## TINA2-RS

**~14° spot beam optimized for Nichia NS6x83. Assembly with holder and installation tape.**

### TECHNICAL SPECIFICATIONS:

| | |
|---|---|
| Dimensions | Ø 16.1 mm |
| Height | 11 mm |
| Fastening | tape |
| ROHS compliant | yes ⓘ |

### MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour | Finish |
|---|---|---|---|---|
| TINA2-RS | Single lens | PMMA | clear | |
| TINA2-HLD-N83-BLK | Holder | PC | black | |
| TINA-TAPE3 | Tape | Acrylic foam | black | |

### ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|---|---|---|---|---|---|
| CA11171_TINA2-RS | Single lens | 4140 | 230 | 230 | 8.4 |

» Box size: 451 x 241 x 298 mm

D    C    B    A

Front view

Isometric view
Scale: 3:1

10.9

5.1

Acrylic foam tape 0.4mm

Φ16.1

5.1

Top view

Bottom view
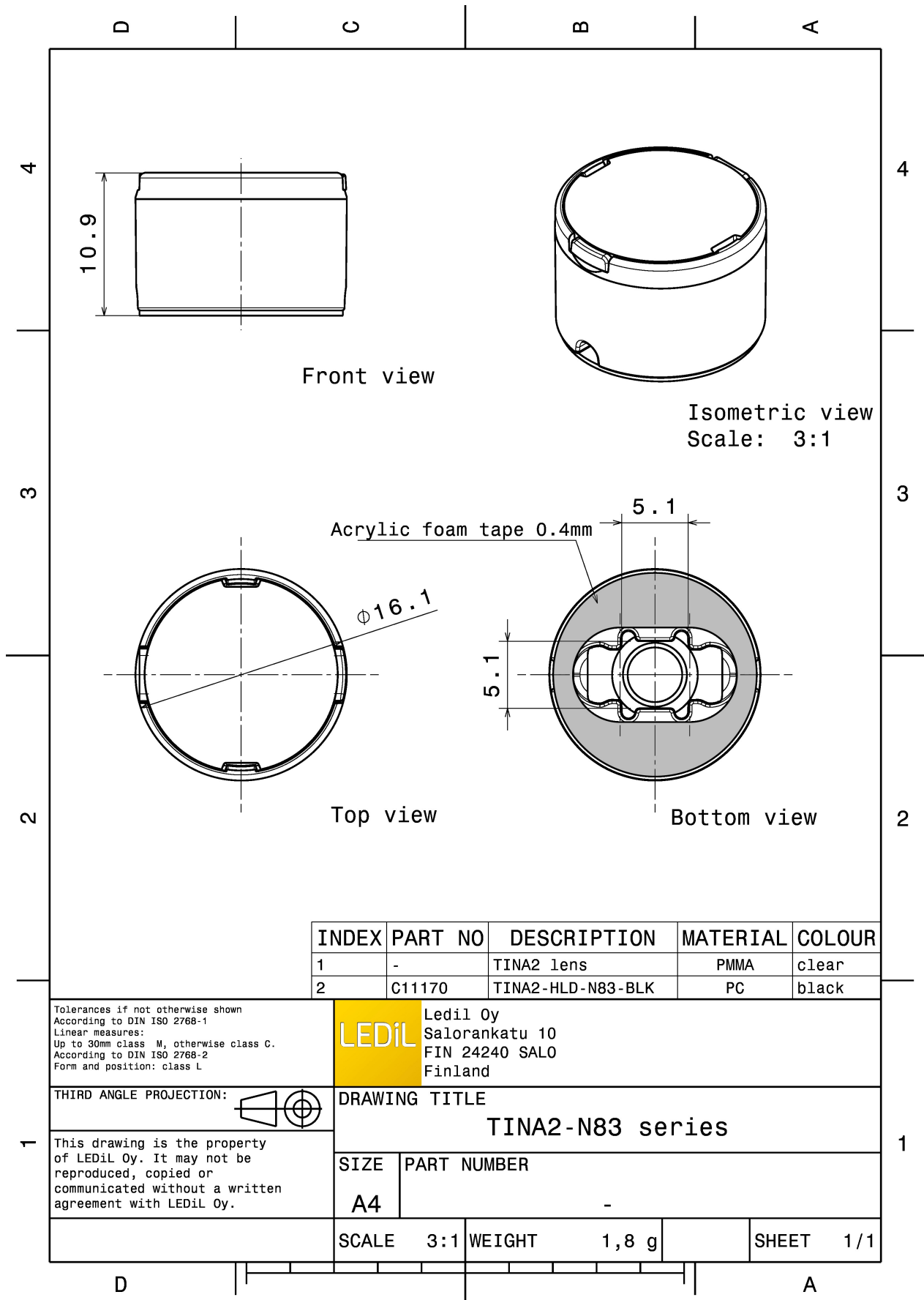
| INDEX | PART NO | DESCRIPTION | MATERIAL | COLOUR |
|-------|---------|-------------|----------|--------|
| 1 | - | TINA2 lens | PMMA | clear |
| 2 | C11170 | TINA2-HLD-N83-BLK | PC | black |

