

# PRODUCT DATASHEET CP12943\_LARISA-O-CLIP16

## LARISA-O-CLIP16

~40° x 20° oval beam. Clip fastening for 1.6 mm thick PCB.

## **TECHNICAL SPECIFICATIONS:**

Dimensions	9.9 x 9.9 mm
Height	7.5 mm
Fastening	clips
ROHS compliant	yes 🛈



## **MATERIAL SPECIFICATIONS:**

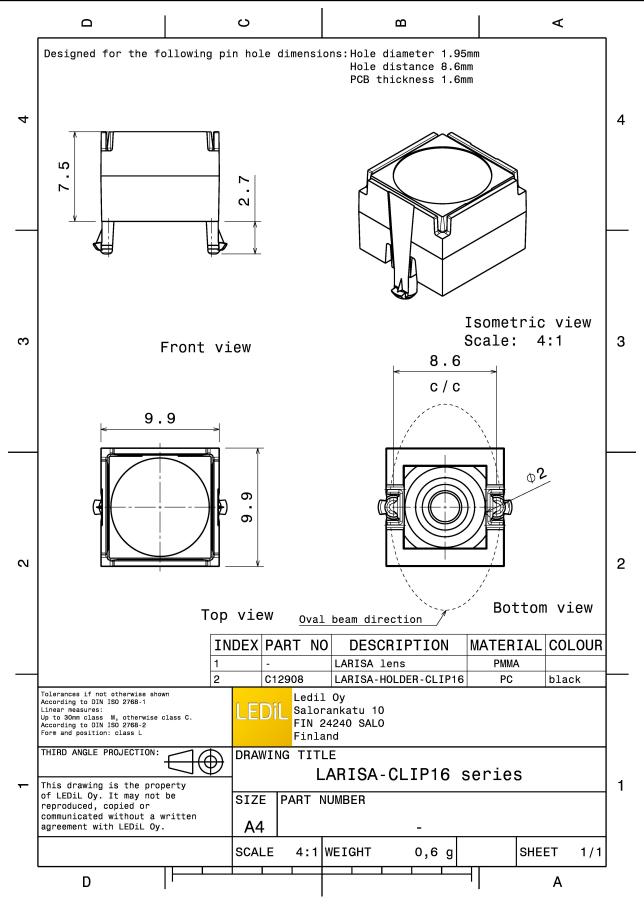
Component	Туре	Material	Colour	Finish
LARISA-O	Single lens	PMMA	clear	
LARISA-HOLDER-CLIP16	Holder	PC	black	

## **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP12943_LARISA-O-CLIP16	Single lens	10000	300	100	6.6
» Box size: 300 x 250 x 250 mm					

PRODUCT DATASHEET CP12943\_LARISA-O-CLIP16





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



-				
	D		90°	90*
LED	XB-D White			
FWHM / FWTM	39.0 + 21.0° / 73.0 + 49.0°		75*	
Efficiency	80 %			
Peak intensity	2.2 cd/lm			
LEDs/each optic	1			
Light colour	White		45%	434
Required compone	ents:	I		1630
			30° 157	30.
	ס		90°	2400 35
LED	XD16			$\wedge$
FWHM / FWTM	40.0 + 20.0° / 72.0 + 51.0°		75*	
Efficiency	75 %			
Peak intensity	2.1 cd/lm		60°	800
LEDs/each optic	1			
Light colour	White		950	45
Required compone				
				1500
			40	
			15%	0° 15°
			2	
	D		90*	90'
	XP-G		30,	
			- 50°* - 73°-	
LED	XP-G		95* 25*	90 90 90
LED FWHM / FWTM Efficiency Peak intensity	XP-G 39.0 + 25.0° / 76.0 + 51.0°		90* 75* 60*	90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1		90* 75* 50*	00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White		90* 75* 65*	90 90 90 90 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White		90* 73* 90*	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White		55°	900 900 1620
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White		90* 75* 59*	50 50 160
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White		90* 75* 95* 95* 36* 137	90 900 900 900 900 900 900 900 900 900
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White ents:		90° 75 95 95 95 95 95 95 95 95	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White ents:		NO.	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White ents:		99 <sup>+</sup> 75 99 <sup>+</sup> 99 <sup>+</sup> 99 <sup>+</sup> 15 <sup>-</sup>	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White ents:		NO.	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White ents: XQ-E HD 40.0 + 17.0° / 68.0 + 42.0°		NO.	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White ents: XQ-E HD 40.0 + 17.0° / 68.0 + 42.0° 82 %		NO.	000 000 000 000 000 000 000 000 000 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Equired compone Equired compone	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White ents: XQ-E HD 40.0 + 17.0° / 68.0 + 42.0° 82 % 2.8 cd/lm		NO.	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White ents: XQ-E HD 40.0 + 17.0° / 68.0 + 42.0° 82 % 2.8 cd/lm 1 White		NO.	000 000 000 000 000 000 000 000 000 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic Light colour	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White ents: XQ-E HD 40.0 + 17.0° / 68.0 + 42.0° 82 % 2.8 cd/lm 1 White		NO.	000 000 000 000 000 000 000 000 000 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White ents: XQ-E HD 40.0 + 17.0° / 68.0 + 42.0° 82 % 2.8 cd/lm 1 White		NO.	000 000 000 000 000 000 000 000 000 00
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 39.0 + 25.0° / 76.0 + 51.0° 83 % 2.1 cd/lm 1 White ents: XQ-E HD 40.0 + 17.0° / 68.0 + 42.0° 82 % 2.8 cd/lm 1 White		NO.	000 000 000 000 000 000 000 000 000 00



