

# PRODUCT DATASHEET CA12428\_TINA3-WWW

# **TINA3-WWW**

~70° wide beam. Assembly with holder, installation tape and location pins.

## **TECHNICAL SPECIFICATIONS:**

Dimensions	Ø 16.1 mm
Height	6.9 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



## **MATERIAL SPECIFICATIONS:**

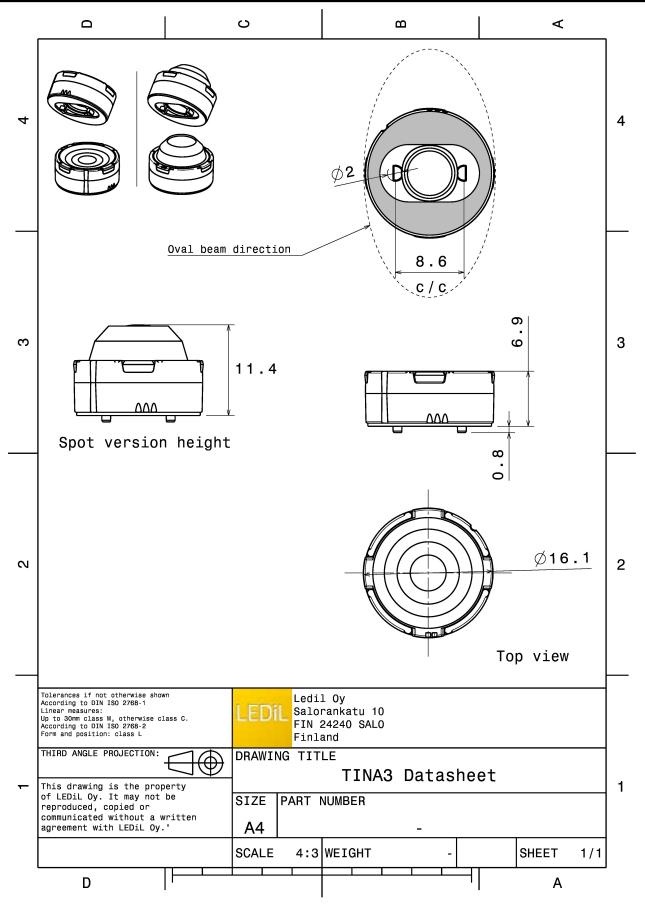
Component	Туре	Material	Colour	Finish
TINA3-WWW	Single lens	PMMA	clear	
TINA3-HLD-PIN-TAPE	Holder	PC	white	
TINA-TAPE3	Таре	Acrylic foam	black	

### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12428_TINA3-WWW » Box size: 451 x 241 x 298 mm	Single lens	5750	230	230	8.2



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



	D	CATOLINA (FIND-JAMA (FILD-FIL)	90°	90*
LED	XP-E2			
FWHM / FWTM	77.0° / 106.0°		75	75
Efficiency	88 %			_200
Peak intensity	0.7 cd/lm		60*	60°
LEDs/each optic	1			
Light colour	White		974	400
Required compone				
			30*	
			15%	0° 15°
	D		90*	90*
LED	XP-G			
FWHM / FWTM	69.0° / 102.0°		25	
Efficiency	87 %		60*	200
Peak intensity	0.7 cd/lm			
LEDs/each optic	1			
Light colour	White		974	400 43*
Required compone	ents:			
				ero
			300	34°
			123	0° 15°
			90°	
			90*	90°
LED	XP-G2		75*	<u> </u>
LED FWHM / FWTM	XP-G2 76.0° / 108.0°		72	
LED FWHM / FWTM Efficiency	XP-G2 76.0° / 108.0° 86 %		97 72 87	500 Str
LED FWHM / FWTM Efficiency Peak intensity	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm		97 77 96	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1		99°	200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White		97 75 94 94	50 50 60 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White		97 75 90 9	20 20 40
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White		97 73 99 97 97	500
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White		97 97 97	200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White Its:		20- 20- 20- 20- 20- 20- 20-	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White Its:		99°	80 80 80 80 80 80 80 80 80 80
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White Its:			200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White ints:			200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White Ints: XP-L HI			20 20 20 20 20 20 20 20 20 20
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White Ints: XP-L HI 74.0° / 105.0°			200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White Ints: XP-L HI 74.0° / 105.0° 91 % 0.7 cd/lm 1			200 200 200 200 200 200 200 200 200 200
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White mts: XP-L HI 74.0° / 105.0° 91 % 0.7 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White mts: XP-L HI 74.0° / 105.0° 91 % 0.7 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White mts: XP-L HI 74.0° / 105.0° 91 % 0.7 cd/lm 1 White			
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone Required compone Efficiency Peak intensity LEDs/each optic Light colour	XP-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White mts: XP-L HI 74.0° / 105.0° 91 % 0.7 cd/lm 1 White			
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-G2 76.0° / 108.0° 86 % 0.6 cd/lm 1 White mts: XP-L HI 74.0° / 105.0° 91 % 0.7 cd/lm 1 White			



		90* 90*
LED	XT-E	
FWHM / FWTM	68.0° / 102.0°	73
Efficiency	85 %	200
Peak intensity	0.7 cd/lm	60*
LEDs/each optic	1	
Light colour	White	gr 40 43*
Required compone		
		30° 15° 0° 15°
UMIL	.EDS	90* 90*
LED	LUXEON A	
FWHM / FWTM	74.0° / 106.0°	73*
Efficiency	86 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	45 <sup>+</sup>
Required compone	ents:	400
		30° 600 30°
		15° 0° 15°
🥙 LUMIL	.EDS	90* 90*
LED	LUXEON T	
FWHM / FWTM	78.0° / 109.0°	73*
Efficiency	86 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	5° 57
Required compone	ents:	40
		30°
		15° 0° 15°
	EDS	
		30 <sup>1</sup>
LED	LUXEON TX	25- 26- 20- 20-
LED FWHM / FWTM	LUXEON TX 79.0° / 115.0°	99 <sup>4</sup> 75 <sup>4</sup> 75 <sup>4</sup>
LED FWHM / FWTM Efficiency	LUXEON TX 79.0° / 115.0° 87 %	99 <sup>4</sup> 75 6 <sup>4</sup> 200
LED FWHM / FWTM Efficiency Peak intensity	LUXEON TX 79.0° / 115.0° 87 % 0.6 cd/lm	99* 99* 25: 66* 200 00*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX 79.0° / 115.0° 87 % 0.6 cd/lm 1	79° 72° 69° 73°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 79.0° / 115.0° 87 % 0.6 cd/lm 1 White	95°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON TX 79.0° / 115.0° 87 % 0.6 cd/lm 1 White	79° 72° 72° 66°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 79.0° / 115.0° 87 % 0.6 cd/lm 1 White	79° 72° 72° 66°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 79.0° / 115.0° 87 % 0.6 cd/lm 1 White	79° 72° 72° 66°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON TX 79.0° / 115.0° 87 % 0.6 cd/lm 1 White	79° 72° 72° 66°



<b>ØNICHI</b>	<b>N</b>	90* 90*
LED	NVSxx19A	
FWHM / FWTM	75.0° / 106.0°	<u>x</u> ,
Efficiency	83 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	a <sup>2</sup> a <sup>2</sup>
Required compone	nts:	400
		30* 30*
<b>ØNICHI</b>		90° 90° 13°
LED	NVSxx19B/NVSxx19C	
FWHM / FWTM	79.0° / 113.0°	75*
Efficiency	90 %	
Peak intensity	0.6 cd/lm	60* 60*
LEDs/each optic	1	
Light colour	White	gy
Required compone		
		800
		153 00 153
OSRAM Opto Semiconductors		804 804 804 804 804 804 804 804 804 804
OSRAM Opto Semiconductors	OSLON Square EC	 90°
LED	OSLON Square EC 75.0° / 110.0°	 39     39       125     64     32
LED FWHM / FWTM	OSLON Square EC 75.0° / 110.0° 84 %	
LED FWHM / FWTM Efficiency	75.0° / 110.0°	200 00 15 <sup>2</sup>
LED FWHM / FWTM	75.0° / 110.0° 84 %	200 00 200
LED FWHM / FWTM Efficiency Peak intensity	75.0° / 110.0° 84 % 0.6 cd/lm	200 Ext
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	75.0° / 110.0° 84 % 0.6 cd/lm 1 White	50° 0° 35° 50° 50° 50° 200 60° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	75.0° / 110.0° 84 % 0.6 cd/lm 1 White	94 94 15 <sup>4</sup> 95 95 97 95 95 96 97 97 98 98 98 98 98 98 98 98 98 98 98 98 98
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	75.0° / 110.0° 84 % 0.6 cd/lm 1 White	50° 6° 35° 50° 6° 35° 50° 6° 50° 6° 50° 6° 50° 6° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	75.0° / 110.0° 84 % 0.6 cd/lm 1 White	99° 79° 79° 79° 79° 79° 70° 70° 70° 70° 70° 70° 70° 70° 70° 70
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	75.0° / 110.0° 84 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	75.0° / 110.0° 84 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	75.0° / 110.0° 84 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	75.0° / 110.0° 84 % 0.6 cd/lm 1 White hts: NGC LH351B 76.0° / 110.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	75.0° / 110.0° 84 % 0.6 cd/lm 1 White hts: NGC LH351B 76.0° / 110.0° 86 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSU</b> LED FWHM / FWTM Efficiency Peak intensity	75.0° / 110.0° 84 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	75.0° / 110.0° 84 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SANS</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	75.0° / 110.0° 84 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone SANSU LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	75.0° / 110.0° 84 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SANNSU</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	75.0° / 110.0° 84 % 0.6 cd/lm 1 White hts:	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone <b>SAMSSU</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	75.0° / 110.0° 84 % 0.6 cd/lm 1 White hts:	



SAMSI	UNG	91 <sup>4</sup>
LED	LH351Z	77
FWHM / FWTM	85.0° / 121.0°	
Efficiency	87 %	60 <sup>4</sup>
Peak intensity	0.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
		34*



# PHOTOMETRIC DATA (SIMULATED):

		90° 90°
LED	J Series 2835	
FWHM / FWTM	80.0° / 104.0°	73*
Efficiency	92 %	
Peak intensity	0.6 cd/lm	60 <sup>12</sup> 80 <sup>2</sup>
LEDs/each optic	1	
Light colour	White	45+ A
Required components:	WINC .	
rioquirou componente.		
		30° 30° 30° 30°
	)S	90* 90*
LED	LUXEON 2835 Line	
FWHM / FWTM	80.0° / 103.0°	73*
Efficiency	93 %	
Peak intensity	0.6 cd/lm	60°
LEDs/each optic	1	
Light colour	White	934
Required components:		400
		36° 660 30°
ØΝΙCΗΙΛ		9 <sup>54</sup> 60 9 <sup>24</sup> 15 <sup>4</sup> 9 <sup>34</sup> 15 <sup>4</sup> 9 <sup>54</sup> 59 <sup>4</sup>
	NCSxE17A	30°     60     30°       50°     50°     50°
	NCSxE17A 58.0° / 114.0°	30°     60     30°       30°     60     30°       30°     90°     90°       73°     90°     90°
LED		30°     60     30°       30°     60     12°       30°     90°     90°       75     200     90°
LED FWHM / FWTM Efficiency	58.0° / 114.0°	60     30°       30°     60     10°       30°     60°     10°       30°     50°     60°
LED FWHM / FWTM Efficiency Peak intensity	58.0° / 114.0° 80 %	000     000     000       39"     000     000       39"     000     000       39"     000     000
LED FWHM / FWTM Efficiency	58.0° / 114.0° 80 % 0.6 cd/lm	Str     Str
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	58.0° / 114.0° 80 % 0.6 cd/lm 4	Str     Str
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 114.0° 80 % 0.6 cd/lm 4	30°     600     30°       10°     10°     10°       90°     10°     10°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 114.0° 80 % 0.6 cd/lm 4	app     app
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 114.0° 80 % 0.6 cd/lm 4	30°     60     30°       30°     60°     20°       30°     50°     50°       50°     50°     60°       50°     60°     60°       50°     60°     60°       50°     60°     60°       50°     60°     60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 114.0° 80 % 0.6 cd/lm 4 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	58.0° / 114.0° 80 % 0.6 cd/lm 4 White	39.4     30.4     30.4       39.4     30.4     30.4       39.4     30.4     30.4       39.4     30.4     30.4       39.4     30.4     30.4
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 114.0° 80 % 0.6 cd/lm 4 White	39* 60 30*   39* 200 60*   39* 200 60*   39* 200 60*   39* 200 60*   39* 200 60*   39* 200 60*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	58.0° / 114.0° 80 % 0.6 cd/lm 4 White	32.     95.       33.     10.       34.     90.       35.     90.       36.     90.       36.     90.       36.     90.       36.     90.       36.     90.       36.     90.       90.     90.       90.     90.       90.     90.       90.     90.       90.     90.       90.     90.       90.     90.       90.     90.       90.     90.       90.     90.       90.     90.       90.     90.       90.     90.       90.     90.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	58.0° / 114.0° 80 % 0.6 cd/lm 4 White	33.     30.     32.       33.     0.     32.       34.     30.     0.       35.     0.     0.       36.     30.     0.       36.     30.     0.       36.     30.     0.       36.     30.     0.       36.     30.     0.
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency	58.0° / 114.0° 80 % 0.6 cd/lm 4 White LM28xB Series 80.0° / 104.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity	58.0° / 114.0° 80 % 0.6 cd/lm 4 White C LM28xB Series 80.0° / 104.0°	
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	58.0° / 114.0° 80 % 0.6 cd/lm 4 White LM28xB Series 80.0° / 104.0° 92 % 0.6 cd/lm	
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	58.0° / 114.0° 80 % 0.6 cd/lm 4 White LM28xB Series 80.0° / 104.0° 92 % 0.6 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	58.0° / 114.0° 80 % 0.6 cd/lm 4 White LM28xB Series 80.0° / 104.0° 92 % 0.6 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	58.0° / 114.0° 80 % 0.6 cd/lm 4 White LM28xB Series 80.0° / 104.0° 92 % 0.6 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	58.0° / 114.0° 80 % 0.6 cd/lm 4 White LM28xB Series 80.0° / 104.0° 92 % 0.6 cd/lm 1	



# PHOTOMETRIC DATA (SIMULATED):

SEOUL SEMICONDUCTOR		30 <sup>4</sup> 30 <sup>5</sup>
LED	Z5M1/Z5M2	75
FWHM / FWTM	62.0° / 102.0°	
Efficiency	92 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	g. at
Required component	IS:	204 125 0° 125



#### **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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