

# PRODUCT DATASHEET CA13628\_G2-LAURA-RS-P

# **G2-LAURA-RS-P**

~8° spot beam. Assembly with thinner 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** LAURA-RS LAURA-LT-PIN-XP-HLD-WHT ROSE-TAPE

Туре	
Single lens	
Holder	
Таре	

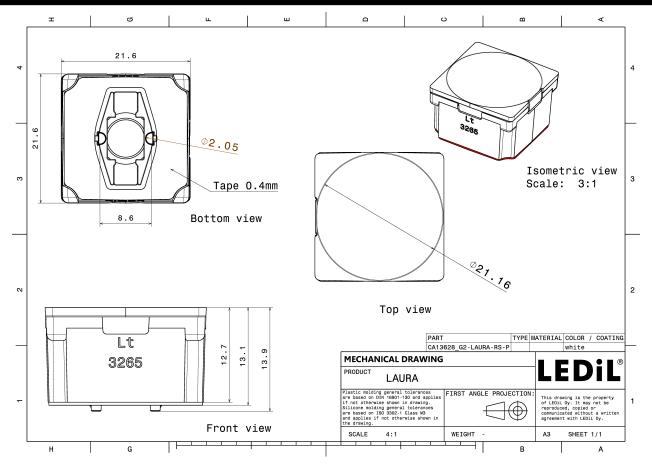
Material	Colour	Finish
PMMA	clear	
PC	white	
Acrylic foam	black	
	PMMA PC	PMMA clear PC white

### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA13628_G2-LAURA-RS-P	Single lens	1440	360	180	5.9
» Box size: 460 x 260 x 160 mm					



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See also our general installation guide: <u>www.ledil.com/installation\_guide</u>



CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XB-H 11.0° / 20.0° 91 % 20.5 cd/lm 1 White nts:	20- 20- 20- 20- 20- 20- 20- 20-
CREE ≑		15 <sup>5</sup> 0 <sup>h</sup> 15 <sup>5</sup>
LEDS		
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 compone	nts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-E2 8.0° / 15.0° 91 % 41.4 cd/lm 1 White nts:	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-L HD 16.0° / 27.0° 90 % 10.3 cd/lm 1 White nts:	610 610 610 610 610 610 610 610
		30 <sup>4</sup> 35 <sup>7</sup> 6 <sup>6</sup> 35 <sup>7</sup>



		30 <sup>4</sup> 30 <sup>4</sup>
LED	XQ-E HI	
FWHM / FWTM	5.0° / 11.0°	
Efficiency	94 %	
Peak intensity	65.3 cd/lm	
LEDs/each optic	1	
Light colour	White	gr det
Required compone	ents:	
	EDC	23% 04 12%
		<u>90<sup>4</sup></u> 90 <sup>4</sup>
LED	LUXEON 3030 2D (Round LES)	75
FWHM / FWTM	9.0° / 20.0°	
Efficiency	92 %	9/* · · · · · · · · · · · · · · · · · · ·
Peak intensity	22.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		300 June 100
	EDS	304
		90 <sup>3</sup> 50 <sup>4</sup>
LUMIL	LUXEON TX	94 <sup>3</sup>
LED FWHM / FWTM		99°
LED FWHM / FWTM Efficiency	LUXEON TX 11.0° / 21.0°	
LED FWHM / FWTM	LUXEON TX 11.0° / 21.0° 90 %	8/2 3/2 3/2 3/2 3/2 3/2 3/2 3/2 3/2 3/2 3
LED FWHM / FWTM Efficiency Peak intensity	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White ents: NCSxx19A	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White ents: NCSxx19A 10.0° / 20.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White ents: NCSxx19A 10.0° / 20.0° 90 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White ents: NCSxx19A 10.0° / 20.0° 90 % 25.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White ents: NCSxx19A 10.0° / 20.0° 90 % 25.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White MCSxx19A 10.0° / 20.0° 90 % 25.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White MCSxx19A 10.0° / 20.0° 90 % 25.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHIM LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White MCSxx19A 10.0° / 20.0° 90 % 25.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 11.0° / 21.0° 90 % 20 cd/lm 1 White MCSxx19A 10.0° / 20.0° 90 % 25.3 cd/lm 1 White	



