°
Efficiency	%
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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