

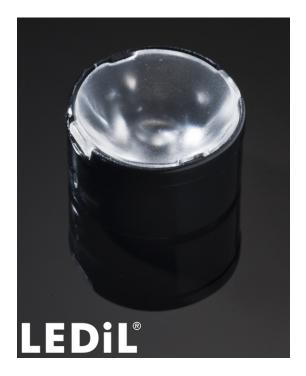
PRODUCT DATASHEET CA12375_TINA2-D

TINA2-D

~16° diffused spot beam. Assembly with holder, installation tape and location pins.

SPECIFICATION:

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



MATERIALS:

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

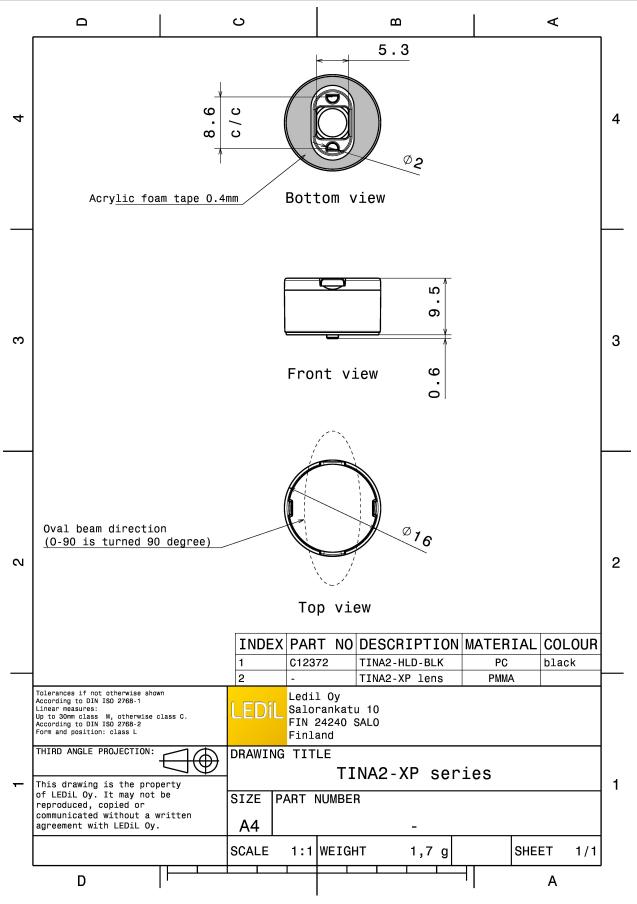
Туре	Material	Colour	Finish
Single lens	PMMA	clear	
Holder	PC	black	
Таре	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA12375_TINA2-D	Single lens	4140	230	230	8.1
» Box size: 451 x 241 x 298 mm					



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



OPTICAL RESULTS (MEASURED):

		894
LEDS FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XB-H 16.0° / 34.0° 86 % 7.7 cd/lm 1 White nts:	21° 12° 14° 12° 12° 21° 10° 21° 10°
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XD16 14.0° / 29.0° 82 % 9 cd/lm 1 White nts:	
ED FWHM / FWTM Efficiency LEDs/each optic Light colour Required compone	LUXEON Z ES 12.0° / 27.0° % 1 White	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSxx19B/NVSxx19C 18.0° / 36.0° 87 % 6.1 cd/lm 1 White	



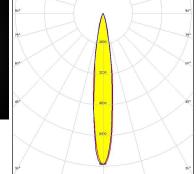
OPTICAL RESULTS (MEASURED):

OSRAM Opto Semiconductors

LEDOFWHM / FWTM16Efficiency82Peak intensity7.LEDs/each optic1Light colourWRequired components:







OSRAM Opto Semiconductors

LED	OSLON Square EC	
FWHM / FWTM	16.0° / 34.0°	
Efficiency	87 %	
Peak intensity	6.2 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		

OSRAM Opto Semiconductors

LEDOSFWHM / FWTM13Efficiency87Peak intensity6.3LEDs/each optic1Light colourWRequired components:

OSLON Square PC 13.0° / 32.0° 87 % 6.3 cd/lm 1 White nents:

OSRAM Opto Semiconductors		90* 90*
LED	OSLON SSL 150	75
FWHM / FWTM	14.0° / 28.0°	
Efficiency	89 %	601 500
Peak intensity	9.3 cd/lm	
LEDs/each optic	1	
Light colour	White	er
Required compone	nts:	600
		30* 900 30*
		15° 0° 15°



OPTICAL RESULTS (MEASURED):

