

# PRODUCT DATASHEET CA18102\_TINA-Y-RS

## **TINA-Y-RS**

~14° spot beam. Assembly with holder, installation tape and pins.

#### **SPECIFICATION:**

Dimensions	Ø 16.1 mm
Height	10 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



#### **MATERIALS:**

Component TINA-Y-RS TINA-Y-HLD TINA-Y-TAPE

Туре	
Single lens	
Holder	
Таре	

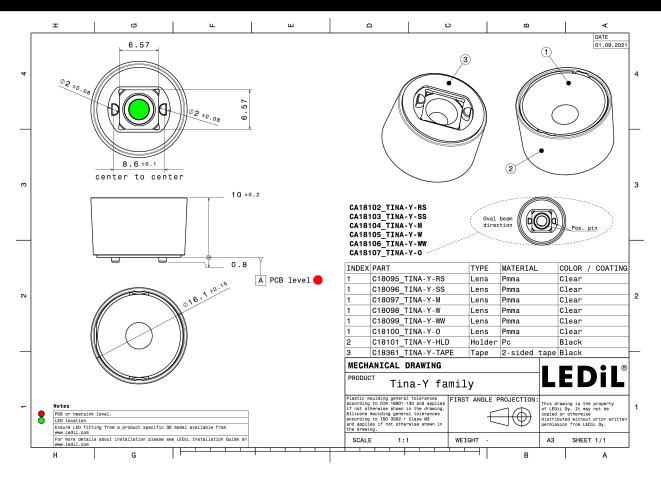
Material	Colour	Finish
PMMA	clear	gloss
PC	black	gloss
Acrylic foam		

#### **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA18102_TINA-Y-RS	3900	300	300	5.6
» Box size: 476 x 273 x 197 mm				

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



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

		901 905
LEDs EWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G3 18.0° / 35.0° 81 % 5.9 cd/lm 1 White mts:	
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	XP-G4 17.0° / 31.0° 87 % 7.7 cd/lm 1 White ints:	
ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required compone	NVSW719AC 16.0° / 29.0° 88 % 8.8 cd/lm 1 White	



CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XD16 Premium 12.0° / 24.0° 86 % 13.4 cd/lm 1 White	22, 6, 72, 9, 24, 60, 64, 60, 24, 60, 24, 60, 24, 60, 25, 90, 24, 60, 25, 90, 26, 90,
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XE-G 14.0° / 26.0° 87 % 10.3 cd/lm 1 White	30.         32.         6.         32.         34.           20.         000         000         00.         00.           60.         000         000         00.         00.           80.         000         000         00.         00.           80.         000         000         00.         00.           80.         000         000         00.         00.
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP35.2 HD 30.0° / 52.0° 76 % 2.5 cd/lm 1 White	24 200 21 25 20 26 20 27 25 28 25 29 25 20 20 20 20 20 20 20 20 20 20 20
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP35.2 HI 22.0° / 44.0° 84 % 3.9 cd/lm 1 White	100         100           90         90           90         90           90         90           90         90           90         90



CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XHP50.3 HI 24.0° / 48.0° 82 % 3.4 cd/lm 1 White	200 200 200 200 200 200 200 200 200 200
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XM-L RGBW (XMLDCL HD) 30.0° / 49.0° 85 % 2.8 cd/lm 1 RGBW	2100 2100 200 200 200 200 200 200 200 20
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XM-L RGBW (XMLDCL HI) 20.0° / 37.0° 85 % 5.3 cd/lm 1 RGBW	50° 50° 61° 50° 50° 50° 50° 50° 50° 50° 50° 50° 50
CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XM-L3 21.0° / 40.0° 81 % 4.3 cd/lm 1 White	51 <sup>4</sup> 51 <sup>4</sup> 51 <sup>5</sup> 51



