

PRODUCT DATASHEET CA11959_LAURA-RS-PIN

LAURA-RS-PIN

~8° 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-RS
LAURA-PIN-XP-HLD-WHT
ROSE-TAPE

Туре	Μ
Single lens	Ρ
Holder	P
Таре	A

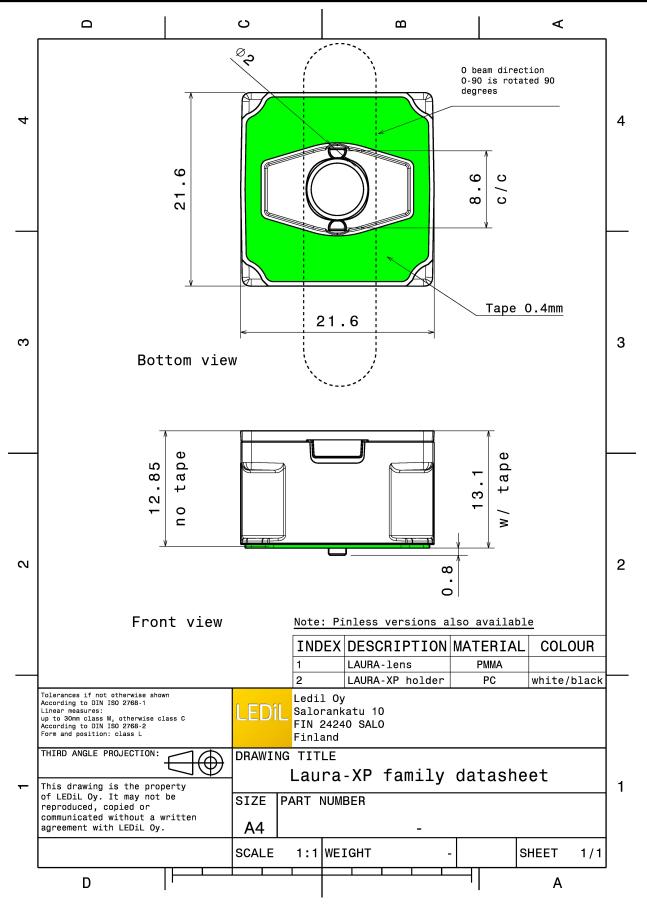
Material	Colour	Finish
PMMA	clear	
PC	white	
Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11959_LAURA-RS-PIN	Single lens	1440	360	180	7.6
» Box size:					



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



OPTICAL RESULTS (MEASURED):

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 component	
LED	XP-G
FWHM / FWTM	11.0°
Efficiency	93 %
LEDs/each optic	1
Light colour	White
Required component	ints:
🥙 LUMIL	.EDS
LED	LUXEON Rebel
FWHM / FWTM	7.0° / 16.0°
Efficiency	93 %
Peak intensity	34 cd/lm
LEDs/each optic	1
Light colour	White
Required compone	ints:
	EDS
LED	LUXEON T
FWHM / FWTM	11.0° / 21.0°
Efficiency	92 %
Peak intensity	18.5 cd/lm
LEDs/each optic	
Light colour	White a
Required component	
	\times / \vee \times
	30° 1000 3
	155 [°] 0 [°] 55 [°]

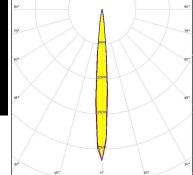


OPTICAL RESULTS (MEASURED):

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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:		



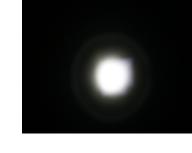


OSRAM Opto Semiconductore

LED	05
FWHM / FWTM	9.0
Efficiency	93
Peak intensity	20
LEDs/each optic	1
Light colour	W
Required componen	ts:

OSLON Square EC 9.0° / 18.0° 93 % 20 cd/lm 1 White hts:

OSRAM Opto Semiconductors



OSRAM

LED	SFH 4725S
FWHM / FWTM	10.0° / 21.0°
Efficiency	%
LEDs/each optic	1
Light colour	White
Required componen	ts:



OPTICAL RESULTS (MEASURED):

