

PRODUCT DATASHEET CA11960_LAURA-D-PIN

LAURA-D-PIN

~15° diffused spot beam optimized for CREE XP-E. Assembly with white holder, installation tape and location pins.

SPECIFICATION:

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



MATERIALS:

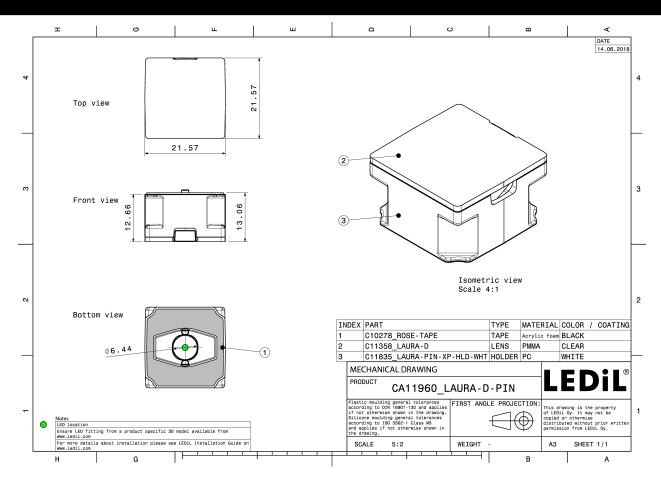
Component LAURA-D LAURA-PIN-XP-HLD-WHT ROSE-TAPE **Type** Single lens Holder Tape

	Material	Colour	Finish
S	PMMA	clear	
	PC	white	
	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11960_LAURA-D-PIN » Box size:	Single lens	1440		180	7.5

PRODUCT DATASHEET CA11960_LAURA-D-PIN



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



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

 LED
 XP-E-HEW

 FWHM / FWTM
 15.0° / 33.0°

 Efficiency
 86 %

 Peak intensity
 6.2 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 1

 LED
 XP-E2

 FWHM / FWTM
 15.0° / 36.0°

 Efficiency
 88 %

 Peak intensity
 6.4 cd/lm

 LEDs/each optic
 1

 Light colour
 White

 Required components:
 1



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

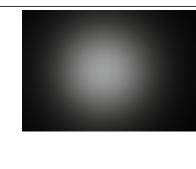


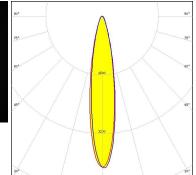
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LED	LUXEON Rebel	
FWHM / FWTM	15.0° / 37.0°	
Efficiency	90 %	
Peak intensity	5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
	EDS	90*
LED	LUXEON T	
FWHM / FWTM	18.0° / 40.0°	
Efficiency	89 %	
Peak intensity	4.5 cd/lm	
LEDs/each optic	1	
Light colour	White	g
Required compone	ents:	
		400
		357 of 157
🤭 LUMIL	.EDS	
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 compone	ents:	
~	_	
ØNICHI∕	k i i i i i i i i i i i i i i i i i i i	30 ⁺
LED	NCSxx19B	
FWHM / FWTM	19.0° / 41.0°	
Efficiency	85 %	er 100
Peak intensity	5 cd/lm	
LEDs/each optic	1	
Light colour	White	9
Required compone		
		30
		10 00 100



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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:				





OSRAM

LED	OSLON 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:			

OSRAM Opto Semiconductors

LED OSLON 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:

OSRAM Opto Semiconductors

- LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:
- OSLON SSL 80 14.0° / 31.0° 83 % 7.3 cd/lm 1 White



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



-		
		90* 90*
LED	XD16	
FWHM / FWTM	12.0° / 23.0°	75* 75*
Efficiency	90 %	
Peak intensity	16.1 cd/lm	60° 600
LEDs/each optic	1	
Light colour	White	
Required components:		1700
		30° 15° 0° 15° 30°
		50°
LED	XHP35.2 HD	
FWHM / FWTM	20.0° / 36.0°	75*
Efficiency	89 %	
Peak intensity	5.9 cd/lm	60°
LEDs/each optic	1	
Light colour	White	45. 45.
Required components:	white	
Required components.		400
		36° 36° 36° 36°
		90°
	XP.F2	50°
LED	XP-E2 12.0° / 22.0°	39 ⁴ 35 ⁵ 27
LED FWHM / FWTM	12.0° / 22.0°	<u>8</u> .
LED FWHM / FWTM Efficiency	12.0° / 22.0° 94 %	97 97 97 97 97 97 97 97 97 97 97 97 97
LED FWHM / FWTM Efficiency Peak intensity	12.0° / 22.0° 94 % 18 cd/lm	51 ⁴ 51 ⁴ 610 610 610 610
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 22.0° 94 % 18 cd/lm 1	g. 61 91 91 91 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 22.0° 94 % 18 cd/lm	97 97 97 97 97 97 97 97 97 97 97 97 97 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 22.0° 94 % 18 cd/lm 1	97 97 66 67 67 1000 1000
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 22.0° 94 % 18 cd/lm 1	91 91 92 91 92 92 92 92 92 92 92 92 92 92
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 22.0° 94 % 18 cd/lm 1	1300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 22.0° 94 % 18 cd/lm 1	1300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 22.0° 94 % 18 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 22.0° 94 % 18 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 22.0° 94 % 18 cd/lm 1 Amber	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 22.0° 94 % 18 cd/lm 1 Amber XP-G3	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 22.0° 94 % 18 cd/lm 1 Amber XP-G3 17.0° / 32.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency	12.0° / 22.0° 94 % 18 cd/lm 1 Amber XP-G3 17.0° / 32.0° 93 %	59 ⁴ 59
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity	12.0° / 22.0° 94 % 18 cd/lm 1 Amber XP-G3 17.0° / 32.0° 93 % 8.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 22.0° 94 % 18 cd/lm 1 Amber XP-G3 17.0° / 32.0° 93 % 8.2 cd/lm 1	5° 6° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 22.0° 94 % 18 cd/lm 1 Amber XP-G3 17.0° / 32.0° 93 % 8.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 22.0° 94 % 18 cd/lm 1 Amber XP-G3 17.0° / 32.0° 93 % 8.2 cd/lm 1	5° 6° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 22.0° 94 % 18 cd/lm 1 Amber XP-G3 17.0° / 32.0° 93 % 8.2 cd/lm 1	5° 6° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5