		90°
LED	XP-E2	73'
FWHM / FWTM	11.0° / 22.0°	
Efficiency	88 %	60*
Peak intensity	16 cd/lm	ecco -
LEDs/each optic	1	
Light colour	White	gr of
Required components:		
		.30°
		90° 90°
LED	XP-G2	
FWHM / FWTM	15.0° / 28.0°	75
Efficiency	88 %	
Peak intensity	9.6 cd/lm	
LEDs/each optic	1	$  \times / /     \wedge \times  $
Light colour	White	gi de
Required components:		600
		30* 30*
		15° 0° 15°
		90* 90*
CREE ÷ LEDs	XP-P	90 <sup>4</sup> 90 <sup>4</sup>
	XP-P 10.0° / 20.0°	5 <sup>3</sup>
LED		59° 50° 33° 50° 600 600 60°
LED FWHM / FWTM Efficiency Peak intensity	10.0° / 20.0°	99 <sup>4</sup> 99 <sup>7</sup> 25 <sup>5</sup> 59 <sup>7</sup> 69 <sup>4</sup> 600 60 <sup>2</sup>
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 20.0° 89 % 20.4 cd/lm 1	59° 59° 60°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm	5 <sup>3</sup> 5 <sup>3</sup> 5 <sup>3</sup> 5 <sup>3</sup> 5 <sup>3</sup> 5 <sup>3</sup> 6 <sup>10</sup> 6 <sup>10</sup> 6
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 20.0° 89 % 20.4 cd/lm 1	51 <sup>-</sup> 51 <sup>-</sup> 5
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1	5° 5° 5° 1100 5° 5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1	9)* 9)* 35* 60* 600 600 60* 60* 60* 60* 60
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1	99° 99° 99° 99° 99° 99° 99° 99° 99° 99°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 20.0° 89 % 20.4 cd/lm 1 White	30*         30*           30*         30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	10.0° / 20.0° 89 % 20.4 cd/lm 1 White	39         90           39         90           39         90           39         100           50         600           600         600           90         600
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED ED FWHM / FWTM	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0°	39*         39*           39*         39*           39*         30*           39*         30*
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE LED FWHM / FWTM Efficiency	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 %	95° 97° 75° 75° 75° 75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm	
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm 1	95° 97° 75° 75° 75° 75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm	95° 97° 75° 75° 75° 75°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: Required components: LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm 1	5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm 1	5°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: CREE ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour	10.0° / 20.0° 89 % 20.4 cd/lm 1 White XQ-E HD 12.0° / 22.0° 87 % 14.8 cd/lm 1	5. 605 75 75 75 75 75 75 75 75 75 75 75 75 75



CREE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	XQ-E HI 8.0° / 18.0° 87 % 25.6 cd/lm 1 White	20° - 20° -
	S	90° 90°
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Round LES 28.0° / 56.0° 81 % 2.5 cd/lm 1 White	30 <sup>1</sup> 20
CUMILEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON 5050 Square LES 26.0° / 56.0° 80 % 2.5 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50°
CUMILEE LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	LUXEON C 12.0° / 24.0° 79 % 12.3 cd/lm 1 White	20° 00° 00° 20° 00°