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



LED FWHM / FWTM Efficiency	XD16 8.6° / 18.0° 94 %	22 24 24 25
Peak intensity	26.9 cd/lm	60°
LEDs/each optic Light colour	1 White	45*
Required components:	Wille	
		15 ⁵ 0 ⁶ 15 ⁵
		9 0 ⁺
LED FWHM / FWTM	XP-E2	75
Efficiency	8.0° / 14.0° 95 %	
Peak intensity	95 % 44 cd/lm	60°
LEDs/each optic	1	
Light colour	' White	45° 45°
Required components:	Wille	$K \neq 1$
Required components.		
		30 ⁴ 15 ⁵ 0 ⁶ 15 ⁵ 38 ⁵
		50* 50*
LED	XP-P	<u>87</u> <u>84</u> <u>84</u> <u>85</u>
LED FWHM / FWTM	6.0° / 14.0°	
LED FWHM / FWTM Efficiency	6.0° / 14.0° 96 %	
LED FWHM / FWTM Efficiency Peak intensity	6.0° / 14.0° 96 % 50.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	6.0° / 14.0° 96 % 50.9 cd/lm 1	64. 12.00 13.1 13.1 13.1 13.1 13.1 13.1 13.1 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	6.0° / 14.0° 96 % 50.9 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	6.0° / 14.0° 96 % 50.9 cd/lm 1	64. 250 26.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	6.0° / 14.0° 96 % 50.9 cd/lm 1	64. 12.00 13.1 13.1 13.1 13.1 13.1 13.1 13.1 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	6.0° / 14.0° 96 % 50.9 cd/lm 1	64. 12.00 13.1 13.1 13.1 13.1 13.1 13.1 13.1 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	6.0° / 14.0° 96 % 50.9 cd/lm 1	64. 240 251 252
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	6.0° / 14.0° 96 % 50.9 cd/lm 1	y. 300 X.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	6.0° / 14.0° 96 % 50.9 cd/lm 1 White	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	6.0° / 14.0° 96 % 50.9 cd/lm 1 White	y. 3100 - 37
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	6.0° / 14.0° 96 % 50.9 cd/lm 1 White XQ-E HI 6.0° / 10.0°	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	6.0° / 14.0° 96 % 50.9 cd/lm 1 White XQ-E HI 6.0° / 10.0° 93 %	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	6.0° / 14.0° 96 % 50.9 cd/lm 1 White XQ-E HI 6.0° / 10.0° 93 % 82.6 cd/lm	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	6.0° / 14.0° 96 % 50.9 cd/lm 1 White XQ-E HI 6.0° / 10.0° 93 % 82.6 cd/lm 1	y. 3100 - 37
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	6.0° / 14.0° 96 % 50.9 cd/lm 1 White XQ-E HI 6.0° / 10.0° 93 % 82.6 cd/lm	y. 3100 - 37
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	6.0° / 14.0° 96 % 50.9 cd/lm 1 White XQ-E HI 6.0° / 10.0° 93 % 82.6 cd/lm 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	6.0° / 14.0° 96 % 50.9 cd/lm 1 White XQ-E HI 6.0° / 10.0° 93 % 82.6 cd/lm 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	6.0° / 14.0° 96 % 50.9 cd/lm 1 White XQ-E HI 6.0° / 10.0° 93 % 82.6 cd/lm 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	6.0° / 14.0° 96 % 50.9 cd/lm 1 White XQ-E HI 6.0° / 10.0° 93 % 82.6 cd/lm 1	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5



LUMILEDS

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:	

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

LED	LUXEON IR Domed 60 (L1I0-0xxx060000000)
FWHM / FWTM	9.2° / 20.0°
Efficiency	94 %
LEDs/each optic	1
Light colour	White
Required components:	

LUMILEDS

LED	LUXEON IR Domed 90 (L1I0-0xxx090000000)
FWHM / FWTM	9.0° / 18.0°
Efficiency	94 %
LEDs/each optic	1
Light colour	White
Required components:	