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 (L1I0-0xxx150000000)
FWHM / FWTM	9.0° / 18.0°
Efficiency	0 %
LEDs/each optic	1
Light colour	White
Required components:	

UMILEDS

UMILEDS

LED	LUXEON IF
FWHM / FWTM	12.0° / 24.0
Efficiency	94 %
LEDs/each optic	1
Light colour	White
Required components:	

ON IR Domed 90 (L1I0-0xxx090000000) / 24.0°



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Μ ΝΙCΗΙΛ		90°
LED	NV4WB35AM	
FWHM / FWTM	16.0° / 32.0°	73*
Efficiency	96 %	
Peak intensity	8.5 cd/lm	60 ⁵ 60 ⁴
LEDs/each optic	1	
Light colour	White	gs* gg*
Required components:		
		6400
		30°
		15° 0° 15°
OSRAM Opto Semiconductors		90* A 90*
LED	OSLON Boost HX (KW CULPM1.TG)	
FWHM / FWTM	10.0° / 20.0°	25
Efficiency	96 %	600 600
Peak intensity	21.9 cd/lm	$f \times / / \setminus \times \uparrow$
LEDs/each optic	1	
Light colour	White	gy* 43*
Required components:		
		30* 36*
OSDAM		
OSRAM Opto Semiconductors		90°
OSRAM Opto Semiconductors LED	OSLON Signal	
Opto Semiconductors LED FWHM / FWTM	10.0° / 20.0°	
Opto Semiconductors LED FWHM / FWTM Efficiency	10.0° / 20.0° 96 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	10.0° / 20.0° 96 % 23.8 cd/lm	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 20.0° 96 % 23.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 96 % 23.8 cd/lm	
opto semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 20.0° 96 % 23.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 96 % 23.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 96 % 23.8 cd/lm 1	75 600 9 9 1300 1300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 96 % 23.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 20.0° 96 % 23.8 cd/lm 1	75 600 9 9 1300 1300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components:	10.0° / 20.0° 96 % 23.8 cd/lm 1 Red	75 600 9 9 1300 1300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	10.0° / 20.0° 96 % 23.8 cd/lm 1 Red OSLON Square CSSRM2/CSSRM3	75 600 9 9 1300 1300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	10.0° / 20.0° 96 % 23.8 cd/lm 1 Red OSLON Square CSSRM2/CSSRM3 12.0° / 24.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	10.0° / 20.0° 96 % 23.8 cd/lm 1 Red OSLON Square CSSRM2/CSSRM3 12.0° / 24.0° 96 %	75 600 9 9 1300 1300 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	10.0° / 20.0° 96 % 23.8 cd/lm 1 Red OSLON Square CSSRM2/CSSRM3 12.0° / 24.0° 96 % 15.9 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 20.0° 96 % 23.8 cd/lm 1 Red OSLON Square CSSRM2/CSSRM3 12.0° / 24.0° 96 % 15.9 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 96 % 23.8 cd/lm 1 Red OSLON Square CSSRM2/CSSRM3 12.0° / 24.0° 96 % 15.9 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 20.0° 96 % 23.8 cd/lm 1 Red OSLON Square CSSRM2/CSSRM3 12.0° / 24.0° 96 % 15.9 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 96 % 23.8 cd/lm 1 Red OSLON Square CSSRM2/CSSRM3 12.0° / 24.0° 96 % 15.9 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 96 % 23.8 cd/lm 1 Red OSLON Square CSSRM2/CSSRM3 12.0° / 24.0° 96 % 15.9 cd/lm 1	



OSRAM Opto Semiconductors	
LED	SFH 4715S
FWHM / FWTM	13.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required component	is:



PRODUCT DATASHEET CA11960_LAURA-D-PIN

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.

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