	-	
LED	XQ-E HI	
FWHM / FWTM	43.0 + 14.0° / 64.0 + 36.0°	
Efficiency	74 %	
Peak intensity	3.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
	EDS	
		<u>84</u>
LED	LUXEON A	75
FWHM / FWTM	39.0 + 26.0° / 78.0 + 55.0°	
Efficiency	81 %	50°
Peak intensity	1.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		1630
		300 2000
	.EDS	
LED	LUXEON C	
FWHM / FWTM	40.0 + 18.0° / 69.0 + 43.0°	
Efficiency	79 %	
Peak intensity	2.6 cd/lm	
LEDs/each optic	1	
Light colour	White	9 <sup>1</sup>
Required compone		
		200° 125' 0 <sup>1</sup>
	EDS	•••
LED	LUXEON Rebel	
FWHM / FWTM	40.0 + 18.0° / 70.0 + 42.0°	
Efficiency	84 %	
Peak intensity	2.7 cd/lm	
LEDs/each optic	1	
		97 4 1630
Light colour	White	9 100
	White	<b>97 1</b> 60
Light colour	White	9 <sup>4</sup> 560
Light colour	White	<b>9</b> <sup>4</sup> 560



FWHM / FWTM 33   Efficiency 82   Peak intensity 1.   LEDs/each optic 1   Light colour W   Required components: W   Efficiency 83   Peak intensity 1.   LED LU   FWHM / FWTM 40   Efficiency 83   Peak intensity 2.   LEDs/each optic 1   Light colour W   Required components: W   Required components: W   EED LU   FWHM / FWTM 40   Efficiency 83   Peak intensity 2.   LED LU   FWHM / FWTM 40   Efficiency 87   Peak intensity 3.   LEDs/each optic 1	XEON Rebel ES .0 + 25.0° / 77.0 + 54.0° % 9 cd/lm hite DS XEON Rebel Plus .0 + 19.0° / 69.0 + 46.0° % 6 cd/lm hite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
FWHM / FWTM 38   Efficiency 82   Peak intensity 1.   LEDs/each optic 1   Light colour W   Required components: W   EED LU   FWHM / FWTM 40   Efficiency 83   Peak intensity 2.   LEDs/each optic 1   Light colour W   Required components: W   Required components: W   EED LU   EWHM / FWTM 40   Efficiency 83   Peak intensity 2.   LED LU   FWHM / FWTM 40   Efficiency 83   Peak intensity 47   Efficiency 87   Peak intensity 3.   LEDs/each optic 1	.0 + 25.0° / 77.0 + 54.0° % 9 cd/lm nite DS XEON Rebel Plus .0 + 19.0° / 69.0 + 46.0° % 6 cd/lm nite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
Efficiency 82 Peak intensity 1. LEDs/each optic 1 Light colour W Required components: <b>EDS LUMILE</b> LED LU FWHM / FWTM 40 Efficiency 83 Peak intensity 2. LEDs/each optic 1 Light colour W Required components:	% 9 cd/lm hite DS XEON Rebel Plus .0 + 19.0° / 69.0 + 46.0° % 6 cd/lm hite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
Peak intensity 1. LEDs/each optic 1 Light colour W Required components <b>CONTINUE</b> LED LU FWHM / FWTM 40 Efficiency 83 Peak intensity 2. LEDs/each optic 1 Light colour W Required components <b>CONTINUE</b> LED LU FWHM / FWTM 44 Efficiency 87 Peak intensity 3. LEDs/each optic 1	e cd/lm hite DS XEON Rebel Plus .0 + 19.0° / 69.0 + 46.0° % 3 cd/lm hite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
LEDs/each optic 1 Light colour W Required components LED LU FWHM / FWTM 40 Efficiency 80 Peak intensity 2. LEDs/each optic 1 Light colour W Required components EDS/each optic 1 LED LU FWHM / FWTM 40 Efficiency 80 FWHM / FWTM 40 Efficiency 81 Peak intensity 3. LEDs/each optic 1	hite DS XEON Rebel Plus .0 + 19.0° / 69.0 + 46.0° % 3 cd/lm hite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
Light colour W Required components: LED LU FWHM / FWTM 40 Efficiency 80 Peak intensity 2. LEDs/each optic 1 Light colour W Required components: LED LL FWHM / FWTM 40 FWHM / FWTM 40 Efficiency 81 Peak intensity 3. LEDs/each optic 1	DS XEON Rebel Plus .0 + 19.0° / 69.0 + 46.0° % 3 cd/lm hite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
Required components: LED LU FWHM / FWTM 40 Efficiency 80 Peak intensity 2. LEDs/each optic 1 Light colour W Required components: EED LU FWHM / FWTM 47 Efficiency 87 Peak intensity 3. LEDs/each optic 1	DS XEON Rebel Plus .0 + 19.0° / 69.0 + 46.0° % 3 cd/lm hite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
Image: Constraint of the second se	XEON Rebel Plus .0 + 19.0° / 69.0 + 46.0° % 5 cd/lm hite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
LED LU FWHM / FWTM 40 Efficiency 83 Peak intensity 2. LEDs/each optic 1 Light colour W Required components:	XEON Rebel Plus .0 + 19.0° / 69.0 + 46.0° % 5 cd/lm hite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
LED LU FWHM / FWTM 40 Efficiency 83 Peak intensity 2. LEDs/each optic 1 Light colour W Required components:	XEON Rebel Plus .0 + 19.0° / 69.0 + 46.0° % 5 cd/lm hite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
FWHM / FWTM 40 Efficiency 83 Peak intensity 2. LEDs/each optic 1 Light colour W Required components EDS/EACH 41 FWHM / FWTM 41 Efficiency 81 Peak intensity 3. LEDS/each optic 1	.0 + 19.0° / 69.0 + 46.0° % 5 cd/lm nite <b>DS</b> XEON Z .0 + 14.0° / 62.0 + 360.0°	
Efficiency 83 Peak intensity 2. LEDs/each optic 1 Light colour W Required components: EED LU FWHM / FWTM 47 Efficiency 87 Peak intensity 3. LEDs/each optic 1	% 5 cd/lm nite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
Peak intensity 2. LEDs/each optic 1 Light colour W Required components LED LU FWHM / FWTM 4 Efficiency 8 Peak intensity 3. LEDs/each optic 1	s cd/lm nite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
LEDs/each optic 1 Light colour W Required components: LED LU FWHM / FWTM 4' Efficiency 8' Peak intensity 3. LEDs/each optic 1	nite DS XEON Z .0 + 14.0° / 62.0 + 360.0°	
Light colour W Required components EDELEDELE FWHM / FWTM 4 Efficiency 8 Peak intensity 3. LEDS/each optic 1	<b>DS</b> XEON Z .0 + 14.0° / 62.0 + 360.0°	gr 100 300 300 200 200 200 200 200 200 200 2
Required components:	<b>DS</b> XEON Z .0 + 14.0° / 62.0 + 360.0°	2033 30 <sup>4</sup> 35 <sup>7</sup> 0 <sup>4</sup> 35 <sup>9</sup>
ED LU   FWHM / FWTM 4"   Efficiency 8"   Peak intensity 3.   LEDs/each optic 1	XEON Z .0 + 14.0° / 62.0 + 360.0°	20° 0° 12° 30
LED LU FWHM / FWTM 4 Efficiency 8 Peak intensity 3. LEDs/each optic 1	XEON Z .0 + 14.0° / 62.0 + 360.0°	
FWHM / FWTM47Efficiency87Peak intensity3.LEDs/each optic1	.0 + 14.0° / 62.0 + 360.0°	
Efficiency8'Peak intensity3.LEDs/each optic1		
Peak intensity 3. LEDs/each optic 1	o/	
LEDs/each optic 1	%	
	5 cd/lm	
Light colour M		
0	nite	
Required components:		_
		90*
		90 <sup>+</sup>
	XEON Z ES	75
	.0 + 18.0° / 68.0 + 44.0°	
	%	60s 60s 6
	3 cd/Im	
LEDs/each optic 1		
Light colour W Required components:	nite	e"



<b>ØNICHI</b>		30*
LED	NCSxx19A	
FWHM / FWTM	41.0 + 19.0° / 71.0 + 50.0°	
Efficiency	81 %	
Peak intensity	2.3 cd/lm	
LEDs/each optic	1	
Light colour	White	gr.
Required compone	nts:	
		305 330 40
		25, 6, 15,
LED	NVSxx19A	75
FWHM / FWTM	40.0 + 24.0° / 77.0 + 57.0°	
Efficiency	79 %	
Peak intensity	1.9 cd/lm	
LEDs/each optic	1 White	
Light colour Required compone		
Required compone	1115.	
		30°
OSRAM Opto Semiconductors		30'
LED	Duris S5 (2 chip)	
FWHM / FWTM	26.0 + 41.0° / 63.0 + 77.0°	75
Efficiency	79 %	
	1.8 cd/lm	
Peak intensity	1.8 cd/lm 1	
		gr 0.0
Peak intensity LEDs/each optic	1 White	g
Peak intensity LEDs/each optic Light colour	1 White	5 <sup>0</sup>
Peak intensity LEDs/each optic Light colour	1 White	90 00 00 00 00 00 00 00 00 00 00 00 00 0
Peak intensity LEDs/each optic Light colour	1 White	97
Peak intensity LEDs/each optic Light colour Required compone	1 White	
Peak intensity LEDs/each optic Light colour Required compone	1 White nts:	
Peak intensity LEDs/each optic Light colour Required compone	1 White nts: OSLON SSL 150	
Peak intensity LEDs/each optic Light colour Required compone	1 White nts: OSLON SSL 150 39.0 + 19.0° / 70.0 + 40.0°	
Peak intensity LEDs/each optic Light colour Required compone	1 White nts: OSLON SSL 150 39.0 + 19.0° / 70.0 + 40.0° 84 %	
Peak intensity LEDs/each optic Light colour Required compone Option Semiconductors LED FWHM / FWTM Efficiency Peak intensity	1 White nts: OSLON SSL 150 39.0 + 19.0° / 70.0 + 40.0° 84 % 2.9 cd/lm	
Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White nts: OSLON SSL 150 39.0 + 19.0° / 70.0 + 40.0° 84 % 2.9 cd/lm 1	
Peak intensity LEDs/each optic Light colour Required compone Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White nts: OSLON SSL 150 39.0 + 19.0° / 70.0 + 40.0° 84 % 2.9 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	1 White nts: OSLON SSL 150 39.0 + 19.0° / 70.0 + 40.0° 84 % 2.9 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White nts: OSLON SSL 150 39.0 + 19.0° / 70.0 + 40.0° 84 % 2.9 cd/lm 1 White	
Peak intensity LEDs/each optic Light colour Required compone Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	1 White nts: OSLON SSL 150 39.0 + 19.0° / 70.0 + 40.0° 84 % 2.9 cd/lm 1 White	

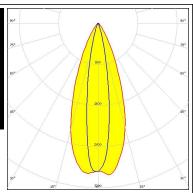


#### OSRAM Opto Semiconductors

LEDOFWHM / FWTM40Efficiency77Peak intensity2.4LEDs/each optic1Light colourWRequired components:

OSLON SSL 80 40.0 + 17.0° / 70.0 + 48.0° 77 % 2.5 cd/lm 1 White







## PHOTOMETRIC DATA (SIMULATED):

		59 <sup>3</sup>
LED FWHM / FWTM	XP-E 39.0 + 17.0°	
Efficiency	89 %	
LEDs/each optic	1	
Light colour	White	97
Required component	S:	



## PRODUCT DATASHEET CP12943 LARISA-O-CLIP16

### **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.

LEDiL Oy assumes neither warranty, nor guarantee nor any other liability of any kind for the contents and correctness of the provided data. The provided data has been generated with highest diligence but the provided data may in reality not represent the complete possible variation range of all intrinsic parameters. Therefore, in certain cases a deviation from the provided data could occur.

LEDiL Oy reserves the right to undertake technical changes of its products without further notification which could lead to changes in the provided data. LEDiL Oy assumes no liability of any kind for the possible deviation from any provided data or any other damage resulting from the usage of the provided data.

The user agrees to this disclaimer and user agreement with the download or usage of the provided files.

### 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

### Local sales and technical support www.ledil.com/ where\_to\_buy

Shipping locations Salo, Finland Hong Kong, China

### Distribution Partners www.ledil.com/ where\_to\_buy