

# PRODUCT DATASHEET FA11904\_TINA3-WWW

# **TINA3-WWW**

~70° wide beam optimized for CREE XP-E. Assembly with holder, installation tape and location pins.

### **SPECIFICATION:**

Dimensions	Ø 16.1 mm
Height	7 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



### **MATERIALS:**

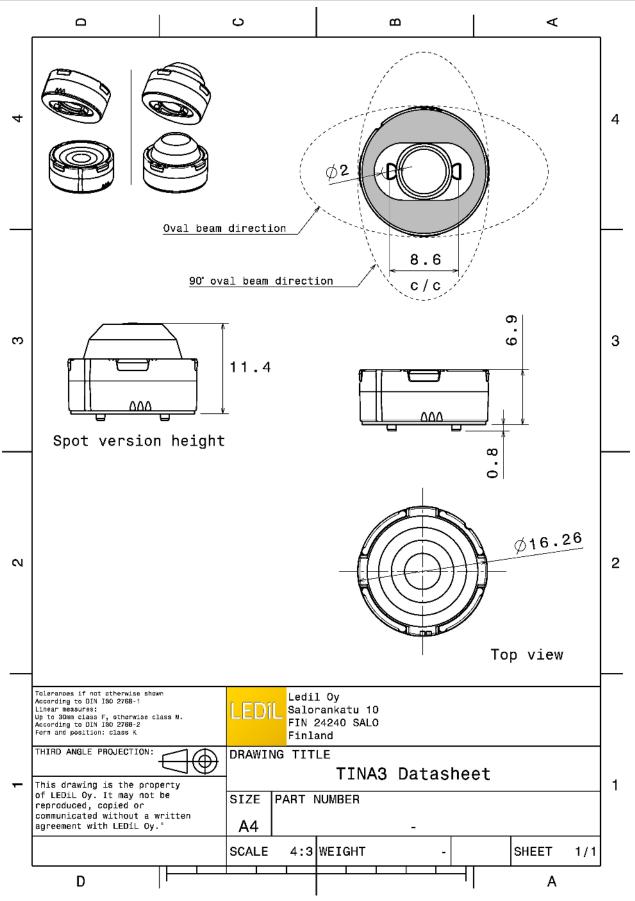
Component	Туре	Material	Colour	Finish
TINA3-WWW	Single lens	PMMA	clear	
TINA3-HLD-PIN-TAPE-XP	Holder	PC	white	
TINA-TAPE3	Таре	Acrylic foam	black	

### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
FA11904_TINA3-WWW	Single lens	2016	288	288	3.0
» Box size:					



# PRODUCT DATASHEET FA11904\_TINA3-WWW



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



## **OPTICAL RESULTS (MEASURED):**

	_		
	D	£7	
LED	XM-L		
FWHM / FWTM	70.0° / 122.0°		
Efficiency	89 %		
Peak intensity	0.6 cd/lm		/*
LEDs/each optic	1		
Light colour	White		
Required compone			
		and the second sec	
LED	XM-L2		
FWHM / FWTM	71.0° / 110.0°		1
Efficiency	88 %	e the second	1
Peak intensity	0.7 cd/lm		
LEDs/each optic	1		
Light colour	White		*
Required compone	nts:		
LED	XP-G2		
FWHM / FWTM	67.0° / 107.0°	11.	
Efficiency	90 %		
Peak intensity	0.7 cd/lm		94
LEDs/each optic	0.7 Cu/III		
	1		
	1 White		
Light colour	White		>
Light colour Required compone	White		>
Light colour	White	50	>
Light colour	White		>.
Light colour	White		
Light colour	White nts:		
Light colour Required compone	White nts:		
Light colour Required compone	White nts:		
Light colour Required compone	White nts: XP-L HD		
Light colour Required compone	White nts: XP-L HD 65.0° / 112.0°		
Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity	White nts: XP-L HD 65.0° / 112.0° 89 %		
Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White nts: XP-L HD 65.0° / 112.0° 89 % 0.7 cd/lm		
Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	White nts: XP-L HD 65.0° / 112.0° 89 % 0.7 cd/lm 1 White		
Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White nts: XP-L HD 65.0° / 112.0° 89 % 0.7 cd/lm 1 White		
Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White nts: XP-L HD 65.0° / 112.0° 89 % 0.7 cd/lm 1 White		
Light colour Required compone CREE (LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	White nts: XP-L HD 65.0° / 112.0° 89 % 0.7 cd/lm 1 White		



# **OPTICAL RESULTS (MEASURED):**

		E.Y
LED	XP-L HI	
FWHM / FWTM	67.0° / 101.0°	##
Efficiency	90 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
		31
LED	XT-E	
FWHM / FWTM	60.0° / 110.0°	
Efficiency	88 %	
Peak intensity	0.8 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
ØNICHI/		17 W
LED	NS9x383	
FWHM / FWTM	72.0° / 114.0°	
Efficiency	87 %	
Peak intensity	0.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	
ØNICHI/		
	NVSW219F	nt Are
FWHM / FWTM	64.0° / 107.0°	V Anna V
Efficiency	90 %	
Peak intensity LEDs/each optic	0.7 cd/lm	
LEDS/each optic	1 White	47 - 48 - 49 - 49 - 49 - 49 - 49 - 49 - 49
Required compone		
	ano.	
		$\times$ / $\checkmark$ / $\times$



## **OPTICAL RESULTS (MEASURED):**

SEQUE SEMICONDUCTOR		
LED	Z5M1/Z5M2	
FWHM / FWTM	65.0° / 106.0°	
Efficiency	89 %	r
Peak intensity	0.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	ents:	



# **OPTICAL RESULTS (SIMULATED):**

		6.º
LED	XD16	
FWHM / FWTM	77.0° / 116.0°	
Efficiency	87 %	
Peak intensity	0.5 cd/lm	
LEDs/each optic	4	
Light colour	White	
Required components:		
		£7
LED	XHP35 HD	
FWHM / FWTM	67.0° / 120.0°	
Efficiency	84 %	
Peak intensity	0.6 cd/lm	$\wedge / / \wedge \wedge \wedge$
LEDs/each optic	1	
Light colour	White	
Required components:		
		155 07 307
	XHP35 HI	
	XHP35 HI 75.0° / 109.0°	
LED		
LED FWHM / FWTM	75.0° / 109.0°	
LED FWHM / FWTM Efficiency	75.0° / 109.0° 94 %	
LED FWHM / FWTM Efficiency Peak intensity	75.0° / 109.0° 94 % 0.7 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	75.0° / 109.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	75.0° / 109.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	75.0° / 109.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	75.0° / 109.0° 94 % 0.7 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	75.0° / 109.0° 94 % 0.7 cd/lm 1	10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	75.0° / 109.0° 94 % 0.7 cd/lm 1 White	10 10 10 10 10 10 10 10 10 10 10 10 10 1
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	75.0° / 109.0° 94 % 0.7 cd/lm 1 White	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	75.0° / 109.0° 94 % 0.7 cd/lm 1 White XHP35.2 HD 79.0° / 120.0°	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	75.0° / 109.0° 94 % 0.7 cd/lm 1 White XHP35.2 HD 79.0° / 120.0° 86 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	75.0° / 109.0° 94 % 0.7 cd/lm 1 White XHP35.2 HD 79.0° / 120.0° 86 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	75.0° / 109.0° 94 % 0.7 cd/lm 1 White XHP35.2 HD 79.0° / 120.0° 86 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	75.0° / 109.0° 94 % 0.7 cd/lm 1 White XHP35.2 HD 79.0° / 120.0° 86 % 0.5 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	75.0° / 109.0° 94 % 0.7 cd/lm 1 White XHP35.2 HD 79.0° / 120.0° 86 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	75.0° / 109.0° 94 % 0.7 cd/lm 1 White XHP35.2 HD 79.0° / 120.0° 86 % 0.5 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	75.0° / 109.0° 94 % 0.7 cd/lm 1 White XHP35.2 HD 79.0° / 120.0° 86 % 0.5 cd/lm 1	



# **OPTICAL RESULTS (SIMULATED):**

LED	XM-L HVW		
FWHM / FWTM	80.0°		
Efficiency	%		
LEDs/each optic	1		
Light colour	White		
Required components:			
			······································
LED	XP-G3		
FWHM / FWTM	76.0° / 113.0°		
Efficiency	91 %		
Peak intensity	0.6 cd/lm		$\Lambda / / / \Lambda \Lambda / \Lambda$
LEDs/each optic	1		$ \times  /     \times  $
Light colour	White		* <b>*</b>
Required components:			
	DS		
LED	LUXEON HL2X		
FWHM / FWTM	81.0° / 113.0°		11
Efficiency	93 %		
Peak intensity	0.6 cd/lm		
LEDs/each optic	1		$\times / / /   \times \times \times$
Light colour	White		
Required components:			
			X S S X
	US	Polar intensity graph	6.5 ×
LED	SST-10-IR-B90		15
FWHM / FWTM	72.0° / 99.0°		
Efficiency	92 %		
LEDs/each optic	1		
Light colour	IR		X / X X
Required components:			
			105 10 10

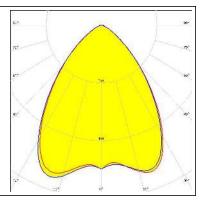


## **OPTICAL RESULTS (SIMULATED):**

### **WNICHIA**

LED
FWHM / FWTM
Efficiency
Peak intensity
LEDs/each optic
Light colour
Required components:

NVSW3x9A 79.0° / 117.0° 92 % 0.6 cd/lm 1 White





### **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