LED LUXEON CZ FWHM 10.0° / 13.0° Efficiency 88 % Peak interity 21.4 cd/lm LEDs/each optic 1 Light colour Red Required components: ED LUXEON HL2X FWHM 20.0° / 32.0° Efficiency 87 % Peak interity 6.4 cd/lm LEDs/each optic 1 Light colour While Required components: ED LUXEON Rubix FWHM 50.0° / 18.0° Efficiency 89 % Peak interity 8.0° / 18.0° Efficiency 1 LED LUXEON Rubix FWHM 500 / 18.0° Efficiency 89 % Peak interity 8.0° / 18.0° Efficiency 81 % Peak interity 8.0° / 18.0° Efficiency 1 LED LUXEON Rubix FWHM 500 / 18.0° Efficiency 81 % Peak interity 8.0° / 18.0° Efficiency 81 % Peak interity 8.0° / 18.0° Efficiency 81 % Peak interity 82.01 cd/lm LEDs/each optic 1 Light colour Blue Required components:	
Efficiency 88 % Peak intensity 21.4 cd/m LEDs/ach optic 1 Light colour Red Required components: LED LUXEON HL2X FVHM / FVTM 20.0° / 32.0° Efficiency 87 % Peak intensity 6.4 cd/m LEDs/ach optic 1 Light colour White Required components: LED LUXEON Rubix FVHM / FVTM 8.0° / 18.0° Efficiency 99 % Peak intensity 21.1 cd/m LEDs/ach optic 1 Light colour 4 Required components: LED LUXEON Rubix FVHM / FVTM 8.0° / 18.0° Efficiency 99 % Peak intensity 21.1 cd/m LEDs/ach optic 1 Light colour 4 Required components: LED LUXEON Rubix FVHM / FVTM 8.0° / 18.0° Efficiency 99 % Peak intensity 21.1 cd/m LEDs/ach optic 1 Light colour 4 Light colour 4 Required components: LED LUXEON Rubix FVHM / FVTM 8.0° / 18.0° Efficiency 99 % Peak intensity 21.1 cd/m LEDs/ach optic 1 Light colour 4 Light colour	
Peak intensity       21.4 cd/lm         LEDs/each optic       1         Light colour       Red         Required components:       Image: Components:         Image: Components:       Image: Components: <th></th>	
LEDs/each optic 1 Light colour Red Required components: ELD LUXEON HL2X FVMHV / FWTM 20.0° / 32.0° Efficiency 87 % Peak intensity 6.4 cd/m LEDs/each optic 1 Light colour White Required components: ED LUXEON Rubix FVMHV / FWTM 8.0° / 18.0° Efficiency 89 % Peak intensity 26.1 cd/m LEDs/each optic 1 Light colour White Required components: ED LUXEON Rubix FVMHV / FWTM 8.0° / 18.0° Efficiency 89 % Peak intensity 26.1 cd/m LEDs/each optic 1 Light colour Blue	
Light colour Red Required components: LED LUXEON HL2X FWHM / FWTM 20.0° / 32.0° Efficiency 87 % Peak intensity 6.4 cd/lm LEDs/each optic 1 Light colour White Required components: LED LUXEON Rubix FWHM / FWTM 8.0° / 18.0° Efficiency 89 % Peak intensity 26.1 cd/lm LEDs/each optic 1 Light colour Blue	
Required components:	
Image: Constraint of the second se	
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LEDLUXEON HL2XFWHM / FWTM20.0° / 32.0°Efficiency87 %Peak intensity6.4 cd/lmLEDs/each optic1Light colourWhiteRequired components:ViniteCUMILEDSLEDLUXEON RubixFWHM / FWTM8.0° / 18.0°Efficiency89 %Peak intensity26.1 cd/lmLED1Light colour1Blue1	
LED       LUXEON HL2X         FWHM / FWTM       20.0° / 32.0°         Efficiency       87 %         Peak intensity       6.4 cd/lm         LEDs/each optic       1         Light colour       White         Required components:       Vite <b>EUMILEEDS</b> LUXEON Rubix         FWHM / FWTM       8.0° / 18.0°         Efficiency       89 %         Peak intensity       26.1 cd/lm         LEDs/each optic       1         Light colour       18.0°	$\langle \langle \rangle$
FWHM / FWTM       20.0° / 32.0°         Efficiency       87 %         Peak intensity       6.4 cd/lm         LEDs/each optic       1         Light colour       White         Required components:	$\langle \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$
Peak intensity       6.4 cd/lm         LEDs/each optic       1         Light colour       White         Required components:       Image: Components         Image: Components:       Image: Components         LED       LUXEON Rubix         FWHM / FWTM       8.0° / 18.0°         Efficiency       89 %         Peak intensity       26.1 cd/lm         LEDs/each optic       1	$\mathbb{N}$
LEDs/each optic       1         Light colour       White         Required components:       Image: Component State Sta	$1 \setminus X$
Light colour       White         Required components:       Image: Component State Stat	
Required components:       Image: Component State	H
EED       LUXEON Rubix         FWHM / FWTM       8.0° / 18.0°         Efficiency       89 %         Peak intensity       26.1 cd/lm         LEDs/each optic       1         Light colour       Blue	
EED       LUXEON Rubix         FWHM / FWTM       8.0° / 18.0°         Efficiency       89 %         Peak intensity       26.1 cd/lm         LEDs/each optic       1         Light colour       Blue	$\square$
LED       LUXEON Rubix         FWHM / FWTM       8.0° / 18.0°         Efficiency       89 %         Peak intensity       26.1 cd/lm         LEDs/each optic       1         Light colour       Blue	
LED       LUXEON Rubix         FWHM / FWTM       8.0° / 18.0°         Efficiency       89 %         Peak intensity       26.1 cd/lm         LEDs/each optic       1         Light colour       Blue	
LED       LUXEON Rubix         FWHM / FWTM       8.0° / 18.0°         Efficiency       89 %         Peak intensity       26.1 cd/lm         LEDs/each optic       1         Light colour       Blue	
LED     LUXEON Rubix       FWHM / FWTM     8.0° / 18.0°       Efficiency     89 %       Peak intensity     26.1 cd/lm       LEDs/each optic     1       Light colour     Blue	15*
FWHM / FWTM     8.0° / 18.0°       Efficiency     89 %       Peak intensity     26.1 cd/lm       LEDs/each optic     1       Light colour     Blue	
Efficiency     89 %       Peak intensity     26.1 cd/lm       LEDs/each optic     1       Light colour     Blue	2-1-
Peak intensity     26.1 cd/lm       LEDs/each optic     1       Light colour     Blue	
LEDs/each optic 1 Light colour Blue	
Light colour Blue	
Required components:	
30" 12" 0"	15°
V LUMILEDS	
LED LUXEON Z ES	
FWHM / FWTM 12.0° / 24.0°	
Efficiency 87 %	
Peak intensity 13.1 cd/lm	
LEDs/each optic 1	X
Light colour White	
Required components:	



	s	90 <sup>4</sup>
LED	SST-20	75-
FWHM / FWTM	12.0° / 26.0°	
Efficiency	86 %	50°
Peak intensity	11.8 cd/lm	
LEDs/each optic	1	600
Light colour	White	gr dr
Required components:		
		800
		30' 1300 130 30'
<b>Μ</b> ΝΙCΗΙΛ		35' 35'
LED	NF2W757H	
FWHM / FWTM	18.0° / 34.0°	75
Efficiency	89 %	200
Peak intensity	6.9 cd/lm	
LEDs/each optic	1	
Light colour	White	gr
Required components:		400
		600
		25 0, 15,
MICHIΛ		
LED	NV4WB35AM	
FWHM / FWTM	24.0° / 46.0°	
Efficiency	86 %	
Peak intensity	3.7 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		
~		
<b>ΜΝΙCΗΙΛ</b>		50* · · · · · · · · · · · · · · · · · · ·
LED	NVSW219F	75
FWHM / FWTM	19.0° / 32.0°	
Efficiency	87 %	
Peak intensity	6.5 cd/lm	
LEDs/each optic	1	
Light colour	White	
Required components:		609



ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	NVSxE21A 14.0° / 32.0° 80 % 7.6 cd/lm 1 White	50° 50° 50° 50° 50° 50° 50° 50° 50° 50°
OSDAM		135 <sup>°</sup> 0 <sup>0</sup> 25°
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	Duris S5 (2 chip) 15.0° / 33.0° 88 % 7.8 cd/lm 1 White	12.0         04         12.0           20.1         1000         10.0           64.         1000         100           65.         1000         100           1000         1000         100
OSRAM		
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square CSSRM2/CSSRM3 12.0° / 23.0° 87 % 15.3 cd/lm 1 Far Red	25° 26° 27° 27° 25° 26° 27° 27° 25° 26° 27° 27° 25° 26° 27° 27° 25° 27° 27° 27°
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square CSSRM2/CSSRM3 17.0° / 30.0° 87 % 7.8 cd/lm 1 White	To,         Or,         To,           20,         900         62,           22,         900         25,           26,         900         25,           26,         200         25,           26,         200         25,           26,         200         25,           26,         200         25,           26,         200         25,



OSRAM			
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON Square CSSRM2/CSSRM3 15.0° / 27.0° 88 % 10 cd/lm 1 White		20- 20- 25- 60- 250 60- 250 60- 250 60- 250 60- 250 60- 250 60- 250 60- 250 60- 25- 55- 60- 55- 60- 55- 55- 60- 55- 55- 55- 55- 55- 55- 55- 5
OSRAM			90° 90°
opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	OSLON SSL 150 11.0° / 22.0° 88 % 17.2 cd/lm 1 White		75-75-75-
OSRAM Opto Semiconductors		Polar intensity graph	26
LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components:	SFH 4715AS 16.0° / 30.0° 86 % 8.5 cd/lm 1 IR		200 00 00 201 00 000 00 000 000 00 000 00 000
OSRAM Opto Semiconductors LED FWHM / FWTM Efficiency LEDs/each optic Light colour Required components:	SFH 4716S 11.0° / 22.0° 86 % 1 IR	Polor intensity graph	No.



OSRAM Opto Semiconductors		Polar intensity graph	50* 50* 75* 50*
LED	SFH 4725AS		1000
FWHM / FWTM	18.0° / 32.0°		60° 60°
Efficiency	87 %		300
LEDs/each optic	1		gr.
Light colour	IR		
Required components:			90 ED P
OSRAM Opto Semiconductors		Polar intensity graph	50 <sup>4</sup> 50 <sup>4</sup>
			21 27
LED	SFH 4725S		
FWHM / FWTM	13.0° / 28.0°		50° 50°
Efficiency	87 %	20.0	
LEDs/each optic	1		X ( X )
Light colour Required components:	IR		
SAMSUN	IG		90 <sup>4</sup> 90 <sup>4</sup> 90 <sup>4</sup>
LED	LH351B		
FWHM / FWTM	20.0° / 34.0°		25
Efficiency	86 %		500 50°
Peak intensity	6.2 cd/lm		
LEDs/each optic	1		300
Light colour	White		95 <sup>4</sup>
Required components:			400
			30 <sup>-</sup> 12 <sup>-</sup> 12 <sup>-</sup> 0 <sup>-</sup> 0 <sup>-</sup> 0 <sup>-</sup> 12 <sup>-</sup> 0 <sup>-</sup>