Tolerances if not otherwise shown
According to DIN ISO 2768-1
Linear measures:
Up to 30mm class M, otherwise class C.
According to DIN ISO 2768-2
Form and position: class L

LEDiL

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Finland

THIRD ANGLE PROJECTION:

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DRAWING TITLE
TINA2-N83 series

| SIZE | PART NUMBER |
|------|-------------|
| A4 | - |

| SCALE 3:1 | WEIGHT 1,8 g | SHEET 1/1 |

D    A

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

## PHOTOMETRIC DATA (MEASURED):

**CREE⇋LED**

| | |
|---|---|
| LED | MX-6 |
| FWHM / FWTM | 18.0° / 40.0° |
| Efficiency | 89 % |
| Peak intensity | 5.2 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
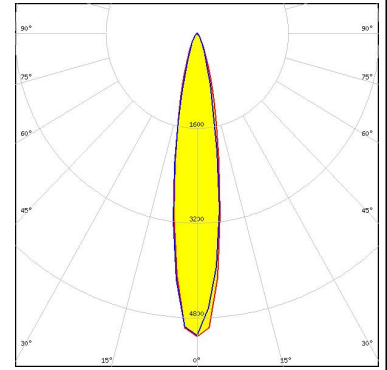


**LUMILEDS**

| | |
|---|---|
| LED | LUXEON V |
| FWHM / FWTM | 21.0° / 41.0° |
| Efficiency | 82 % |
| Peak intensity | 4.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
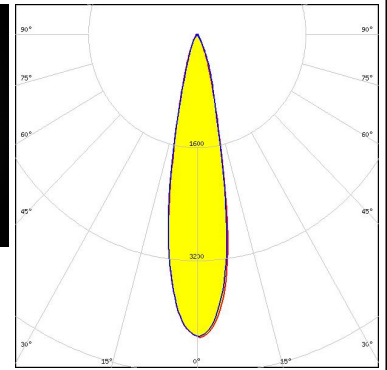


**NICHIA**

| | |
|---|---|
| LED | NS3x83 |
| FWHM / FWTM | 15.0° |
| Efficiency | 93 % |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

**NICHIA**

| | |
|---|---|
| LED | NS6x83 |
| FWHM / FWTM | 19.0° / 42.0° |
| Efficiency | 93 % |
| Peak intensity | 5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
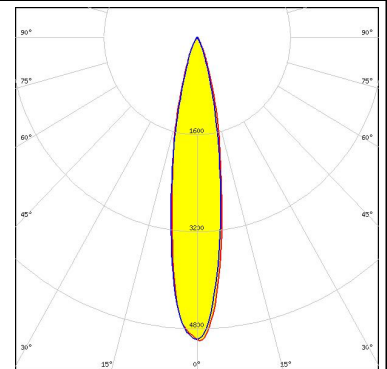
## PHOTOMETRIC DATA (MEASURED):

