

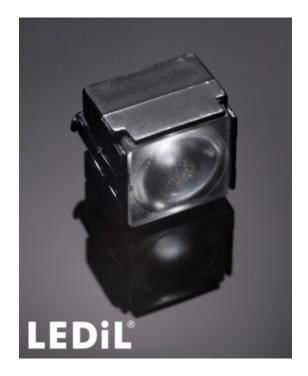
PRODUCT DATASHEET CP12941_LARISA-M-CLIP16

LARISA-M-CLIP16

 ${\sim}30^\circ$ medium 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 🛈



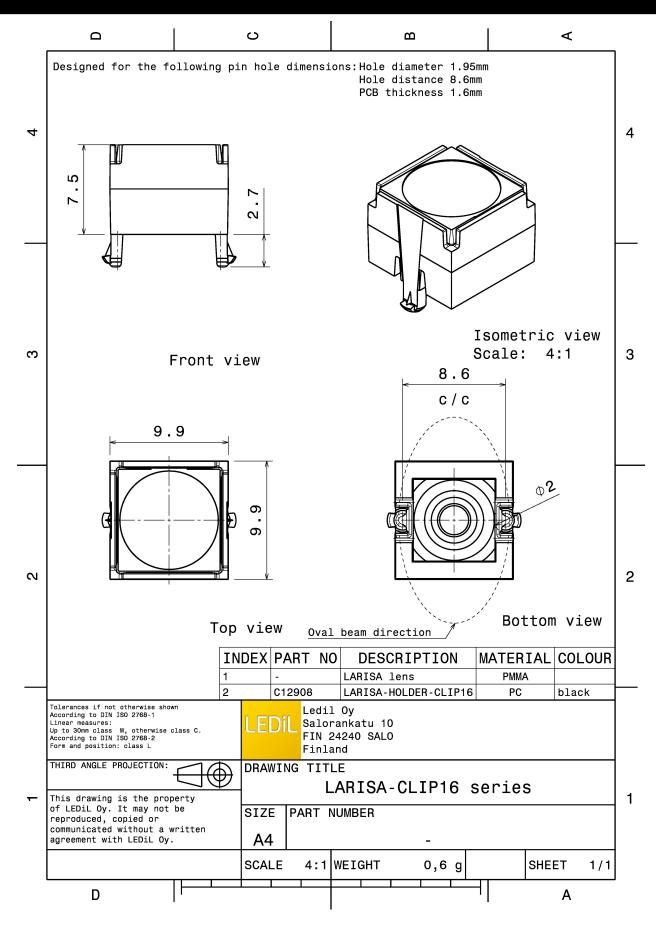
MATERIAL SPECIFICATIONS:

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

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CP12941_LARISA-M-CLIP16	Single lens	10000	300	100	6.6
» Box size: 300 x 250 x 250 mm					

PRODUCT DATASHEET CP12941_LARISA-M-CLIP16



(R)

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

2/9



CREE \$			90* 90*
LED	XB-D		
FWHM / FWTM	30.0° / 58.0°		73.
Efficiency	84 %		
Peak intensity	2.3 cd/lm		60° - 00°
LEDs/each optic	1		
Light colour	White		42, 42,
Required componer			1630
Required componer	15.		
			36° 2450 36° 35°
CREE ≑			
LED	XD16		75.
FWHM / FWTM	27.0° / 57.0°		
Efficiency	74 %		60° 60°
Peak intensity	2.2 cd/lm		
LEDs/each optic	1		
Light colour	White		\$7°
Required componer	ts:		
			35° 35° 960 15° 36°
			10/ 2000 10
CDEE A			
CREE \$			50°
LED	XP-G	and the second se	32 104 104 104 104 104 104
LED FWHM / FWTM	XP-G 36.0° / 64.0°		55. 59. 59.
LED FWHM / FWTM Efficiency	XP-G 36.0° / 64.0° 88 %		50 ⁴ 50 ⁴ 60 ⁵ 60
LED FWHM / FWTM Efficiency Peak intensity	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm		90° 90° 90° 90° 90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1		50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White		91 ⁴ 92 ⁴ 61 ⁴ 80 61 ⁴ 80 61 ⁴ 80 61 ⁴ 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White		91 ⁴ 91
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White		91 ⁴ 91 ⁴ 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White		30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White ts:		300 30 ⁴ 10 30 ⁹ 30 30 ⁹ 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White ts:		300
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White ts: XQ-E HD		1600 30 ⁴ 250 90 ⁴ 200 90 ⁴ 90 90 ⁴ 90
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White ts: XQ-E HD 25.0° / 53.0°		30 ⁴ 150 30 ⁴ 250 30 ⁴
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White ts: XQ-E HD 25.0° / 53.0° 86 %		500 30 ⁴ 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer ECREE LED FWHM / FWTM Efficiency Peak intensity	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White ts: XQ-E HD 25.0° / 53.0° 86 % 3 cd/lm		500 30 ⁴ 50 50 6 ⁴ 30 50 50 50 50 50 50 50 50 50 50 50 50 50
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer ECREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White ts: XQ-E HD 25.0° / 53.0° 86 % 3 cd/lm 1		500 30 ⁺ 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer EED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White ts: XQ-E HD 25.0° / 53.0° 86 % 3 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer Required componer ELED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White ts: XQ-E HD 25.0° / 53.0° 86 % 3 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREEE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White ts: XQ-E HD 25.0° / 53.0° 86 % 3 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREEE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White ts: XQ-E HD 25.0° / 53.0° 86 % 3 cd/lm 1 White		
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required componer CREEE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G 36.0° / 64.0° 88 % 1.9 cd/lm 1 White ts: XQ-E HD 25.0° / 53.0° 86 % 3 cd/lm 1 White		



CREE -			50°	90°
LED	XQ-E HI			
FWHM / FWTM	19.0° / 45.0°		23* 000	75*
Efficiency	79 %			
Peak intensity	3.6 cd/lm		60 ^t	60*
LEDs/each optic	1 White		2000	45*
Light colour Required compone				
Required compone	ents:		200	
			30° 15° 0° 15°	36.
	EDS		30*	90°
LED	LUXEON A			
EED FWHM / FWTM	37.0° / 67.0°		75	75*
Efficiency	86 %			
Peak intensity	1.7 cd/lm		601	60*
LEDs/each optic	1			
Light colour	White		er	
Required compone				
Required compone	HIIS.			
			2650	
			36 ⁶ 15 ⁹ 0 ⁶ 25 ⁹	36*
	.EDS		50*	90°
LED	LUXEON C			
LED FWHM / FWTM	LUXEON C 27.0° / 52.0°		7	
FWHM / FWTM	LUXEON C 27.0° / 52.0° 85 %		35	
FWHM / FWTM Efficiency	27.0° / 52.0° 85 %			- 75" - 60°
FWHM / FWTM Efficiency Peak intensity	27.0° / 52.0°		64 60 CO	60,
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	27.0° / 52.0° 85 % 2.9 cd/lm			60°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 52.0° 85 % 2.9 cd/lm 1 White		64 60 CO	25°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic	27.0° / 52.0° 85 % 2.9 cd/lm 1 White		64 60 CO	60°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 52.0° 85 % 2.9 cd/lm 1 White		00 00 00 00 00 00 00	60°
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 52.0° 85 % 2.9 cd/lm 1 White		00 00 00 00 00 00 00	60'
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	27.0° / 52.0° 85 % 2.9 cd/lm 1 White ents:		00 00 00 00 00 00 00	6,
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 52.0° 85 % 2.9 cd/lm 1 White ents:		00 00 00 00 00 00 00	67
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	27.0° / 52.0° 85 % 2.9 cd/lm 1 White ents:			6,
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	27.0° / 52.0° 85 % 2.9 cd/lm 1 White ents:			99 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	27.0° / 52.0° 85 % 2.9 cd/lm 1 White ents: EDS LUXEON Rebel			99 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	27.0° / 52.0° 85 % 2.9 cd/lm 1 White ents: EDS LUXEON Rebel 26.0° / 53.0°			90 ⁴ 97 90 ⁴ 90 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	27.0° / 52.0° 85 % 2.9 cd/lm 1 White ents: EDS LUXEON Rebel 26.0° / 53.0° 88 %			60 [°]
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition Composition Composition	27.0° / 52.0° 85 % 2.9 cd/lm 1 White ents: EDS LUXEON Rebel 26.0° / 53.0° 88 % 3 cd/lm			60 [°]
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition Efficiency Peak intensity LEDs/each optic	27.0° / 52.0° 85 % 2.9 cd/lm 1 White ents: EDS LUXEON Rebel 26.0° / 53.0° 88 % 3 cd/lm 1 White			60 [°]
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 52.0° 85 % 2.9 cd/lm 1 White ents: EDS LUXEON Rebel 26.0° / 53.0° 88 % 3 cd/lm 1 White			90 ⁴ 97 90 ⁴ 90 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 52.0° 85 % 2.9 cd/lm 1 White ents: EDS LUXEON Rebel 26.0° / 53.0° 88 % 3 cd/lm 1 White			90 ⁴ 97 90 ⁴ 90 ⁴
FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Composition Required compone Composition LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	27.0° / 52.0° 85 % 2.9 cd/lm 1 White ents: EDS LUXEON Rebel 26.0° / 53.0° 88 % 3 cd/lm 1 White			25 ⁻ 60 ⁻ 90 ⁻ 75 ⁻ 80 ⁻ 8



	.EDS	
LED	LUXEON Rebel ES	
FWHM / FWTM	35.0° / 64.0°	
Efficiency	87 %	
Peak intensity	1.9 cd/lm	94
LEDs/each optic	1	
Light colour	White	
Required compone		
rioquirou compone		
		34" 300 31
	EDS	<u>235¹</u> Ø [*] <u>35²</u>
LED	LUXEON Z	
LED FWHM / FWTM		
	19.0° / 42.0° 84 %	
Efficiency Peak intensity	84 % 5 cd/lm	
	5 ca/im 1	
LEDs/each optic Light colour	1 White	
Required compone		
Required compone		
-		
LUMIL	LUXEON Z ES	
LED FWHM / FWTM		
LED FWHM / FWTM Efficiency	LUXEON Z ES 24.0° / 50.0°	
LED FWHM / FWTM	LUXEON Z ES 24.0° / 50.0° 88 %	72
LED FWHM / FWTM Efficiency Peak intensity	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White ents:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White ents: NCSxx19A 27.0° / 57.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHI/ LED FWHM / FWTM Efficiency Peak intensity	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White ents: NCSxx19A 27.0° / 57.0° 84 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHI/ LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White ents: NCSxx19A 27.0° / 57.0° 84 % 2.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White ents: NCSxx19A 27.0° / 57.0° 84 % 2.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHI/ LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White ents: NCSxx19A 27.0° / 57.0° 84 % 2.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone WICHI/ LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White ents: NCSxx19A 27.0° / 57.0° 84 % 2.5 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone MICHI/ LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON Z ES 24.0° / 50.0° 88 % 3.3 cd/lm 1 White ents: NCSxx19A 27.0° / 57.0° 84 % 2.5 cd/lm 1 White	



ØNICHI/		894 894
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19A 34.0° / 65.0° 84 % 1.9 cd/Im 1 White	24, 12, 150 15, 24, 24, 24, 24, 24, 24, 24, 24, 24, 24
OSRAM Opto Semiconductors		304 30
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Duris S5 (2 chip) 34.0° / 66.0° 80 % 1.9 cd/lm 1 White ents:	
OSRAM Opto Semiconductors		80° 80°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSLON Square EC 31.0° / 63.0° 83 % 2 cd/lm 1 White ents:	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	OSLON SSL 150 30.0° / 54.0° 88 % 2.6 cd/lm 1 White ents:	



OSRAM Opto Semiconductors		90*	90°
LED	OSLON SSL 80	75	75
FWHM / FWTM	25.0° / 56.0°		$\langle n \rangle$
Efficiency	82 %	60*	60°
Peak intensity	2.9 cd/lm	$\langle \ \land \ \land \ \mid$	$\sum 7$
LEDs/each optic	1	1630	$ \land X $
Light colour	White	47×	45+
Required compone	nts:	9 ⁶⁴ 15 ⁵ 0 ⁶	15" 30"



PHOTOMETRIC DATA (SIMULATED):

			59° 59°
LED FWHM / FWTM	XP-E 23.0°		
Efficiency	94 %		64 64 64 F
LEDs/each optic Light colour	1 White		er er
Required components			229
			20- 125 ⁻ 20- 12 ⁻ 12 ⁻



PRODUCT DATASHEET CP12941_LARISA-M-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