

# PRODUCT DATASHEET CA11052\_TINA2-O

# TINA2-O

 ${\sim}35^\circ$  + 15° oval beam. Assembly with holder and installation tape.

### **SPECIFICATION:**

Dimensions	Ø 16.1 mm
Height	9.7 mm
Fastening	tape
ROHS compliant	yes 🛈



### **MATERIALS:**

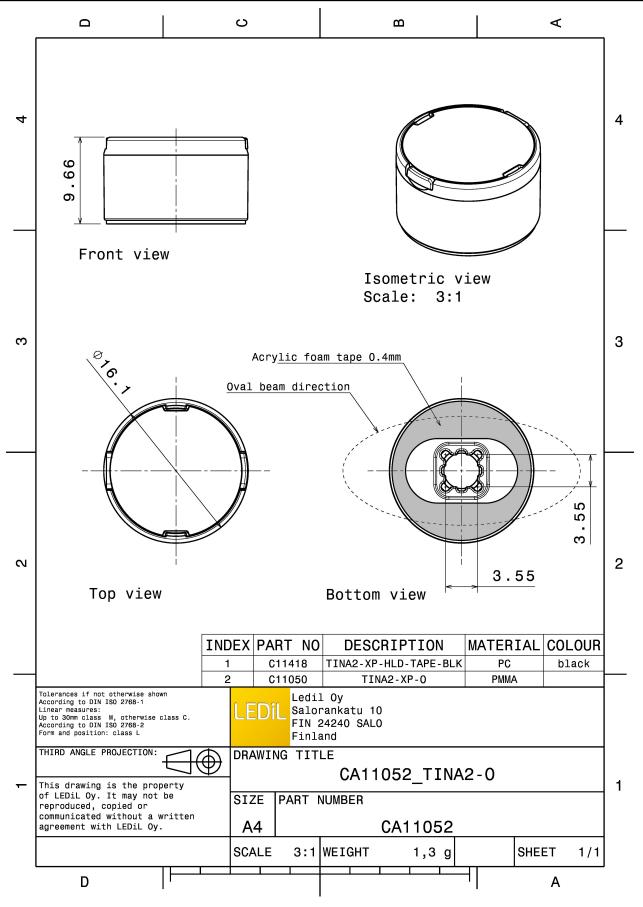
Component	Туре	Material	Colour	Finish
TINA2-XP-O	Single lens	PMMA	clear	
TINA2-XP-HLD-TAPE-BLK	Holder	PC	black	
TINA-TAPE3	Tape	Acrylic foam	black	

### **ORDERING INFORMATION:**

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11052_TINA2-O	Single lens	4140	230	230	8.3
» Box size: 451 x 241 x 298 mm					



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



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

		30* 90*
LED	XP-E	
FWHM / FWTM	32.0 + 14.0° / 52.0 + 32.0°	75°
Efficiency	87 %	
Peak intensity	4.4 cd/lm	
LEDs/each optic	1	
Light colour	White	95°
Required compone		3200
		30° 30°
		15° 0° 15°
		90* 90*
LED	XP-E-HEW	
FWHM / FWTM	34.0 + 16.0° / 58.0 + 36.0°	800
Efficiency	%	60°
Peak intensity	3.4 cd/lm	150
LEDs/each optic	1	
Light colour	White	er 200 er
Required compone	nts:	
		$\times$ / $\times$ / $\times$ /
		30* 4000 36*
		15° 0° 15°
		90° 90°
LED	XP-E2	74*
FWHM / FWTM	34.0 + 14.0° / 56.0 + 30.0°	
Efficiency	86 %	60° 60°
Peak intensity	5.1 cd/lm	
LEDs/each optic	1	
Light colour	White	57° 67°
Required compone	nts:	
		4634
		30° 30° 30°
CREE 🚖		
LEDS		90* 90*
LED	XP-G	73*
FWHM / FWTM	35.0 + 16.0° / 58.0 + 35.0°	
Efficiency	87 %	50° 50°
Peak intensity	3.9 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required compone	nts:	300
1		
		34° 35° 35°