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LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW219D 12.0° / 22.0° 94 % 15.9 cd/lm 1 White	No.     64.     No.     95.       84.     1200     46.     46.       84.     1200     46.     46.       1200     1200     46.     46.       1200     1200     46.     46.       1200     1200     46.     46.       1200     1200     46.     46.       1200     1200     46.     46.       1200     1200     46.     46.       1200     1200     46.     46.       1200     1200     46.     46.       1200     1200     46.     46.       1200     1200     46.     46.       1200     1200     120.     46.       1200     120.     120.     46.       1200     120.     120.     46.       1200     120.     120.     46.       1200     120.     120.     46.
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19A 12.0° / 23.0° 90 % 17.8 cd/lm 1 White	94 95 95 95 95 95 95 95 95 95 95 95 95 95
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19B/NVSxx19C 12.0° / 24.0° 90 % 16.3 cd/lm 1 White	25, 1996 75,
Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone	PLPVEC2 850A 6.0° / 14.0° % 1 IR nts:	



SAMS LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LH351D 16.0° / 29.0° 94 % 9 cd/lm 1 White	
		20 <sup>1</sup>
ESOUL SEMICONDUCTOR LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	Z5M1/Z5M2 11.0° / 19.0° 91 % 20 cd/lm 1 White	
Required compone		20- 25- 0- 25- 32
seout semiconouctor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	Z5M3 12.0° / 24.0° 94 % 14.4 cd/lm 1	
Light colour Required compone	White ents:	



		90* 90*
LED	XD16	
FWHM / FWTM	9.0° / 18.0°	73'
Efficiency	93 %	X / Hand
Peak intensity	27 cd/lm	60°
LEDs/each optic	1 White	5°
Light colour Required components:	White	
Required components:		
		X   X
		top the top
		30° 15° 0° 15° 30°
		90°
LED	XHP35 HD	73*
FWHM / FWTM	14.0° / 35.0°	
Efficiency	94 %	60° 60°
Peak intensity	7.6 cd/lm	220
LEDs/each optic	1	
Light colour	White	430 - 430 - 430
Required components:		$\times$
		6130
		$\times$ / $\vee$ $\times$
		30° 8000 30° 30°
CREE <del>÷</del>		
		90° 90°
LED	XHP35 HI	99* 99* 25
LED FWHM / FWTM	12.0° / 23.0°	2. 2. 8.
LED FWHM / FWTM Efficiency	12.0° / 23.0° 94 %	99° 99°
LED FWHM / FWTM Efficiency Peak intensity	12.0° / 23.0°	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 23.0° 94 % 16.1 cd/lm 1	600 00°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 23.0° 94 % 16.1 cd/lm	9 <sup>14</sup> 9 <sup>1</sup> 9 <sup>14</sup> 9 <sup>1</sup> 9 <sup>15</sup> 9 <sup>15</sup> 9 <sup>15</sup> 9 <sup>15</sup> 9 <sup>15</sup> 9 <sup>15</sup> 9 <sup>15</sup> 9 <sup>15</sup> 9 <sup>15</sup> 9 <sup>15</sup> 9 <sup></sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 23.0° 94 % 16.1 cd/lm 1	51 <sup>4</sup> 51 <sup>4</sup> 51 <sup>4</sup> 60 60 60 60 60 60 60 60 60 60 60 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 23.0° 94 % 16.1 cd/lm 1	55* 57 55* 57 66* 60° 60° 1800 1800
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 23.0° 94 % 16.1 cd/lm 1	55° 50° 55° 50° 60° 60° 60° 60° 60° 60° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 23.0° 94 % 16.1 cd/lm 1	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:	12.0° / 23.0° 94 % 16.1 cd/lm 1	50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 23.0° 94 % 16.1 cd/lm 1 White	55° 5° 55° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 23.0° 94 % 16.1 cd/lm 1 White	32     32       33     32       34     32       35     32       35     32       35     32
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM	12.0° / 23.0° 94 % 16.1 cd/lm 1 White XP-G3 12.0° / 24.0°	32     326     32       34     30     32       35     32     32       35     32     32
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency	12.0° / 23.0° 94 % 16.1 cd/lm 1 White XP-G3 12.0° / 24.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity	12.0° / 23.0° 94 % 16.1 cd/lm 1 White XP-G3 12.0° / 24.0° 92 % 14.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 23.0° 94 % 16.1 cd/lm 1 White XP-G3 12.0° / 24.0° 92 % 14.7 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° / 23.0° 94 % 16.1 cd/lm 1 White XP-G3 12.0° / 24.0° 92 % 14.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 23.0° 94 % 16.1 cd/lm 1 White XP-G3 12.0° / 24.0° 92 % 14.7 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° / 23.0° 94 % 16.1 cd/lm 1 White XP-G3 12.0° / 24.0° 92 % 14.7 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° / 23.0° 94 % 16.1 cd/lm 1 White XP-G3 12.0° / 24.0° 92 % 14.7 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° / 23.0° 94 % 16.1 cd/lm 1 White XP-G3 12.0° / 24.0° 92 % 14.7 cd/lm 1	



