

# PRODUCT DATASHEET CA11020\_TINA2-RS

# **TINA2-RS**

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

# **SPECIFICATION:**

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



# **MATERIALS:**

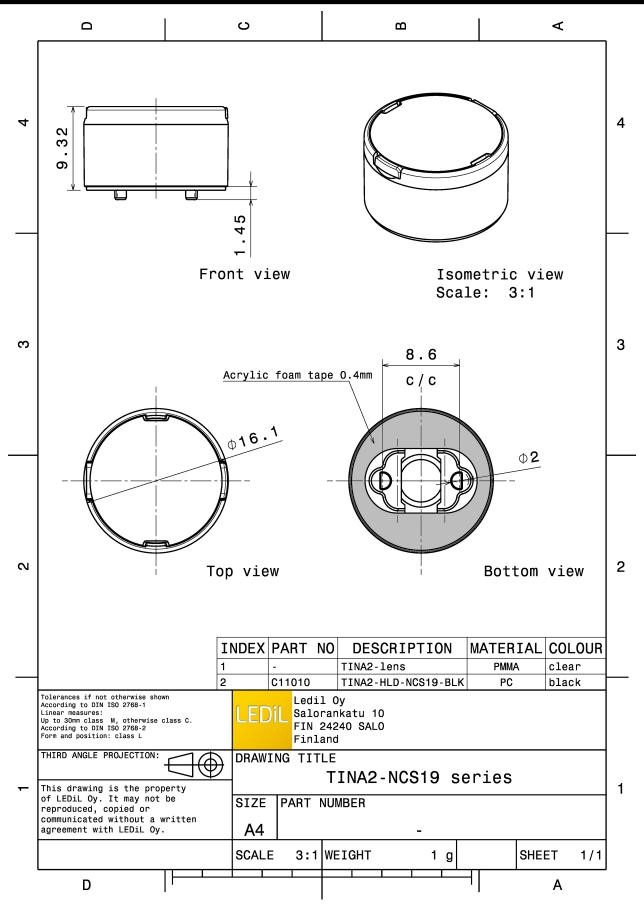
Component	Туре	Material	Colour	Finish	Length
TINA2-RS	Single lens	PMMA	clear		16.1
TINA2-HLD-NCS19-BLK	Holder	PC	black		16.1
TINA-TAPE3	Таре	Acrylic foam	black		16.0

# **ORDERING INFORMATION:**

Component	Qty in box	MOQ	MPQ	Box weight (kg)
CA11020_TINA2-RS	4140		230	0.0
» 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):**

# **Ø**ΝΙCΗΙΛ

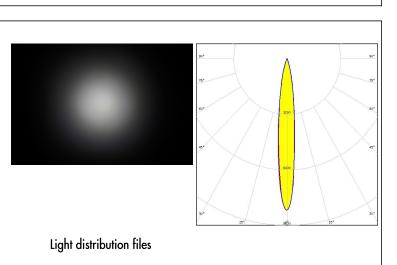
LED	NCSxx19A
FWHM / FWTM	13.0° / 26.0°
Efficiency	93 %
Peak intensity	10.7 cd/lm
LEDs/each optic	1
Light colour/type	White
Required compone	ents:

