

PRODUCT DATASHEET CA11021_TINA2-M

TINA2-M

~30° medium 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:

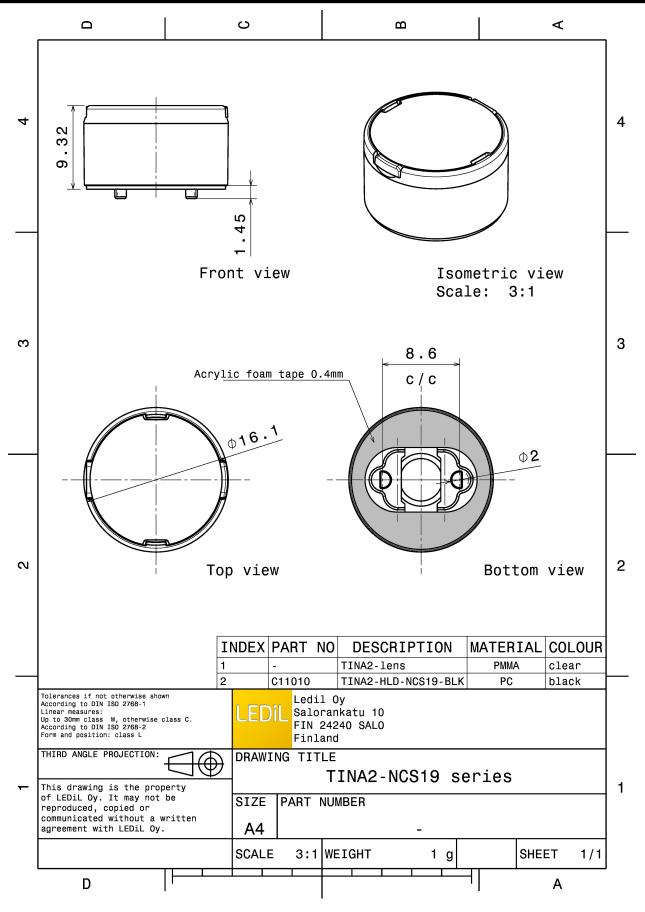
| Component | Туре | Material | Colour | Finish |
|---------------------|-------------|--------------|--------|--------|
| TINA2-XP-M | Single lens | PMMA | clear | |
| TINA2-HLD-NCS19-BLK | Holder | PC | black | |
| TINA-TAPE3 | Таре | Acrylic foam | black | |

ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|-------------|------------|-----|-----|-----------------|
| CA11021_TINA2-M | Single lens | 4140 | 0 | 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>



PHOTOMETRIC DATA (MEASURED):

| WHM / FWTM 25.0° / 51.0° Efficiency 89 % Peak intensity 2.8 od/m LEDseach option 1 .ight colour White Required components: | ØNICHI/ | ۱ | |
|--|------------------|---------------|---|
| Efficiency 89% Peak intensity 2.8 od/m LEDS/each optic 1 Light colour White Required components: | LED | | |
| Peak intensity 2.8 cd/m EDS/each optic 1 Jight colour White Required components: | FWHM / FWTM | 25.0° / 51.0° | |
| LEDs/each optic 1 Light colour White Required components: | Efficiency | 89 % | |
| light colour White Required components: SAMAS UNCS LED LH181A WHM / FVYTM 28.0° / 54.0° Efficiency 80 % Peak intensity 2.6 col/m LEDSreach optic 1 Light colour White Required components: SAMAS UNCS LED LH181B WHM / FVYTM 28.0° / 52.0° Efficiency 86 % Peak intensity 3 col/m LEDSreach optic 1 LEDSreach | Peak intensity | 2.8 cd/lm | |
| Required components: SAMSUNC LED LH181A WHM / FWTM 28.0° / 54.0° Set intensity 2.6 cd/m LED / each optic 1 LeD / each optic 1 SAMSUNC Required components: SAMSUNC LED / H181B WHM / FWTM 28.0° / 52.0° Sticlicancy 86 % Set intensity 3. cd/m LED / each optic 1 LED / each op | LEDs/each optic | 1 | |
| SAMSUNC LED LH181A WHM / FWTM 28.0° / 54.0° Efficiency 80% Pack intensity 2.6 cd/m LEDs/each optic 1 ght colour White Required components: SAMSUNC LED LH181B WHM / FWTM 28.0° / 52.0° Efficiency 86 % Pack intensity 3 cd/m LEDs/each optic 1 ght colour White Required components: | Light colour | White | |
| LED LH181A FWHM / FWTM 28.0° / 54.0° Efficiency 80 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: ED LH181B FWHM / FWTM 28.0° / 52.0° Efficiency 88 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | Required compone | ents: | |
| LED LH181A FWHM / FWTM 28.0° / 54.0° Efficiency 80 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: ED LH181B FWHM / FWTM 28.0° / 52.0° Efficiency 88 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | | | |
| LED LH181A FWHM / FWTM 28.0° / 54.0° Efficiency 80 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: ED LH181B FWHM / FWTM 28.0° / 52.0° Efficiency 88 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | 0 0 0 0 0 | | |
| EVHM / FWTM 28.0° / 54.0° Efficiency 80 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: SAMSUNG LED LH181B FWHM / FWTM 28.0° / 52.0° Efficiency 86 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | 2VIN 2 | UNU | |
| Efficiency 80 % Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: SAMSUNC LED LH181B WHM / FWTM 28.0° / 52.0° Efficiency 86 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | LED | | |
| Peak intensity 2.6 cd/lm LEDs/each optic 1 Light colour White Required components: SAMSUNG LED LH181B WHM / FWTM 28.0° / 52.0° Efficiency 86 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | FWHM / FWTM | 28.0° / 54.0° | |
| LEDs/each optic 1 Light colour White Required components: SAMSUNG LED LH181B WHM / FWTM 28.0° / 52.0° Efficiency 86 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | Efficiency | 80 % | 60 |
| Light colour White Required components: SAMSUNC LED LH181B TWHM / FWTM 28.0° / 52.0° Efficiency 86 % Peak intensity 3 cd/m LEDs/each optic 1 Light colour White Required components: | Peak intensity | 2.6 cd/lm | |
| Required components: | LEDs/each optic | | |
| SAMSUNG LED LH181B WHM / FWTM 28.0° / 52.0° Efficiency 86 % Peak intensity 3 cd/m LEDs/each optic 1 Light colour White Required components: | Light colour | | 9 |
| LED LH181B FWHM / FWTM 28.0° / 52.0° Efficiency 86 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | Required compone | ents: | |
| LED LH181B FWHM / FWTM 28.0° / 52.0° Efficiency 86 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | | | |
| LED LH181B FWHM / FWTM 28.0° / 52.0° Efficiency 86 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | | | 200 |
| LED LH181B FWHM / FWTM 28.0° / 52.0° Efficiency 86 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | | | 20 12 ⁻ 12 ⁻ |
| FWHM / FWTM 28.0° / 52.0° Efficiency 86 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | SAMS | UNG | 59* |
| Efficiency 86 % Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | LED | LH181B | 3' |
| Peak intensity 3 cd/lm LEDs/each optic 1 Light colour White Required components: | FWHM / FWTM | 28.0° / 52.0° | |
| LEDs/each optic 1 Light colour White Required components: | Efficiency | 86 % | 601 |
| Light colour White Required components: | Peak intensity | 3 cd/lm | $ = \sum_{i=1}^{n} \sum_{j=1}^{n} \sum_{i=1}^{n} \sum$ |
| Required components: | LEDs/each optic | 1 | |
| 20 | Light colour | White | gr / |
| | Required compone | ents: | \times / / \times |
| 24 | | | 2300 |
| 34 | | | |
| | | | 34 |



PHOTOMETRIC DATA (SIMULATED):

| CREE LED | XP-G3 32.0° / 59.0° 84 % 2.3 cd/lm 1 White | 24. 000 M 24. 000 M 25. 00 |
|--|--|---|
| ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | LUXEON SunPlus 20 Line (150 deg) 30.0° / 54.0° 88 % 3 cd/lm 1 White | 251 260 200 200 200 200 200 200 200 200 200 |
| WICHIA LED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | NCSxE17A 35.0° / 70.0° 79 % 1.6 cd/lm 4 White | 50 ⁴ |
| ED FWHM / FWTM Efficiency Peak intensity LEDs/each optic Light colour Required components: | NVSxE21A 28.0° / 53.0° 88 % 3.1 cd/lm 1 White | 20 20 20 20 20 20 20 20 20 20 |



PHOTOMETRIC DATA (SIMULATED):

| ØNICHIA | | 90* |
|---------------------|---------------|----------------|
| LED | NVSxx19A | 75 77 |
| FWHM / FWTM | 32.0° / 59.0° | |
| Efficiency | 84 % | 60 60 F |
| Peak intensity | 2.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | ₹ ² |
| Required components | : | 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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