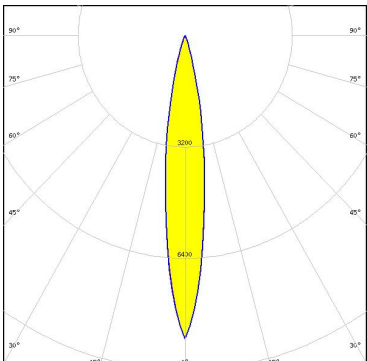**SAMSUNG**
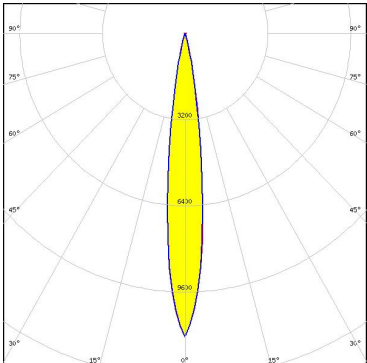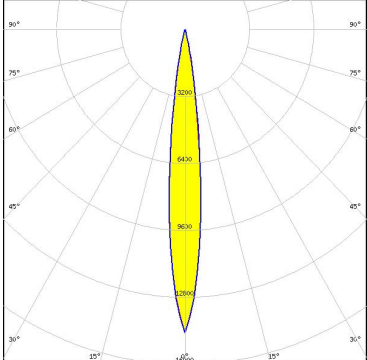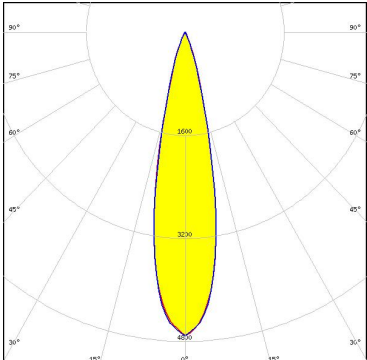
| | |
|---|---|
| LED | LH508A |
| FWHM / FWTM | 26.0° / 53.0° |
| Efficiency | 76 % |
| Peak intensity | 2.6 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |
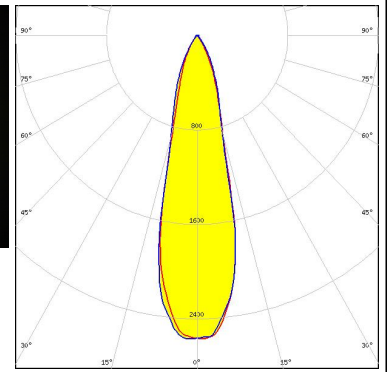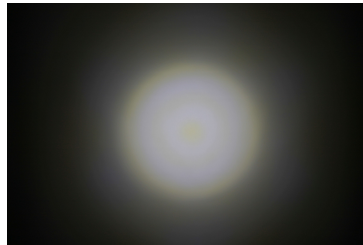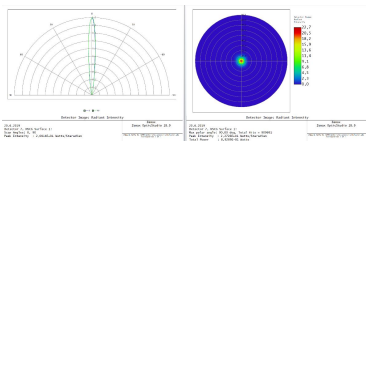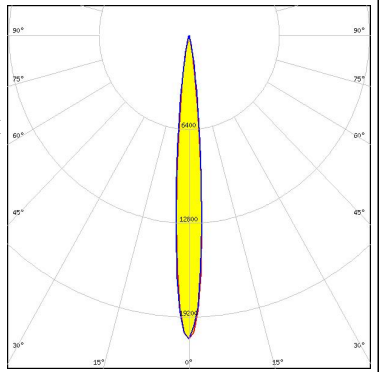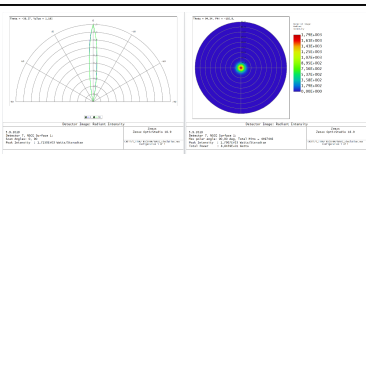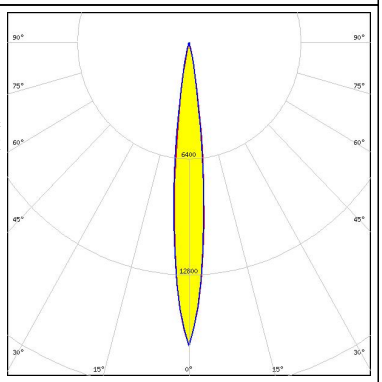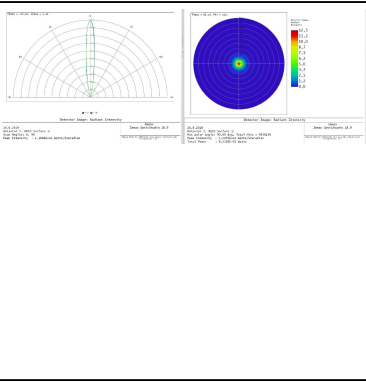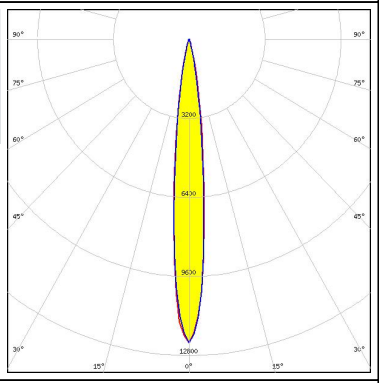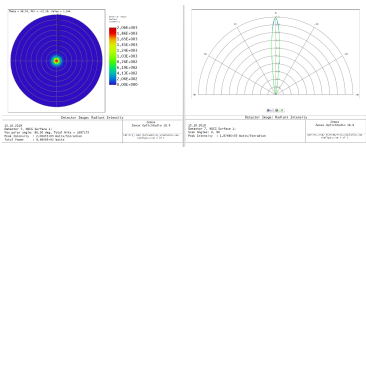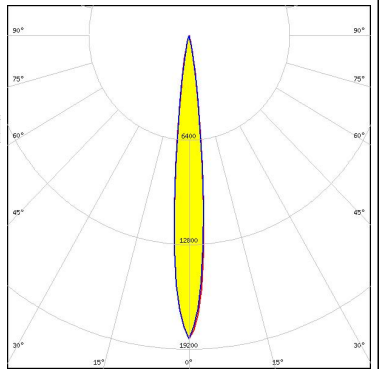
## PHOTOMETRIC DATA (SIMULATED):