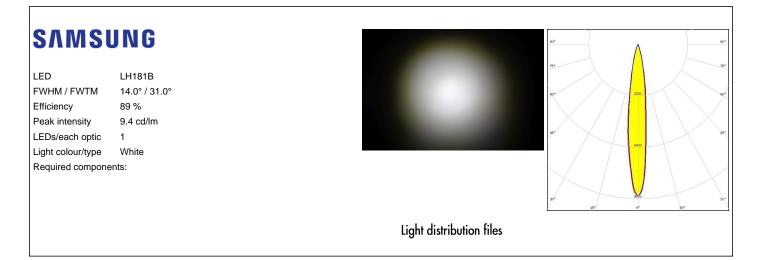


Light distribution files

# SAMSUNG

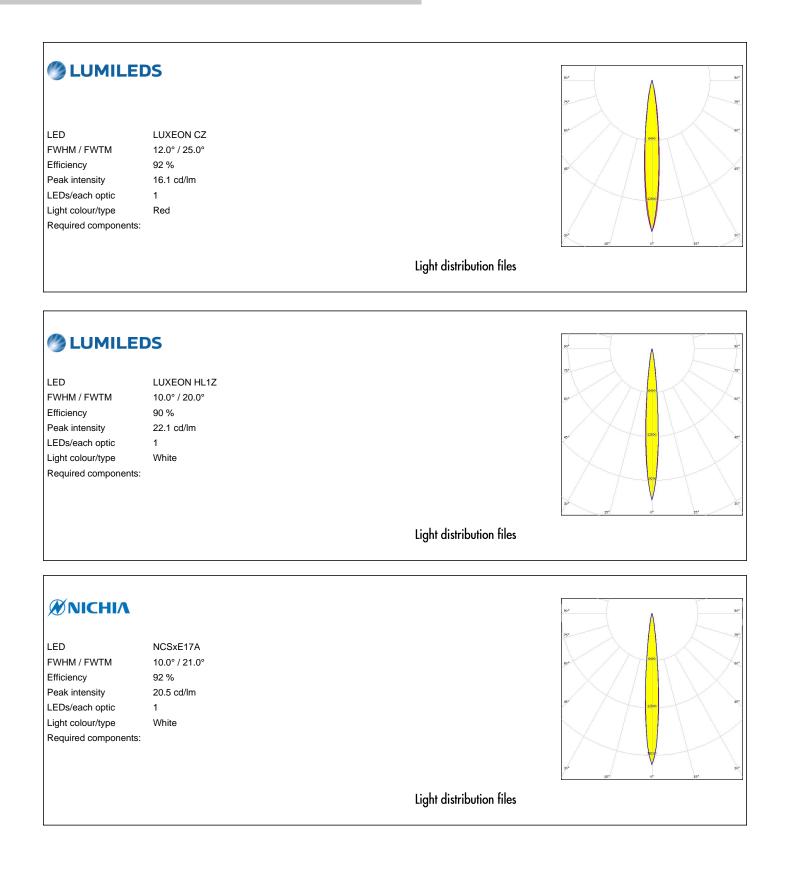
- LED LH FWHM/FWTM 13 Efficiency 82 Peak intensity 8. LEDs/each optic 1 Light colour/type W Required components:
- LH181A 13.0° / 31.0° 82 % 8.7 cd/lm 1 White







# **OPTICAL RESULTS (SIMULATED):**





# **OPTICAL RESULTS (SIMULATED):**

### **ΜΝΙCΗΙΛ** I FD NVSxE21A FWHM / FWTM 12.0° / 26.0° Efficiency 90 % Peak intensity 13.3 cd/lm LEDs/each optic 1 Light colour/type White Required components: Light distribution files **Μ**ΝΙCΗΙΛ I FD NVSxx19A 20.0° / 37.0° FWHM / FWTM Efficiency 88 % Peak intensity 5.6 cd/lm LEDs/each optic 1 Light colour/type White

Light distribution files

#### OSRAM Opto Semiconductors

LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components:

Required components:

OSLON Square CSSRM2/CSSRM3 16.0° / 34.0° 90 % 7.7 cd/lm 1 White



# **OPTICAL RESULTS (SIMULATED):**

OSRAM Opto Semiconductors			50°
LED	OSLON SSL 120		77
FWHM / FWTM	11.0° / 23.0°		605
Efficiency	92 %		6400
Peak intensity	16.8 cd/lm		
LEDs/each optic	1		45°
Light colour/type	Hyper Red		
Required components			
			30-
		tinka diasikasian filos	15 <sup>y</sup> 0 <sup>c</sup> 15 <sup>y</sup>
		Light distribution files	
			99*
Opto Semiconductors	OSRAM OSTAR Projection Compact (KW CSLPM1.TG)		3°-
Opto Semiconductors	OSRAM OSTAR Projection Compact (KW CSLPM1.TG) 12.0° / 25.0°		95* 252 63*
opto Semiconductors LED FWHM / FWTM			93- 25- 20-
opto Semiconductors LED FWHM / FWTM Efficiency	12.0° / 25.0°		50°
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity	12.0° / 25.0° 92 %		93* 93* 93* 95* 95* 950 950 950 950
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic	12.0° / 25.0° 92 % 14.7 cd/lm		g.
Opto Semiconductors LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type Required components	12.0° / 25.0° 92 % 14.7 cd/lm 1 White		g.
<sup>opto Semiconductors</sup> LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour/type	12.0° / 25.0° 92 % 14.7 cd/lm 1 White		g.



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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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# Local sales and technical support www.ledil.com/ where\_to\_buy

**Shipping locations** Poznan, Poland Hong Kong, China

### **Distribution Partners** www.ledil.com/ where\_to\_buy

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