

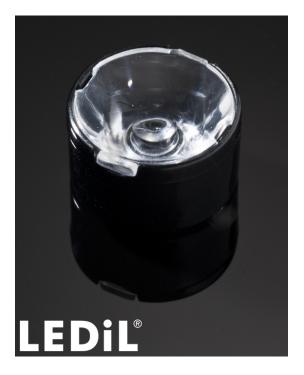
PRODUCT DATASHEET CA11020_TINA2-RS

TINA2-RS

~14° spot beam optimized for Nichia NCSxx19. Assembly with holder, installation tape and location pins.

TECHNICAL SPECIFICATIONS:

Dimensions	Ø 16.1 mm
Height	9.3 mm
Fastening	tape, pin
ROHS compliant	yes 🛈



MATERIAL SPECIFICATIONS:

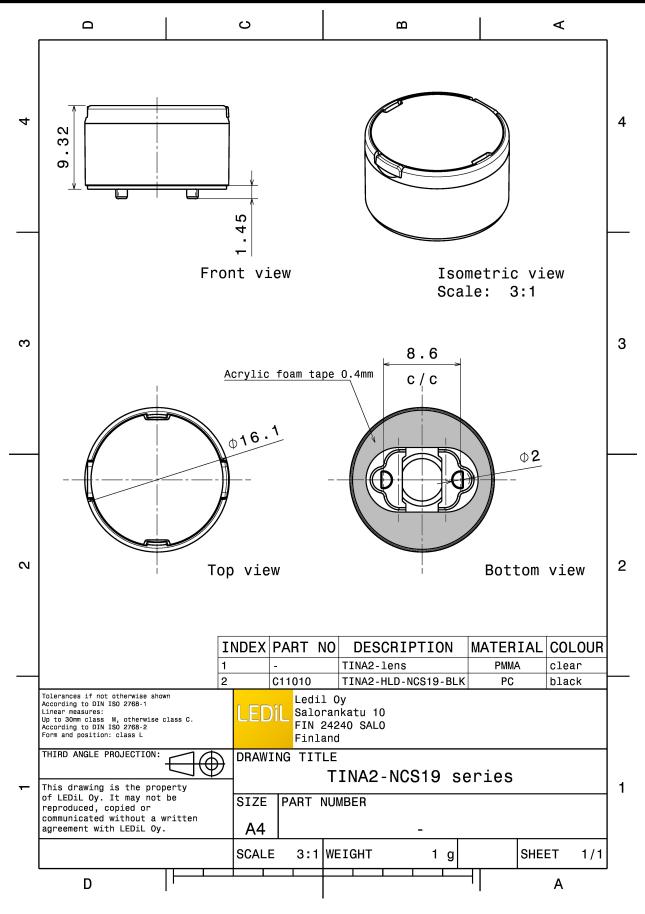
Component	Туре	Material	Colour	Finish
TINA2-RS	Single lens	PMMA	clear	
TINA2-HLD-NCS19-BLK	Holder	PC	black	
TINA-TAPE3	Таре	Acrylic foam	black	

ORDERING INFORMATION:

Component		Qty in box	MOQ	MPQ	Box weight (kg)
CA11020_TINA2-RS	Single lens	4140		230	0.0
» Box size: 451 x 241 x 298 mm					



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



PHOTOMETRIC DATA (MEASURED):

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LED	NCSxx19A		
FWHM / FWTM	13.0° / 26.0°		
Efficiency	93 %		
Peak intensity	10.7 cd/lm		
LEDs/each optic	1		
Light colour	White		
Required compone	ents:		
รกทรเ	ING	90*	
LED	LH181A		
FWHM / FWTM	13.0° / 31.0°	751	
Efficiency	82 %		
Peak intensity	8.7 cd/lm	604	3200
LEDs/each optic	1		$<$ $/$ $/$ \wedge \sim
Light colour	White		
Required compone	ents:		
		30*	
			15° 9830 15°
<u> </u>	JNG	90°	Δ
LED	LH181B		
FWHM / FWTM	14.0° / 31.0°	- 17	
Efficiency	89 %	ee	
Peak intensity	9.4 cd/lm		$\mathbb{Z} \neq \mathbb{Z}$
	1		$<$ / / \land \times
LEDs/each optic		924	
LEDs/each optic Light colour	White		
			600
Light colour			6132
Light colour			600



PHOTOMETRIC DATA (SIMULATED):

CUMILEDS LED LUXEON CZ FWHM / FWTM 12.0° / 25.0° Efficiency 92 % Peak intensity 16.1 cd/m LEDs/each optic 1 Light colour Red Required components: Image: Color of the color of	97 97 97 97 97 97 97 97 97 97 97 97 97 9
FWHM / FWTM 12.0° / 25.0° Efficiency 92 % Peak intensity 16.1 cd/lm LEDs/each optic 1 Light colour Red Required components: ************************************	177 - 167 177 - 177 177 - 177 - 177 177 - 177 - 177 - 177 177 -
LEDs/each optic 1 Light colour Red Required components: Image: Component State	13°
Light colour Red Required components:	12. 25. 26.
Required components: Image: Component State	
ELUMILEDS LED LUXEON HL1Z FWHM / FWTM 10.0° / 20.0° Efficiency 90 % Peak intensity 22.1 cd/lm LEDs/each optic 1 Light colour White	55°
LED LUXEON HL1Z FWHM / FWTM 10.0° / 20.0° Efficiency 90 % Peak intensity 22.1 cd/lm LEDs/each optic 1 Light colour White	12. 15.
LED LUXEON HL1Z FWHM / FWTM 10.0° / 20.0° Efficiency 90 % Peak intensity 22.1 cd/lm LEDs/each optic 1 Light colour White	10°
LED LUXEON HL1Z FWHM / FWTM 10.0° / 20.0° Efficiency 90 % Peak intensity 22.1 cd/lm LEDs/each optic 1 Light colour White	
LED LUXEON HL1Z FWHM / FWTM 10.0° / 20.0° Efficiency 90 % Peak intensity 22.1 cd/lm LEDs/each optic 1 Light colour White	
Efficiency 90 % Peak intensity 22.1 cd/lm LEDs/each optic 1 Light colour White	
Peak intensity 22.1 cd/lm LEDs/each optic 1 Light colour White	60*
LEDs/each optic 1 Light colour White	
Light colour White	
Required components:	1 1
30° 100	
345 227 04	
30 - 157 - 07	
	35°
	90*
LED NCSxE17A	
FWHM / FWTM 10.0° / 21.0°	20
Efficiency 92 %	
Peak intensity 20.5 cd/lm	$\wedge \vee \uparrow$
LEDs/each optic 1	
Light colour White	43.
Required components:	
30 ⁴	72., 30.,
	90*
LED NVSxE21A	
FWHM / FWTM 12.0° / 26.0°	15
Efficiency 90 %	
Peak intensity 13.3 cd/lm	
LEDs/each optic 1	
Light colour White	45*
Required components:	



PHOTOMETRIC DATA (SIMULATED):

ØNICHI Λ		90 ⁴ 90 ⁴
LED	NVSxx19A	
FWHM / FWTM	20.0° / 37.0°	
Efficiency	88 %	60 ⁴ 1600 60 ⁴
Peak intensity	5.6 cd/lm	
LEDs/each optic	1	
Light colour	White	g
Required components:		30 ⁻
OSRAM Opto Semiconductors		90 ⁴
LED	KW CSLPM1.TG	
FWHM / FWTM	12.0° / 25.0°	750 7200
Efficiency	92 %	
Peak intensity	14.7 cd/lm	610
LEDs/each optic	1	
Light colour	White	95 [°] 9500
Required components:		30° 32° 3800 32°
OSRAM Opto Semiconductors		50° A 50°
LED	OSLON SSL 120	75*
FWHM / FWTM	11.0° / 23.0°	
Efficiency	92 %	59° 60°
Peak intensity	16.8 cd/lm	
LEDs/each optic	1	
Light colour	Hyper Red	
Required components:		30 ⁻ 20 ⁻ 0 ⁻ 0 ⁻ 30 ⁻



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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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