

PRODUCT DATASHEET CA12378_TINA2-W

TINA2-W

~45° wide beam. Assembly with holder, installation tape and location pins.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.0 mm
Height	9.5 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

Component
TINA2-W-XP
TINA2-HLD-BLK
TINA-TAPE3

Туре	
Single lens	
Holder	
Таре	

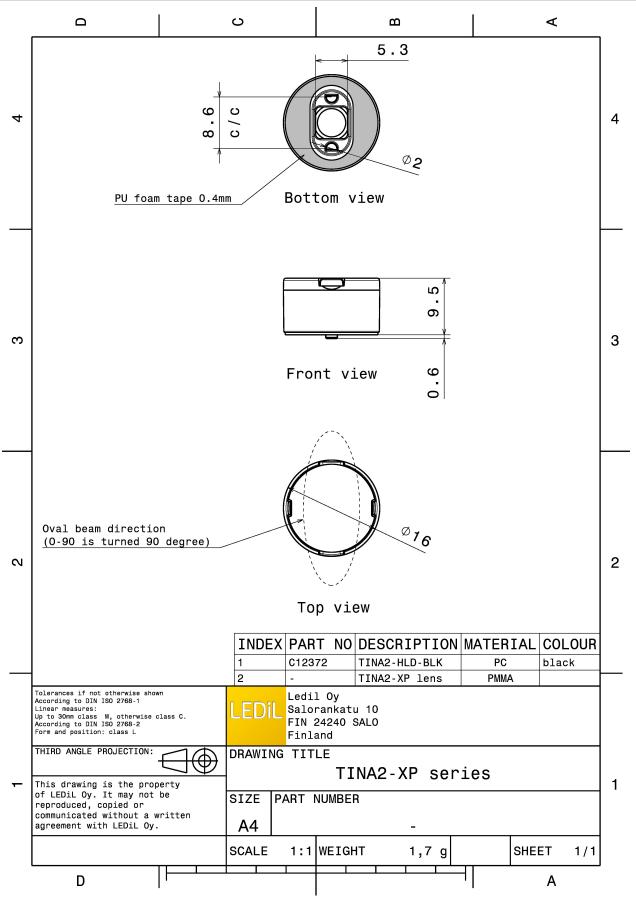
Material	Colour	Finish
PMMA	clear	
PC	black	
Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12378_TINA2-W	Single lens	4140	230	230	8.3
» Box size:					



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



PHOTOMETRIC DATA (MEASURED):

		39,4 39,4
LED	XD16	
FWHM / FWTM	40.0° / 61.0°	77
Efficiency	83 %	
Peak intensity	1.8 cd/lm	
LEDs/each optic	1	
Light colour	White	gr Co
Required compone		
		100
		157 04 157
UMIL	EDS	50 [,] 30 [,]
LED	LUXEON CZ	
FWHM / FWTM	39.0° / 61.0°	
Efficiency	92 %	60*
Peak intensity	2.2 cd/lm	
LEDs/each optic	1	
Light colour	White	a, a,
Required compone	nts:	- 1600
	EDS	20 10 10 10 10 10 10 10 10 10 10 10 10 10
LED	LUXEON TX	
FWHM / FWTM	49.0° / 68.0°	75
Efficiency	88 %	
Peak intensity	1.6 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	
		30'
ØNICHI		201 40 TO
		90* 90*
LED	NVSxx19B/NVSxx19C	75
		60*
Requirea compone	าเร:	
		34 309 30
WHM / FWTM (fficiency eak intensity EDs/each optic ight colour Required compone	52.0° / 70.0° 87 % 1.4 cd/lm 1 White	



PHOTOMETRIC DATA (MEASURED):

- 1		
ØNICHI		30* 90*
LED	NWSx229A	
FWHM / FWTM	55.0° / 77.0°	
Efficiency	84 %	
Peak intensity	1 cd/lm	
LEDs/each optic	1	
Light colour	White	gr at a second
Required component		
		25 0, 25
OSRAM Opto Semiconductors		90 ⁴ 90 ⁴
LED	OSLON Square EC	
FWHM / FWTM	52.0° / 72.0°	
Efficiency	85 %	
Peak intensity	1.2 cd/lm	
LEDs/each optic	1	
Light colour	White	a. at
Required compone	nts:	
		30* 1220 3*
		15° 0° 15°
OSRAM		
OSRAM Opto Semiconductors		90 ⁴ 90 ⁴
Opto Semiconductors	OSLON Square EC	32. 30,
opto Semiconductors LED FWHM / FWTM	50.0° / 73.0°	32. 26. 26.
opto Semiconductors LED FWHM / FWTM Efficiency	50.0° / 73.0° 84 %	10 ¹ 10 ² 10 ² 10 ² 10 ²
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	50.0° / 73.0° 84 % 1.1 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	50.0° / 73.0° 84 % 1.1 cd/lm 1	90 ⁴ 00 90 ⁴
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 73.0° 84 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	50.0° / 73.0° 84 % 1.1 cd/lm 1 White	32 60 60 60 35 60 60 60
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 73.0° 84 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 73.0° 84 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 73.0° 84 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	50.0° / 73.0° 84 % 1.1 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component	50.0° / 73.0° 84 % 1.1 cd/lm 1 White hts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED	50.0° / 73.0° 84 % 1.1 cd/lm 1 White hts:	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM	50.0° / 73.0° 84 % 1.1 cd/lm 1 White hts: OSLON SSL 150 53.0° / 70.0°	20 ⁻
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency	50.0° / 73.0° 84 % 1.1 cd/lm 1 White hts: OSLON SSL 150 53.0° / 70.0° 85 %	20 ⁻
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component ODE SERAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	50.0° / 73.0° 84 % 1.1 cd/lm 1 White hts: OSLON SSL 150 53.0° / 70.0° 85 % 1.2 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	50.0° / 73.0° 84 % 1.1 cd/lm 1 White hts: OSLON SSL 150 53.0° / 70.0° 85 % 1.2 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 73.0° 84 % 1.1 cd/lm 1 White hts: OSLON SSL 150 53.0° / 70.0° 85 % 1.2 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	50.0° / 73.0° 84 % 1.1 cd/lm 1 White hts: OSLON SSL 150 53.0° / 70.0° 85 % 1.2 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 73.0° 84 % 1.1 cd/lm 1 White hts: OSLON SSL 150 53.0° / 70.0° 85 % 1.2 cd/lm 1 White	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required component Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	50.0° / 73.0° 84 % 1.1 cd/lm 1 White hts: OSLON SSL 150 53.0° / 70.0° 85 % 1.2 cd/lm 1 White	



PHOTOMETRIC DATA (MEASURED):

OSRAM Opto Semiconductors				
Opto demiconductors				
LED	SFH 4170S			
FWHM / FWTM	38.0° / 61.0°			
Efficiency	%			
LEDs/each optic	1			
Light colour	IR			
Required compone				
OSRAM				
Opto Semiconductors				
LED	SFH 4180S			
EED FWHM / FWTM	34.0° / 60.0°			
Efficiency	%			
LEDs/each optic	1			
LEDS/each optic	IR			
Required compone				
	51115.			
OSRAM				
Opto Semiconductors				
LED	SFH 4715S			
FWHM / FWTM	36.0° / 80.0°			
Efficiency	%			
LEDs/each optic	1			
Light colour	White			
Required compone	ents:			
SEOUL				F
SEOUL SEMICONDUCTOR			90°	90*
LED	Z5M3		75°	
FWHM / FWTM	50.0° / 72.0°			
Efficiency	86 %		60°	400.
Peak intensity	1.3 cd/lm			/
LEDs/each optic	1			
Light colour	White		45°	600
Required compone	ents:			
Required compone	ents:			
Required compone	ents:		\rightarrow	
Required compone	ents:			



PHOTOMETRIC DATA (SIMULATED):

LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XB-D White 40.0° / 64.0° 89 % 1.9 cd/lm 1 White	55° 25° 400 55° 400 60° 60° 60° 60° 60° 60°
		200 200 200
		90* 90*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	XQ-E HI 42.0° / 64.0° 92 % 1.9 cd/lm 1 White	27 120 Qr 19 10 10 10 10 10 10 10 10 10 10 10 10 10
Required components:		300 300 2009 35" 0" 35"
	LUXEON C	50° 50°
FWHM / FWTM	44.0° / 65.0°	78* 700
Efficiency	91 %	60°
Peak intensity	1.8 cd/lm 1	
LEDs/each optic Light colour	ı White	g
Required components:		200 200 200 200 200
)S	
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	LUXEON IR Compact 51.0° / 64.0° 84 % 1 White	



PHOTOMETRIC DATA (SIMULATED):

)S	50° 50°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON Z ES 43.0° / 62.0° 93 % 2 cd/lm 1 White	200 - 25° 200 - 25°
Ø NICHIΛ		90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NCSxE17A 29.0° / 56.0° 90 % 3 cd/lm 1 White	200 200 200 200 200 200 200 200 200 200
OSRAM Opto Semiconductors		
LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	SFH 4770S 32.0° / 61.0° 88 % 1 White	
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Synios P2720 1 mm 31.0° / 60.0° 92 % 2.7 cd/lm 1 White	200 200 200 200 200 200 200 200



PHOTOMETRIC DATA (SIMULATED):

OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Synios P2720 1/2 mm 30.0° / 58.0° 92 % 2.8 cd/lm 1 White	20 20 20 20 20 20 20 20 20 20
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Synios P2720 1/4 mm 31.0° / 60.0° 92 % 2.6 cd/lm 1 White	5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5° 5
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH181B 43.0° / 61.0° 93 % 2 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.

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