		50°
LED	ХР-Р	
FWHM / FWTM	6.0° / 14.0°	75'
Efficiency	94 %	
Peak intensity	53.2 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	97° 43°
Required components:		
		30° 5300
		15% 0% 35%
		90 <sup>4</sup> Å
LED	XQ-E HD	
FWHM / FWTM	6.9° / 14.5°	
Efficiency	94 %	60° 60°
Peak intensity	44.9 cd/lm	$[ X / / ] \land X ]$
LEDs/each optic	1	
Light colour	White	45° 45°
Required components:		
		30° 30°
		50° 50°
LED	LUXEON CZ	25° 25°
LED FWHM / FWTM	LUXEON CZ 6.0° / 13.0°	
LED FWHM / FWTM Efficiency	LUXEON CZ 6.0° / 13.0° 95 %	
LED FWHM / FWTM Efficiency Peak intensity	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1	664
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1	664
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1	664
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1	664
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1	66* 5500 7500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1 White	664
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1 White	664
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1 White S LUXEON HL1Z	66* 5500 7500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1 White S LUXEON HL1Z 8.0° / 16.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1 White S LUXEON HL1Z 8.0° / 16.0° 95 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1 White S LUXEON HL1Z 8.0° / 16.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1 White Vhite LUXEON HL1Z 8.0° / 16.0° 95 % 33.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1 White Vhite LUXEON HL1Z 8.0° / 16.0° 95 % 33.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1 White Vhite LUXEON HL1Z 8.0° / 16.0° 95 % 33.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1 White Vhite LUXEON HL1Z 8.0° / 16.0° 95 % 33.8 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>WIM / COMPARENT</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON CZ 6.0° / 13.0° 95 % 54.3 cd/lm 1 White Vhite LUXEON HL1Z 8.0° / 16.0° 95 % 33.8 cd/lm 1	