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

		90*
LED	XP-G2	
FWHM / FWTM	34.0 + 16.0° / 57.0 + 34.0°	731
Efficiency	87 %	
Peak intensity	4 cd/Im	60 <sup></sup> 1600 B0 <sup>-</sup>
LEDs/each optic	1	
Light colour	White	gy
Required compone		
		15° 0° 15°
		50° 50°
LED	XT-E	
FWHM / FWTM	35.0 + 16.0° / 58.0 + 36.0°	73*
Efficiency	85 %	
Peak intensity	3.8 cd/lm	B0 <sup>-</sup>
LEDs/each optic	1	1590
Light colour	White	er
Required compone		2430
		220
		15% 0% 15%
SAMSI	UNG	90* 90*
LED	LH181A	
FWHM / FWTM	33.0 + 17.0° / 59.0 + 38.0°	75* 75*
Efficiency	72 %	
Peak intensity	3.1 cd/lm	
LEDs/each optic	1	1500
Light colour	White	er
Required compone	ents:	
		2430
		30° 3200 30°
		15% 0% 35%



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

		90° 90°
LED	XP-G2 HE	
FWHM / FWTM	39.0 + 18.0° / 68.0 + 39.0°	75*
Efficiency	77 %	
Peak intensity	2.8 cd/lm	60° 60°
LEDs/each optic	1	
Light colour	White	gg*
Required components:		
		2430
		15° 0° 15°
COMILED	DS Contraction of the second se	90* 90*
LED	LUXEON C	78*
FWHM / FWTM	38.0 + 14.0° / 63.0 + 29.0°	
Efficiency	84 %	60°
Peak intensity	4.1 cd/lm	1600
LEDs/each optic	1	
Light colour	White	45°
Required components:		
		369
OSRAM		
Opto Semiconductors		
LED FWHM / FWTM	OSLON Square CSSRM2/CSSRM3 38.0 + 16.0° / 64.0 + 33.0°	
Efficiency		
Linciency		
Poak intensity	89 %	60* V0*
Peak intensity	3.9 cd/lm	90°
LEDs/each optic	3.9 cd/lm 1	
LEDs/each optic Light colour	3.9 cd/lm	60° 00° 500 00° 2000 00°
LEDs/each optic	3.9 cd/lm 1	etet
LEDs/each optic Light colour	3.9 cd/lm 1	
LEDs/each optic Light colour	3.9 cd/lm 1	9 300 300
LEDs/each optic Light colour Required components:	3.9 cd/lm 1 White	et
LEDs/each optic Light colour	3.9 cd/lm 1 White	200 00 300 300 300 300
LEDs/each optic Light colour Required components:	3.9 cd/lm 1 White	
LEDs/each optic Light colour Required components: SAMSUN LED	3.9 cd/lm 1 White	
LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM	3.9 cd/lm 1 White <b>IG</b> LM302D 41.0 + 18.0° / 66.0 + 36.0°	<u>99</u> * <u>600</u> <u>97</u> * <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u> <u>100</u>
LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency	3.9 cd/lm 1 White LM302D 41.0 + 18.0° / 66.0 + 36.0° 87 %	<u>9</u> <sup>3</sup> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u>
LEDs/each optic Light colour Required components: SAMSUN LED FWHM / FWTM Efficiency Peak intensity	3.9 cd/lm 1 White <b>IG</b> LM302D 41.0 + 18.0° / 66.0 + 36.0°	<u>9</u> <sup>3</sup> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u> <u>30</u>
LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	3.9 cd/lm 1 White LM302D 41.0 + 18.0° / 66.0 + 36.0° 87 % 3.3 cd/lm	200 200 200 200 200 200 200 200 200 200
LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	3.9 cd/lm 1 White LM302D 41.0 + 18.0° / 66.0 + 36.0° 87 % 3.3 cd/lm 1	800 800 300 300 300 300 300 300
LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	3.9 cd/lm 1 White LM302D 41.0 + 18.0° / 66.0 + 36.0° 87 % 3.3 cd/lm 1	
LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	3.9 cd/lm 1 White LM302D 41.0 + 18.0° / 66.0 + 36.0° 87 % 3.3 cd/lm 1	
LEDs/each optic Light colour Required components: <b>SAMSUN</b> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	3.9 cd/lm 1 White LM302D 41.0 + 18.0° / 66.0 + 36.0° 87 % 3.3 cd/lm 1	



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

SEOUL SEMICONDUCTOR		95°
LED FWHM / FWTM	Z5 41.0 + 15.0° / 62.0 + 29.0°	72 77
Efficiency	90 %	61 <sup>4</sup>
Peak intensity	4.2 cd/lm	
LEDs/each optic	1	
Light colour	White	24. 25.
Required components	5:	200 200 200 200



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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.

### PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

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