)S	50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON Z ES 8.0° / 15.0° 95 % 39.9 cd/lm 1 White	90- 90- 62- 64- 90- 90- 90- 90- 90- 90- 90- 90- 90- 90
Μ ΝΙCΗΙΛ		90* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NV4WB35AM 16.0° / 30.0° 96 % 9.1 cd/lm 1 White	5° 50 50 50 50 50 50 50 50 50 50 50 50 50
		159 0 ⁰ 350
WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSW719AC 10.0° / 20.0° 96 % 21.4 cd/lm 1 White	5° 9° 9° 9° 6° 7° 1000 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxE21A 10.0° / 21.0° 94 % 21.4 cd/lm 1 White	5° 6° 6° 6° 7° 1000 6° 6° 6° 6° 6° 6° 6° 6° 6° 6°



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ΜΝΙCΗΙΛ		90°
LED FWHM / FWTM	NVSxx19B/NVSxx19C 12.0° / 22.0°	77
Efficiency	94 %	50°
Peak intensity	16.7 cd/lm	600
LEDs/each optic	1	
Light colour	White	
Required components:		12800
		300
		15° 0° 35°
OSRAM Opto Semiconductors		90° 90°
LED	OSCONIQ C 2424	
FWHM / FWTM	8.0° / 18.0°	79 200
Efficiency	96 %	69 ⁴
Peak intensity	29.6 cd/lm	
LEDs/each optic	1	
Light colour	White	er* er*
Required components:		
		\times / \vee \times
		30° 30° 30°
OSRAM		90* 90*
OSRAM Opto Semiconductors	OSCONIQ P 3737 (3W version)	55'
OSRAM Opto Semiconductors LED FWHM / FWTM	OSCONIQ P 3737 (3W version) 14.0° / 27.0°	33 39 99
LED		50 50 50 50 50 50 50 50 50 50 50 50 50 5
LED FWHM / FWTM	14.0° / 27.0°	
LED FWHM / FWTM Efficiency	14.0° / 27.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 27.0° 94 % 11.6 cd/lm	61
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	14.0° / 27.0° 94 % 11.6 cd/lm 1	61
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 27.0° 94 % 11.6 cd/lm 1	61
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 27.0° 94 % 11.6 cd/lm 1	619 62 619 619 619 619 619
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 27.0° 94 % 11.6 cd/lm 1	619 62 619 619 619 619 619
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 27.0° 94 % 11.6 cd/lm 1	gg
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 27.0° 94 % 11.6 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 27.0° 94 % 11.6 cd/lm 1 White	200 10° 10° 10° 10° 10° 10° 10° 10° 10° 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	14.0° / 27.0° 94 % 11.6 cd/lm 1 White	23. 23. 24. 200 200 200 200 200 200 200 200 200 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OBSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	14.0° / 27.0° 94 % 11.6 cd/lm 1 White OSCONIQ P 3737 Flat 10.0° / 22.0°	23. 23. 24. 200 200 200 200 200 200 200 200 200 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM	14.0° / 27.0° 94 % 11.6 cd/lm 1 White OSCONIQ P 3737 Flat 10.0° / 22.0° 96 %	51 ⁴ 51 ⁴ 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	14.0° / 27.0° 94 % 11.6 cd/lm 1 White OSCONIQ P 3737 Flat 10.0° / 22.0° 96 % 18.6 cd/lm	23. 23. 24. 200 200 200 200 200 200 200 200 200 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 27.0° 94 % 11.6 cd/lm 1 White OSCONIQ P 3737 Flat 10.0° / 22.0° 96 % 18.6 cd/lm 1	90* 300 60* 90* 90* 90* 90* 60% 90%
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 27.0° 94 % 11.6 cd/lm 1 White OSCONIQ P 3737 Flat 10.0° / 22.0° 96 % 18.6 cd/lm 1	90* 300 60* 90* 90* 90* 90* 60% 90%
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	14.0° / 27.0° 94 % 11.6 cd/lm 1 White OSCONIQ P 3737 Flat 10.0° / 22.0° 96 % 18.6 cd/lm 1	90* 300 60* 90* 90* 90* 90* 60% 90%
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	14.0° / 27.0° 94 % 11.6 cd/lm 1 White OSCONIQ P 3737 Flat 10.0° / 22.0° 96 % 18.6 cd/lm 1	601 200 602 601 603 602 305 100 92 305 100 92 305 100 92 305 100 92 305 100 92 305 100 92 305 100 92 305 100 92 305 100 92 305 100 92