FWHM / FWTM   80 / 16.0°     Efficiency   95 %     Peak intensity   37.8 od/m     LEDBeach optic   1     Light colour   While     Required components:	M LUMILED	DS	90* 90*
Peak intensity 37.8 col/in LED steach optic 1 LED SST-10-UV-X130 FVHM / FVTM 8.0° / 16.0° EliDency 95 % EliDency 95 % EliDency 95 % EliDency VV-A Required components: ED NCSKE17A FVHM / FVTM 8.0° / 18.0° EliDency 95 % Peak intensity 30.3 col/in LED2/each optic 1 Light colour White Required components: ED NCSKE17A FVHM / FVTM 8.0° / 18.0° EliDency 95 % Poak intensity 30.3 col/in LED2/each optic 1 Light colour White Required components: ED NVSKE21A FVHM / FVTM 10.0° / 21.0° EliCinony 94 % Peak intensity 21.1 col/in LED2/each optic 1 Light colour White	LED FWHM / FWTM	LUXEON Z ES 8.0° / 16.0°	73
Light colour White Required components: LED SST-10-UV-X130 FWHM / FWTM 8.07 / 16.0° Efficiency 95 % LEDs/each optic 1 Light colour UV-A Required components: LED NCSxE17A FWHM / FWTM 8.07 / 18.0° Efficiency 95 % Peak intensity 20.3 ad/m LEDS/each optic 1 LED NCSxE17A FWHM / FWTM 8.07 / 18.0° Efficiency 95 % Peak intensity 20.3 ad/m LEDS/each optic 1 LED White Required components: FWHM / FWTM 10.0° / 21.0° Efficiency 94 % Peak intensity 21.1 cd/m LED NVSxE21A FWHM / FWTM 10.0° / 21.0° Efficiency 94 % Peak intensity 21.1 cd/m LEDS/each optic 1 LED NVSxE21A FWHM / FWTM 10.0° / 21.0° Efficiency 94 % Peak intensity 21.1 cd/m LEDS/each optic 1 LEDS/each optic 1	Peak intensity	37.8 cd/lm	ion contraction of the second se
Image: Control of the second secon	Light colour	White	gr (at
LED SST-10-UV-X130 FWHM / FWTM 8.0° / 16.0° Efficiency 95% LEDs/each optic 1 Light colour UV-A Required components:			20 <sup>10</sup> 20 <sup>10</sup> 21 <sup>10</sup> 20 <sup>10</sup>
FWHM / FWTM   8.0° / 16.0°     Efficiency   95 %     LEDs/each optic   1     Light colour   UV-A     Required components:		JS	90*90*
Efficiency 95 % LEDs/each optic 1 Light colour UV-A Required components:	LED	SST-10-UV-X130	75
LEDs/each optic 1 Light colour UV-A Required components:	FWHM / FWTM		60* 60* 60*
Light colour UV-A Required components:			$\mathbb{N}$
Required components:			
Image: Chick intensity   NCSxE17A     FWHM / FWTM   8.0° / 18.0°     Efficiency   95 %     Peak intensity   30.3 cd/lm     LEDs/each optic   1     Light colour   White     Required componentis:   Image: Chick intensity     Mite   Image: Chick intensity     Mite   Image: Chick intensity     Required componentis:   Image: Chick intensity     Image: Chick intensity   10.0° / 21.0°     Efficiency   94 %     Peak intensity   21.1 cd/lm     LEDs/each optic   1     Light colour   White		UV-A	
Image: constraint of the second se	rtequirea componenta.		
Image: constraint of the second se			
Image: Constraint of the second se			30. 34
LED   NCSxE17A     FWHM / FWTM   8.0° / 18.0°     Efficiency   95 %     Peak intensity   30.3 cd/lm     LEDs/each optic   1     Light colour   White     Required components:   Vinite     VICCHIN   10.0° / 21.0°     Efficiency   94 %     Peak intensity   21.1 cd/lm     LEDs/each optic   1     Light colour   white			159 000 259
FWHM / FWTM   8.0° / 18.0°     Efficiency   95 %     Peak intensity   30.3 cd/lm     LEDs/each optic   1     Light colour   White     Required components:   Visit     FWHM / FWTM   10.0° / 21.0°     Efficiency   94 %     Peak intensity   21.1 cd/lm     LEDs/each optic   1			
Efficiency 95 % Peak intensity 30.3 cd/lm LEDs/each optic 1 Light colour White Required components:			90* 90'
Peak intensity   30.3 cd/lm     LEDs/each optic   1     Light colour   White     Required components:   Image: Component State	LED		77
LEDs/each optic   1     Light colour   White     Required components:   Image: Component State     Image: Component State   Image: Component State	LED FWHM / FWTM	8.0° / 18.0°	35 <sup>-</sup>
Light colour   White     Required components:   Image: Component State Stat	LED FWHM / FWTM Efficiency	8.0° / 18.0° 95 %	91 <sup>-</sup> 100 13 <sup>-</sup> 100 13 <sup>-</sup> 20 100 100 100 100 100
IED   NVSxE21A     FWHM / FWTM   10.0° / 21.0°     Efficiency   94 %     Peak intensity   21.1 cd/lm     LEDs/each optic   1     Light colour   White	LED FWHM / FWTM Efficiency Peak intensity	8.0° / 18.0° 95 % 30.3 cd/lm	25 00 00 25 00 26 00 200 00 00 00 00 00 00 00 00 00 00 00 00 0
Image: state of the state o	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	8.0° / 18.0° 95 % 30.3 cd/lm 1	
Image: state of the state o	LED FWHM / FWTM Efficiency Peak intensity	8.0° / 18.0° 95 % 30.3 cd/lm 1	
LED NVSxE21A   FWHM / FWTM 10.0° / 21.0°   Efficiency 94 %   Peak intensity 21.1 cd/lm   LEDs/each optic 1   Light colour White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	8.0° / 18.0° 95 % 30.3 cd/lm 1	
FWHM / FWTM 10.0° / 21.0°   Efficiency 94 %   Peak intensity 21.1 cd/lm   LEDs/each optic 1   Light colour White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	8.0° / 18.0° 95 % 30.3 cd/lm 1	20 <sup>10</sup> 20
Efficiency 94 % Peak intensity 21.1 cd/lm LEDs/each optic 1 Light colour White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	8.0° / 18.0° 95 % 30.3 cd/lm 1	25°
Peak intensity 21.1 cd/lm   LEDs/each optic 1   Light colour White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	8.0° / 18.0° 95 % 30.3 cd/lm 1 White	25
LEDs/each optic 1 Light colour White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	8.0° / 18.0° 95 % 30.3 cd/lm 1 White NVSxE21A 10.0° / 21.0°	25°
Light colour White	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	8.0° / 18.0° 95 % 30.3 cd/lm 1 White NVSxE21A 10.0° / 21.0° 94 %	25°
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	8.0° / 18.0° 95 % 30.3 cd/lm 1 White NVSxE21A 10.0° / 21.0° 94 % 21.1 cd/lm	25
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>EXAMPLANCE</b> <b>EXAMPLANCE</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic	8.0° / 18.0° 95 % 30.3 cd/lm 1 White NVSxE21A 10.0° / 21.0° 94 % 21.1 cd/lm 1	25
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	8.0° / 18.0° 95 % 30.3 cd/lm 1 White NVSxE21A 10.0° / 21.0° 94 % 21.1 cd/lm 1	25°
	LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>EXAMPLANCE</b> <b>EXAMPLANCE</b> FWHM / FWTM Efficiency Peak intensity LEDs/each optic	8.0° / 18.0° 95 % 30.3 cd/lm 1 White NVSxE21A 10.0° / 21.0° 94 % 21.1 cd/lm 1	25



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OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Black 9.5° / 20.0° 97 % 23 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
OSRAM		90° 90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Black Flat (LUW HWQP) 6.8° / 14.0° 94 % 48.3 cd/lm 1 White	77
OSRAM		20 <sup>10</sup> 0 <sup>10</sup> 25 <sup>10</sup> 20 <sup>10</sup>
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON SSL 150 8.0° / 16.0° 95 % 37.9 cd/lm 1 White	9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9° 9
OSRAM Opto Semiconductors LED FWHM / FWTM	OSLON SSL 80 8.0° / 16.0°	90* 90* 25*



OSRAM		50° 50°
Opto Semiconductors	SFH 4715S	
FWHM / FWTM	9.0° / 18.0°	75'
Efficiency	95 %	
Peak intensity	29.2 cd/lm	601 / / /
LEDs/each optic	1	
Light colour	IR	ga
Required components:		12200
		30* 30*
		13° 31880 15°
OSRAM Opto Semiconductors		
LED	SFH 4770S	
FWHM / FWTM	10.0° / 23.0°	
Efficiency	94 %	
LEDs/each optic	1	
Light colour	White	
Required components:		
SAMSUN	IG	90* 90*
	LH351B	73* 751
FWHM / FWTM	12.0° / 24.0°	
Efficiency	95 % 15.6 cd/lm	632 632
Peak intensity LEDs/each optic	13.6 cu/im 1	$\times$ / $\square$ $\times$
Light colour	' White	900 PT
Required components:	White	
		12800
		$\times$ / $\vee$ $\times$
		30* 30*
0.0.0.0.0.0.0	10	
SAMSUN		90* 90* 90*
LED	LH351Z	75
FWHM / FWTM	10.0° / 18.0°	
Efficiency	93 %	60*
Peak intensity	25 cd/lm	
LEDs/each optic	1	
Light colour	White	93 <sup>4</sup> 83 <sup>4</sup>
Required components:		12000
		V
		30° 22600 30° 30°



#### **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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#### 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

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