

PRODUCT DATASHEET CA12376_TINA2-SS

TINA2-SS

~20° smooth spot beam. Assembly with holder, installation tape and location pins.

SPECIFICATION:

Dimensions	Ø 16.0 mm
Height	9.3 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



MATERIALS:

Component TINA2-SS TINA2-HLD-BLK TINA-TAPE3

Туре
Single lens
Holder
Таре

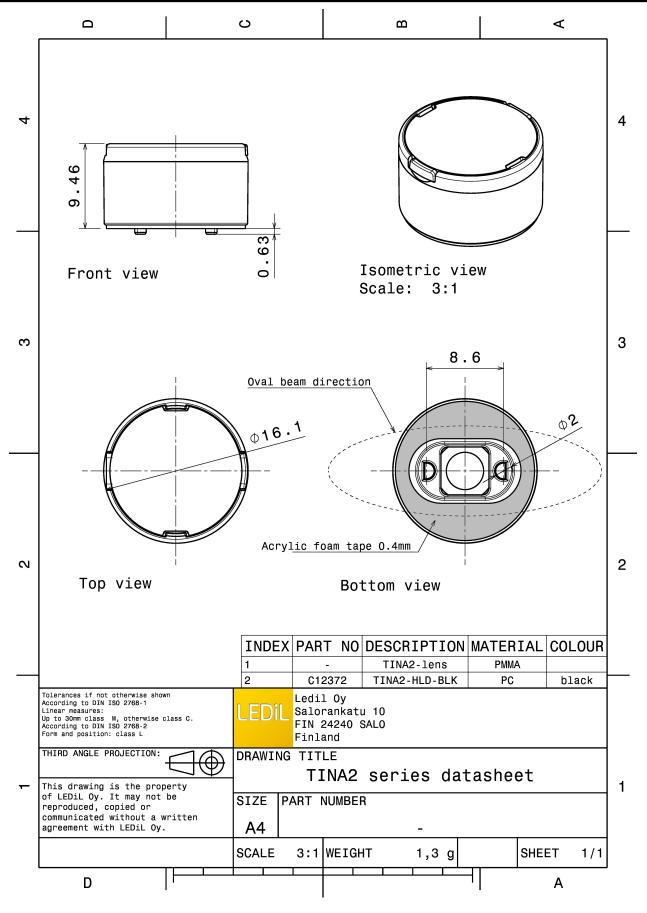
Μ	aterial	Colour	Finish
P	MMA	clear	
P	C	black	
A	crylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12376_TINA2-SS	Single lens	4140	230	230	8.6
» Box size:					



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



OPTICAL RESULTS (MEASURED):

CREE CLED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XB-H 22.0° / 41.0° 87 % 4.8 cd/lm 1 White	X ¹ 2 2 2 3 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5
CREE CLEO EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XQ-E HD 22.0° / 39.0° 85 % 6.2 cd/lm 1 White	
WHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON CZ 20.0° / 33.0° 91 % 7.3 cd/lm 1 White	800 90 90 90 90 90 90 90 90 90
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	LUXEON TX 22.0° / 40.0° 89 % 5.1 cd/lm 1 White	Xi. Di. 0i. Di. yi.



OPTICAL RESULTS (MEASURED):

	FDS	
LED	LUXEON Z ES	
FWHM / FWTM	21.0° / 37.0°	
Efficiency	88 %	
Peak intensity	6.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
	L	95 ⁴ 95 ⁴
LED	NWSx229A	
FWHM / FWTM	26.0° / 52.0°	77 78
Efficiency	86 %	
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone		
Required compone		200
		30° 200 30°
OSRAM		
USRAM		90° 90°
Opto Semiconductors		90*
Opto Semiconductors	OSLON Square EC	32°
opto Semiconductors LED FWHM / FWTM	23.0° / 40.0°	73
opto Semiconductors LED FWHM / FWTM Efficiency	23.0° / 40.0° 85 %	93 ⁴ 500 66 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	23.0° / 40.0° 85 % 4.1 cd/lm	93 ⁴ 93 ⁵ 93 93 90 90 90 90 90 90 90 90 90 90 90 90 90
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	23.0° / 40.0° 85 % 4.1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 40.0° 85 % 4.1 cd/lm 1 White	
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	23.0° / 40.0° 85 % 4.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 40.0° 85 % 4.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 40.0° 85 % 4.1 cd/lm 1 White	gr ar
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opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	23.0° / 40.0° 85 % 4.1 cd/lm 1 White nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED	23.0° / 40.0° 85 % 4.1 cd/lm 1 White nts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM	23.0° / 40.0° 85 % 4.1 cd/lm 1 White nts: OSLON SSL 150 22.0° / 37.0°	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	23.0° / 40.0° 85 % 4.1 cd/lm 1 White nts: OSLON SSL 150 22.0° / 37.0° 89 %	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	23.0° / 40.0° 85 % 4.1 cd/lm 1 White nts: OSLON SSL 150 22.0° / 37.0° 89 % 6.3 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	23.0° / 40.0° 85 % 4.1 cd/lm 1 White nts: OSLON SSL 150 22.0° / 37.0° 89 % 6.3 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSCRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 40.0° 85 % 4.1 cd/lm 1 White nts: OSLON SSL 150 22.0° / 37.0° 89 % 6.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	23.0° / 40.0° 85 % 4.1 cd/lm 1 White nts: OSLON SSL 150 22.0° / 37.0° 89 % 6.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSCRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 40.0° 85 % 4.1 cd/lm 1 White nts: OSLON SSL 150 22.0° / 37.0° 89 % 6.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSCRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 40.0° 85 % 4.1 cd/lm 1 White nts: OSLON SSL 150 22.0° / 37.0° 89 % 6.3 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone OSERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	23.0° / 40.0° 85 % 4.1 cd/lm 1 White nts: OSLON SSL 150 22.0° / 37.0° 89 % 6.3 cd/lm 1 White	



OPTICAL RESULTS (MEASURED):

OSRAM Opto Semiconductors				
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone	SFH 4725S 20.0° / 39.0° % 1 White ents:			
seous semiconductor LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	Z5M3 23.0° / 45.0° 87 % 4 cd/lm 1 White ents:		30°	



OPTICAL RESULTS (SIMULATED):

CREE LED LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XB-D 26.0° / 49.0° 88 % 3.5 cd/lm 1 White	91 91 92 90 90 90 90 90 90 90 90 90 90
<i>(</i>)		15 0° 15
EUMILEE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 26.0° / 45.0° 93 % 3.8 cd/lm 1 White	24° 200 24° 200 26° 200 200 200 200 200 200 200 200
	LUXEON IR Compact	
FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	26.0° / 44.0° 84 % 1 White	
	DS	54° A 55°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON Rubix 26.0° / 45.0° 92 % 4.1 cd/lm 1 Red	g



OPTICAL RESULTS (SIMULATED):

🥙 LUMILEC	IS In the second s	50° 50
LED	LUXEON Rubix	
FWHM / FWTM	26.0° / 46.0°	
Efficiency	92 %	901 / je
Peak intensity	4 cd/lm	
LEDs/each optic	1	
Light colour	White	ec
Required components:		330
		36° 36° 360 360
🖉 LUMILEC	S S	90°
LED	LUXEON Rubix	
FWHM / FWTM	26.0° / 46.0°	
Efficiency	92 %	601 60
Peak intensity	4.1 cd/lm	1600
LEDs/each optic	1	
Light colour	Blue	42×
Required components:		
		- 3200
		36° 150 00 150 36
		50°
LED	NFSx757G	
FWHM / FWTM	27.0° / 47.0°	75
Efficiency	92 %	
Peak intensity	3.7 cd/lm	60° (60)
LEDs/each optic	1	
Light colour	White	475
Required components:		
		20
		34
OSRAM		
Opto Semiconductors	Duris S5 (2 chip)	34
Opto Semiconductors LED	Duris S5 (2 chip) 25.0° / 46.0°	34
^{opto Semiconductors} LED FWHM / FWTM	25.0° / 46.0°	34
^{opto Semiconductors} LED FWHM / FWTM Efficiency	25.0° / 46.0° 92 %	34
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity	25.0° / 46.0°	
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	25.0° / 46.0° 92 % 4.1 cd/lm 1	
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	25.0° / 46.0° 92 % 4.1 cd/lm	
^{opto Semiconductors} LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	25.0° / 46.0° 92 % 4.1 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	25.0° / 46.0° 92 % 4.1 cd/lm 1	



OPTICAL RESULTS (SIMULATED):

OSRAM		90* 90*
Opto Semiconductors	OSCONIQ P 3030	
FWHM / FWTM	24.0° / 45.0°	75.
Efficiency	91 %	
Peak intensity	4.4 cd/lm	69° 69°
LEDs/each optic	1	
Light colour	Blue	45*
Required components:	bitt	3200
rioquirou componento.		
		\times / \vee / \times
		36° 36° 38°
OSRAM Opto Semiconductors		90° 90°
LED	OSLON Square Flat	
FWHM / FWTM	27.0° / 45.0°	75° 75°
Efficiency	90 %	50°
Peak intensity	3.9 cd/lm	
LEDs/each optic	1	
Light colour	White	g* <u>2100</u> 63*
Required components:		
		3230
		30- 4000 34.
		15° 0° 15°
OSRAM Opto Semiconductors		90* 90*
LED	OSLON SSL 80	
FWHM / FWTM	27.0° / 46.0°	75* 75*
Efficiency	90 %	
Peak intensity	3.7 cd/lm	1670
LEDs/each optic	1	
Light colour	White	g ⁻ 200
Required components:		
		220
		300 340
OSRAM		15"
Opto Semiconductors		
LED	SFH 4770S	
FWHM / FWTM	24.0° / 44.0°	
Efficiency	86 %	
Peak intensity	4.1 cd/lm	
LEDs/each optic	1 Million	
Light colour	White	
Required components:		
1		



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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.

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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

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