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OSRAM Opto Semiconductors		90°
LED	OSLON Boost HX (KW CULPM1.TG)	75*
FWHM / FWTM	8.0° / 16.0°	
Efficiency	96 %	605 605
Peak intensity	37.6 cd/lm	\land / / \land \land /
LEDs/each optic	1	
Light colour	White	43 ⁴ 43 ⁵
Required components:		
		30° 33400 36° 36°
OSRAM Opto Semiconductors		90* 96
UED	OSLON Signal	
FWHM / FWTM	8.0° / 16.0°	73
Efficiency	95 %	
Peak intensity	40.5 cd/lm	60 ⁴
LEDs/each optic	1	
Light colour	Red	ar
Required components:		
		30° 30°
		10) 0 10
OSRAM Opto Semiconductors		200 ⁴ A 90 ⁴
OSRAM Opto Semiconductors LED	OSLON Square CSSRM2/CSSRM3	
Opto Semiconductors	OSLON Square CSSRM2/CSSRM3 9.5° / 19.0°	
Opto Semiconductors		75
^{Opto Semiconductors} LED FWHM / FWTM	9.5° / 19.0°	
Opto Semiconductors LED FWHM / FWTM Efficiency	9.5° / 19.0° 94 %	75
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity	9.5° / 19.0° 94 % 24.8 cd/lm	79
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	9.5° / 19.0° 94 % 24.8 cd/lm 1	75
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	9.5° / 19.0° 94 % 24.8 cd/lm 1	75
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	9.5° / 19.0° 94 % 24.8 cd/lm 1	1200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	9.5° / 19.0° 94 % 24.8 cd/lm 1	1200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.5° / 19.0° 94 % 24.8 cd/lm 1	201 201 201 201 201 201 201 201 201 201
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.5° / 19.0° 94 % 24.8 cd/lm 1 White	201 201 201 201 201 201 201 201 201 201
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSERAM Opto Semiconductors LED	9.5° / 19.0° 94 % 24.8 cd/lm 1 White SFH 4715AS	50 50 50 50 50 50 50 50 50 50
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: ODSRAM Opto Semiconductors LED FWHM / FWTM	9.5° / 19.0° 94 % 24.8 cd/lm 1 White SFH 4715AS 10.0° / 19.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Peak Opto Semiconductors LED FWHM / FWTM Efficiency	9.5° / 19.0° 94 % 24.8 cd/lm 1 White SFH 4715AS 10.0° / 19.0° 94 %	50 50 50 50 50 50 50 50 50 50
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.5° / 19.0° 94 % 24.8 cd/lm 1 White SFH 4715AS 10.0° / 19.0° 94 % 23.8 cd/lm	22 00 00 00 00 00 00 00 00 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	9.5° / 19.0° 94 % 24.8 cd/lm 1 White SFH 4715AS 10.0° / 19.0° 94 % 23.8 cd/lm 1	22 00 00 00 00 00 00 00 00 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	9.5° / 19.0° 94 % 24.8 cd/lm 1 White SFH 4715AS 10.0° / 19.0° 94 % 23.8 cd/lm	22 00 00 00 00 00 00 00 00 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	9.5° / 19.0° 94 % 24.8 cd/lm 1 White SFH 4715AS 10.0° / 19.0° 94 % 23.8 cd/lm 1	22 00 00 00 00 00 00 00 00 00
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: COSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	9.5° / 19.0° 94 % 24.8 cd/lm 1 White SFH 4715AS 10.0° / 19.0° 94 % 23.8 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	9.5° / 19.0° 94 % 24.8 cd/lm 1 White SFH 4715AS 10.0° / 19.0° 94 % 23.8 cd/lm 1	22 23 24 25 25 25 25 25 25 25 25 25 25



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	
0.	
SAMSU	NG
LED	LM301B
FWHM / FWTM	9.0° / 19.0°
Efficiency	94 %
Peak intensity	24.5 cd/lm
LEDs/each optic	1
Light colour	White
Required components	



PRODUCT DATASHEET CA11959_LAURA-RS-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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LEDiL Oy

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