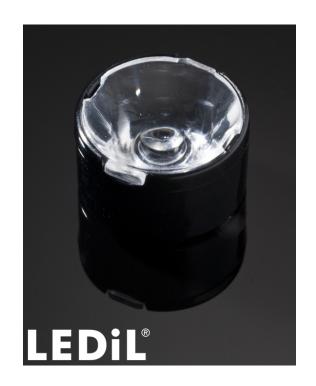


TINA2-RS

~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 🗓



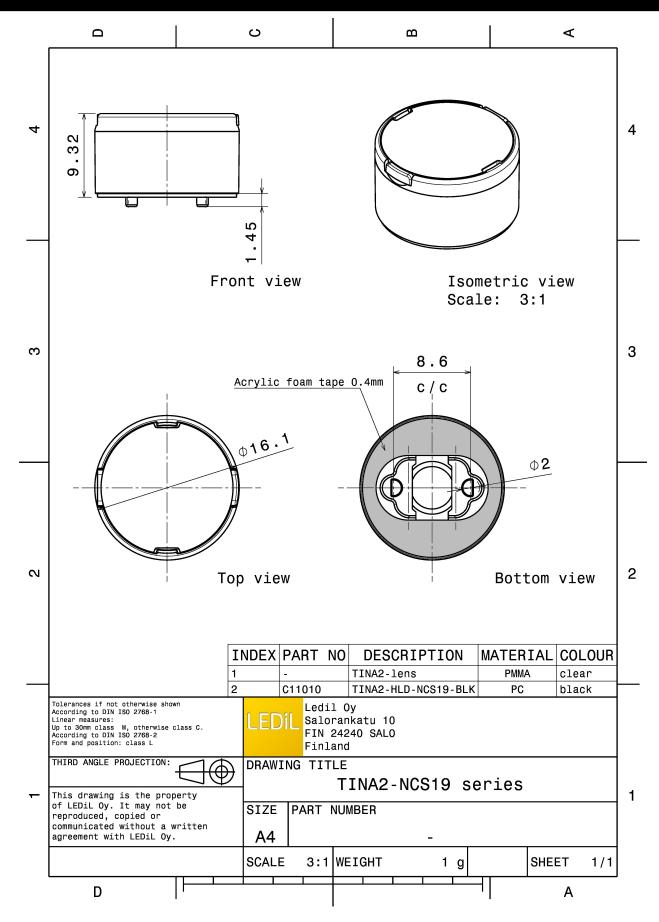
MATERIALS:

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





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

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OPTICAL RESULTS (MEASURED):

WNICHIA

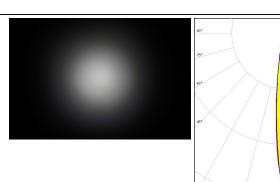
Required components:

LED NCSxx19A $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 13.0° / 26.0° Efficiency 93 % Peak intensity 10.7 cd/lm LEDs/each optic Light colour White



SAMSUNG

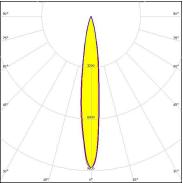
LED LH181A FWHM / FWTM 13.0° / 31.0° Efficiency 82 % Peak intensity 8.7 cd/lm LEDs/each optic 1 White Light colour Required components:



SAMSUNG

LED LH181B $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 14.0° / 31.0° Efficiency 89 % Peak intensity 9.4 cd/lm LEDs/each optic Light colour White Required components:





Published: 16/11/2018



OPTICAL RESULTS (SIMULATED):

MUMILEDS

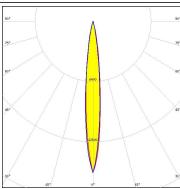
 LED
 LUXEON CZ

 FWHM / FWTM
 12.0° / 25.0°

 Efficiency
 92 %

 Peak intensity
 16.1 cd/lm

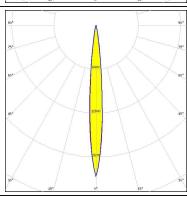
LEDs/each optic 1
Light colour Red
Required components:



MUMILEDS

LED LUXEON HL1Z
FWHM / FWTM 10.0° / 20.0°
Efficiency 90 %
Peak intensity 22.1 cd/lm
LEDs/each optic 1

LEDs/each optic 1
Light colour White
Required components:



WNICHIA

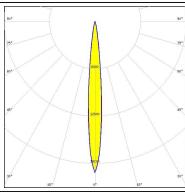
 LED
 NCSxE17A

 FWHM / FWTM
 10.0° / 21.0°

 Efficiency
 92 %

 Peak intensity
 20.5 cd/lm

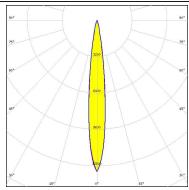
LEDs/each optic 1
Light colour White
Required components:



WNICHIA

LED NVSxE21A
FWHM / FWTM 12.0° / 26.0°
Efficiency 90 %
Peak intensity 13.3 cd/lm
LEDs/each optic 1

Light colour White Required components:





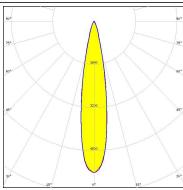
OPTICAL RESULTS (SIMULATED):



LED NVSxx19A $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 20.0° / 37.0° Efficiency 88 % Peak intensity 5.6 cd/lm

LEDs/each optic Light colour White

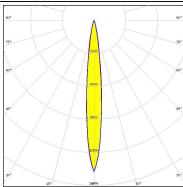
Required components:



OSRAM

LED KW CSLPM1.TG FWHM / FWTM 12.0° / 25.0° Efficiency 92 % Peak intensity 14.7 cd/lm LEDs/each optic 1 White Light colour

Required components:

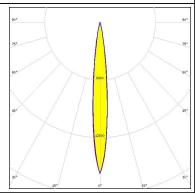


OSRAM Opto Semiconductors

LED OSLON SSL 120 $\mathsf{FWHM}\,/\,\mathsf{FWTM}$ 11.0° / 23.0° Efficiency 92 % Peak intensity 16.8 cd/lm LEDs/each optic

Light colour Hyper Red

Required components:



Published: 16/11/2018



PRODUCT DATASHEET CA11020_TINA2-RS

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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