OSRAM		
Opto Semiconductors		90 ⁺ 90 ⁺
LED	OSLON SSL 80	
FWHM / FWTM	12.0° / 35.0°	
Efficiency	87 %	601
Peak intensity	7.9 cd/lm	
LEDs/each optic	1	
Light colour	White	47 400 - 5°
Required compone	nts:	
		6037
		30* 850 30*
OSRAM		257 of 35°
Opto Semiconductors		
LED	SFH 4170S	
FWHM / FWTM	8.0° / 20.0°	
Efficiency	%	
LEDs/each optic	1	
Light colour	IR	
Required compone		
OSRAM Opto Semiconductors		
Opto Semiconductors		
LED	SFH 4180S	
FWHM / FWTM	8.0° / 20.0°	
Efficiency	%	
LEDs/each optic	1	
Light colour	IR	
Required compone		
SEOUL SEOUL SEMICONDUCTOR		90 ⁺ 90 ⁺
LED	Z5M3	
FWHM / FWTM	18.0° / 38.0°	75
Efficiency	86 %	
Peak intensity	5.6 cd/lm	
LEDs/each optic	1	
Light colour	White	a. 220 a.
Required compone		
		4500
		30° 15° 0° 15°



CREE ≑		90* 90*
LEDS	XB-D	
FWHM / FWTM	18.0° / 34.0°	75°
Efficiency	88 %	
Peak intensity	7.6 cd/lm	60. / 60.
	1	
LEDs/each optic Light colour	White	45
Required components:	Wille	
Required components.		
		6130
		30° 8000 30° 30°
		90° 90°
LED	XQ-E HI	\land
FWHM / FWTM	11.0° / 23.0°	75.
Efficiency	91 %	
Peak intensity	18.5 cd/lm	60° 6400 6400
LEDs/each optic	1	
Light colour	White	gr et
Required components:	white	12800
		30° 19200 30° 30°
	DS	80°
		99 ³
LED	LUXEON 2835 Line	<u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u>
LED FWHM / FWTM	LUXEON 2835 Line 15.0° / 31.0°	9°
LED FWHM / FWTM Efficiency	LUXEON 2835 Line 15.0° / 31.0° 96 %	9°
LED FWHM / FWTM Efficiency Peak intensity	LUXEON 2835 Line 15.0° / 31.0°	9°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm	90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1	90° 0° 31° 20° 0° 31° 22°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1	gr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1	gr
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1	9 ³ 9 ³ 9 ⁴ 9 ⁵ 9 ⁵ 9 ⁶ 9 ⁶ 9 ⁶ 9 ⁷ 9 ⁶
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1	9 ³ 9 ³ 9 ⁴ 9 ⁵ 9 ⁵ 9 ⁶ 9 ⁶ 9 ⁶ 9 ⁷ 9 ⁶
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1	30°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1 White	200 00 10° 10° 10° 10° 10° 10° 10° 10° 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1 White Duris E 2835	200 00 10° 10° 10° 10° 10° 10° 10° 10° 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1 White	200 00 10° 10° 10° 10° 10° 10° 10° 10° 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OBSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1 White Duris E 2835 17.0° / 34.0°	200 00 10° 10° 10° 10° 10° 10° 10° 10° 10
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1 White Duris E 2835 17.0° / 34.0° 92 %	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1 White Duris E 2835 17.0° / 34.0° 92 % 7.6 cd/lm 1	220 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1 White Duris E 2835 17.0° / 34.0° 92 % 7.6 cd/lm	804 900 902 304 903 904 904 903 904 904 903 904 904 905 904
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1 White Duris E 2835 17.0° / 34.0° 92 % 7.6 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1 White Duris E 2835 17.0° / 34.0° 92 % 7.6 cd/lm 1	220 90 90 90 90 90 90 90 90 90 9
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Optic Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	LUXEON 2835 Line 15.0° / 31.0° 96 % 9.5 cd/lm 1 White Duris E 2835 17.0° / 34.0° 92 % 7.6 cd/lm 1	