**CREE LED**

| | |
|---|---|
| LED | XP-E2 |
| FWHM / FWTM | 12.0° / 22.0° |
| Efficiency | 91 % |
| Peak intensity | 18.1 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE LED**

| | |
|---|---|
| LED | XP-G2 |
| FWHM / FWTM | 14.0° / 27.0° |
| Efficiency | 91 % |
| Peak intensity | 12.4 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE LED**

| | |
|---|---|
| LED | XP-G3 |
| FWHM / FWTM | 16.0° / 34.0° |
| Efficiency | 87 % |
| Peak intensity | 7.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



**CREE LED**

| | |
|---|---|
| LED | XP-L HI |
| FWHM / FWTM | 14.0° / 28.0° |
| Efficiency | 92 % |
| Peak intensity | 10.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

## PHOTOMETRIC DATA (SIMULATED):

| CREE LED | |
|---|---|
| LED | XT-E |
| FWHM / FWTM | 14.0° / 26.0° |
| Efficiency | 85 % |
| Peak intensity | 11.3 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

| LUMINUS | |
|---|---|
| LED | SST-20 |
| FWHM / FWTM | 12.0° / 24.0° |
| Efficiency | 88 % |
| Peak intensity | 14.5 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

| NICHIA | |
|---|---|
| LED | NV4WB35AM |
| FWHM / FWTM | 22.0° / 40.0° |
| Efficiency | 89 % |
| Peak intensity | 4.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

| NICHIA | |
|---|---|
| LED | NVSW219F |
| FWHM / FWTM | 16.0° / 32.0° |
| Efficiency | 91 % |
| Peak intensity | 8.7 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |

## PHOTOMETRIC DATA (SIMULATED):

**OSRAM** Opto Semiconductors

| | |
|---|---|
| LED | SFH 4715AS |
| FWHM / FWTM | 10.0° / 20.0° |
| Efficiency | 89 % |
| LEDs/each optic | 1 |
| Light colour | IR |
| Required components: | |

**OSRAM** Opto Semiconductors

| | |
|---|---|
| LED | SFH 4716AS |
| FWHM / FWTM | 12.0° / 22.0° |
| Efficiency | 88 % |
| LEDs/each optic | 1 |
| Light colour | IR |
| Required components: | |

**OSRAM** Opto Semiconductors

| | |
|---|---|
| LED | SFH 4717AS |
| FWHM / FWTM | 12.0° / 25.0° |
| Efficiency | 85 % |
| LEDs/each optic | 1 |
| Light colour | IR |
| Required components: | |

**OSRAM** Opto Semiconductors

| | |
|---|---|
| LED | SFH 4725S |
| FWHM / FWTM | 12.0° / 20.0° |
| Efficiency | 89 % |
| LEDs/each optic | 1 |
| Light colour | IR |
| Required components: | |

## PHOTOMETRIC DATA (SIMULATED):

### OSRAM
Opto Semiconductors

| | |
|---|---|
| LED | SFH 4727AS |
| FWHM / FWTM | 13.0° / 25.0° |
| Efficiency | 85 % |
| LEDs/each optic | 1 |
| Light colour | IR |
| Required components: | |
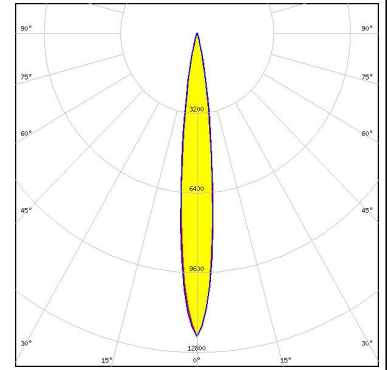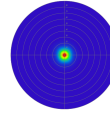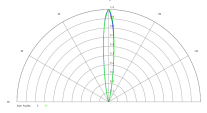
### SAMSUNG

| | |
|---|---|
| LED | LH351C |
| FWHM / FWTM | 18.0° / 33.0° |
| Efficiency | 92 % |
| Peak intensity | 7.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |