

# PRODUCT DATASHEET FP16610\_LISA3CSP-WW-PIN

# LISA3CSP-WW-PIN

~45° wide beam

## **TECHNICAL SPECIFICATIONS:**

Dimensions	Ø 10.0 mm
Height	7.2 mm
Fastening	pin
ROHS compliant	yes 🛈



## **MATERIAL SPECIFICATIONS:**

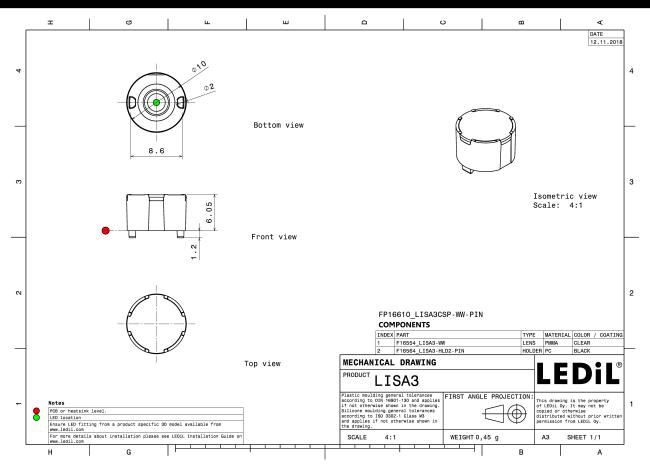
Component	Туре	Material	Colour	Finish
LISA3-WW	Single lens	PMMA	clear	
LISA3-HLD2-PIN	Holder	PC	black	

#### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FP16610_LISA3CSP-WW-PIN	Single lens	2000	300	100	1.4
» Box size: 310 x 230 x 60 mm					

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



## **PHOTOMETRIC DATA (MEASURED):**

<b>S</b> ΛΜS	JNG		94 <sup>4</sup>
LED	LH151B		75
FWHM / FWTM	46.0° / 75.0°		
Efficiency	89 %		60 <sup>5</sup> 60°
Peak intensity	1.4 cd/lm		
LEDs/each optic	1		
Light colour	White		er er
Required compone	nts:		
			120
			304 31,4
			15° 0° 15°



## PHOTOMETRIC DATA (SIMULATED):

UMILEC	DS	90* 9
LED	LUXEON CSP HL1	75
FWHM / FWTM	42.0 + 44.0° / 70.0°	400
Efficiency	95 %	600
Peak intensity	1.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		1220
		30° 25°
<b>Μ</b> ΝΙCΗΙΛ		90*
LED	NCSxE17A	
FWHM / FWTM	46.0° / 74.0°	75
Efficiency	88 %	400
Peak intensity	1.4 cd/lm	
LEDs/each optic	1	
Light colour	White	97
Required components:		
		1230
		36° 1600 3
<b>Μ</b> ΝΙCΗΙΛ		15% 0 <sup>6</sup> 35 <sup>5</sup>
		90* 91
LED	NFSWE11A	75*
FWHM / FWTM	48.0° / 75.0°	
Efficiency	85 %	60 <sup>5</sup>
Peak intensity	1.3 cd/lm	$  \times //   \wedge \times$
LEDs/each optic	1	
Light colour		a54
	White	454 454
Required components:	White	St
	White	S <sup>4</sup> 00
	White	St
	White	20° 00 12° 12°
Required components:	White	
Required components:		
Required components:	White NVSxE21A 44.0° / 75.0°	31° 30° 32°   31° 32° 32°
Required components:	NVSxE21A	
Required components:	NVSxE21A 44.0° / 75.0°	31 30 30 30   32 30 30 30
Required components:	NVSxE21A 44.0° / 75.0° 89 %	60°
Required components:	NVSxE21A 44.0° / 75.0° 89 % 1.5 cd/m	
Required components:	NVSxE21A 44.0° / 75.0° 89 % 1.5 cd/m 1	60
Required components:	NVSxE21A 44.0° / 75.0° 89 % 1.5 cd/m 1	60
Required components:	NVSxE21A 44.0° / 75.0° 89 % 1.5 cd/m 1	60

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## PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors		50°
LED	OSCONIQ C 2424	
FWHM / FWTM	56.0° / 84.0°	25*
Efficiency	91 %	
Peak intensity	1.1 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	' White	97°
Required components:		
		30°
SAMSUN	IG	90° 90°
LED	LH181B	
FWHM / FWTM	48.0° / 79.0°	75*
Efficiency	90 %	
Peak intensity	1.3 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	gr a.
Required components:		
		310 325
		10 0 10
SAMSUN	IG	22) 0° 22° 90° 90°
SAMSUN		
LED	LH231B	
LED FWHM / FWTM	LH231B 48.0° / 76.0°	
LED FWHM / FWTM Efficiency	LH231B 48.0° / 76.0° 90 %	
LED FWHM / FWTM Efficiency Peak intensity	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH231B 48.0° / 76.0° 90 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1	25° (° 13° 99° 99° 90° 90° 400 60° 60° 60° 60° 60° 60° 60° 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1	25° U° 13°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1 White LM101B 53.0° / 80.0° 90 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1 White Vhite LM101B 53.0° / 80.0° 90 % 1.2 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SANNSUN</b> LED FWHM / FWTM Efficiency Peak intensity	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1 White Vhite LM101B 53.0° / 80.0° 90 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1 White Vhite LM101B 53.0° / 80.0° 90 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1 White Vhite LM101B 53.0° / 80.0° 90 % 1.2 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LH231B 48.0° / 76.0° 90 % 1.3 cd/lm 1 White Vhite LM101B 53.0° / 80.0° 90 % 1.2 cd/lm 1	



## PHOTOMETRIC DATA (SIMULATED):

SEOUL SEMICONDUCTOR		90*
LED	Z8Y15	75'
FWHM / FWTM	44.0° / 53.0°	400
Efficiency	87 %	60* 60*
Peak intensity	1.6 cd/lm	200
LEDs/each optic	1	
Light colour	White	63. 63.
Required components:		30 <sup>10</sup> 120 150 150 150 150
SECUL		30°
LED	Z8Y19	75*
FWHM / FWTM	45.0° / 73.0°	400
Efficiency	87 %	60° 60°
Peak intensity	1.5 cd/lm	
LEDs/each optic	1	
Light colour	White	43°
Required components:		250 200 200 200 200 200 200 200 200 200
SEOUL		50° 50°
SEOUL SEMICONDUCTOR	Z8Y22	
EED FWHM / FWTM	44.0° / 76.0°	75°
Efficiency	86 %	
Peak intensity	1.4 cd/lm	60° - 60°
LEDs/each optic	1	
Light colour	White	a7 <sup>4</sup> 43 <sup>4</sup>
Required components:		220 31 <sup>th</sup> 25 <sup>th</sup> 15 <sup>th</sup>



## PRODUCT DATASHEET FP16610\_LISA3CSP-WW-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:

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