OSRAM Opto Semiconductors		90* 90*
LED	Duris S5 (2 chip)	
FWHM / FWTM	17.0° / 33.0°	73'
Efficiency	92 %	
Peak intensity	8 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	er
Required components:		
		6430
		300 300
		15° 0° 15°
OSRAM Opto Semiconductors		90* 90*
LED	OSCONIQ P 3030	
FWHM / FWTM	12.0° / 26.0°	23. 25.
Efficiency	91 %	605 604
Peak intensity	13.2 cd/lm	$(\land \land$
LEDs/each optic	1	
Light colour	Blue	\$5° \$5°
Required components:		350
		36° 30°
1		
		15 [°] 0 ⁶ 35 [°]
OSRAM Opto Semiconductors		55 ⁴ 0 ⁴ 12 ⁴
OSRAM Opto Semiconductors LED	OSLON Signal	55* 55*
Opto Semiconductors	OSLON Signal 12.0° / 26.0°	
Opto Semiconductors		55* 55*
Opto Semiconductors LED FWHM / FWTM	12.0° / 26.0°	55* 55*
opto Semiconductors LED FWHM / FWTM Efficiency	12.0° / 26.0° 92 %	99* 99* 75* 72* 99* 6*
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	12.0° / 26.0° 92 % 14.4 cd/lm	99* 99* 75* 72* 99* 6*
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 26.0° 92 % 14.4 cd/lm 1	95° 9° 96° 9° 96° 0° 000 0° 000 0°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 26.0° 92 % 14.4 cd/lm 1	95° 9° 96° 9° 96° 0° 000 0° 000 0°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 26.0° 92 % 14.4 cd/lm 1	95° 9° 96° 9° 96° 0° 000 0° 000 0°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 26.0° 92 % 14.4 cd/lm 1	95° 9° 96° 9° 96° 0° 000 0° 000 0°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	12.0° / 26.0° 92 % 14.4 cd/lm 1	95° 95° 95° 95° 95° 95° 95° 95° 95° 95°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components:	12.0° / 26.0° 92 % 14.4 cd/lm 1 Blue	99° 90° 90° 90° 90° 90° 90° 90° 90° 90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED	12.0° / 26.0° 92 % 14.4 cd/lm 1 Blue OSLON Square Flat	200 200 200 200 200 200 200 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM	12.0° / 26.0° 92 % 14.4 cd/lm 1 Blue OSLON Square Flat 12.0° / 24.0°	95° 95° 95° 95° 95° 95° 95° 95° 95° 95°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency	12.0° / 26.0° 92 % 14.4 cd/lm 1 Blue OSLON Square Flat 12.0° / 24.0° 91 %	200 200 200 200 200 200 200 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity	12.0° / 26.0° 92 % 14.4 cd/lm 1 Blue OSLON Square Flat 12.0° / 24.0° 91 % 14.5 cd/lm	200 200 200 200 200 200 200 200
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 26.0° 92 % 14.4 cd/lm 1 Blue OSLON Square Flat 12.0° / 24.0° 91 % 14.5 cd/lm 1	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 26.0° 92 % 14.4 cd/lm 1 Blue OSLON Square Flat 12.0° / 24.0° 91 % 14.5 cd/lm	
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDS/each optic Light colour Required components: OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 26.0° 92 % 14.4 cd/lm 1 Blue OSLON Square Flat 12.0° / 24.0° 91 % 14.5 cd/lm 1	000 000 000
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 26.0° 92 % 14.4 cd/lm 1 Blue OSLON Square Flat 12.0° / 24.0° 91 % 14.5 cd/lm 1	000 000 000
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 26.0° 92 % 14.4 cd/lm 1 Blue OSLON Square Flat 12.0° / 24.0° 91 % 14.5 cd/lm 1	000 000 000
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: OSSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	12.0° / 26.0° 92 % 14.4 cd/lm 1 Blue OSLON Square Flat 12.0° / 24.0° 91 % 14.5 cd/lm 1	



OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON SSL 80 12.0° / 31.0° 90 % 9.9 cd/lm 1 Far Red		200 00 00 00 00 00 00 00 00 00 00 00 00
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSTAR Projection Compact (KW.CSLNM1.TG) 12.0° / 24.0° 92 % 16.9 cd/lm 1 White		94* 95* 95* 96* 96* 96* 96* 96* 96* 96* 96* 96* 97* 97* 97* 97* 97* 97* 97* 97* 97* 97
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency LEDS/each optic Light colour Required components:	SFH 4770S 10.0° / 22.0° 91 % 1 IR	Polar intensity graph	25° 0° 12° 0° 12° 0° 12° 0° 12° 0° 0° 0° 0° 0° 0° 0° 0° 0° 0
SAMSUN LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LH181B 16.0° / 30.5° 92 % 9.2 cd/lm 1 White		200 00 00 000 00 000 000 00 000 00 000



		90° A 95°
LED	Z8Y15	75
FWHM / FWTM	13.0° / 25.0°	37
Efficiency	90 %	
Peak intensity	13.8 cd/lm	
LEDs/each optic	1	
Light colour	White	a, a,
Required component	S:	907.
		15° 0° 15°