

TINA2-WW

~60° wide beam optimized for Nichia NS6x83.
Assembly with holder and installation tape.

SPECIFICATION:

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

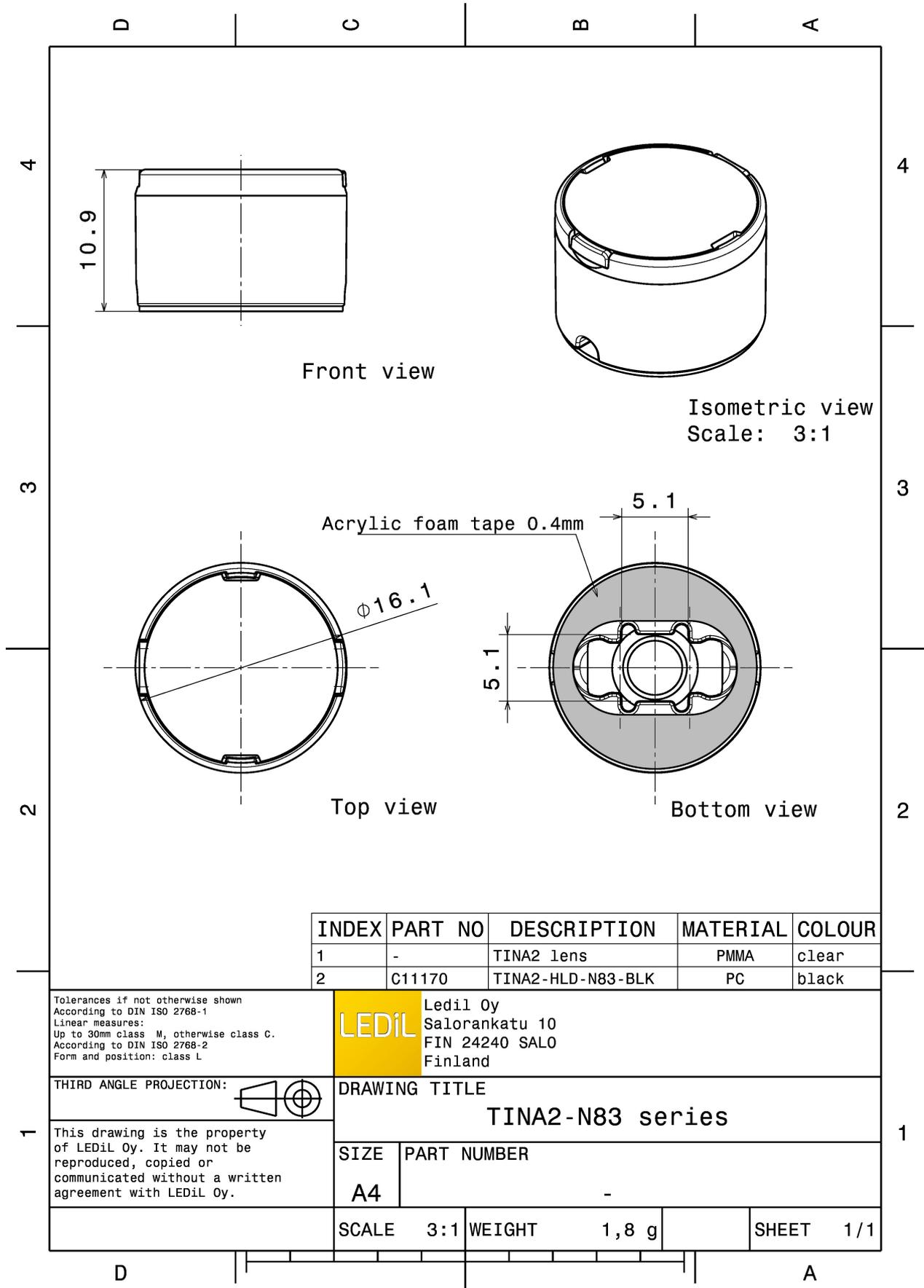


MATERIALS:

| Component | Type | Material | Colour | Finish |
|-------------------|-------------|--------------|--------|--------|
| TINA2-WW-6N83 | Single lens | PMMA | clear | |
| TINA2-HLD-N83-BLK | Holder | PC | black | |
| TINA-TAPE3 | Tape | Acrylic foam | black | |

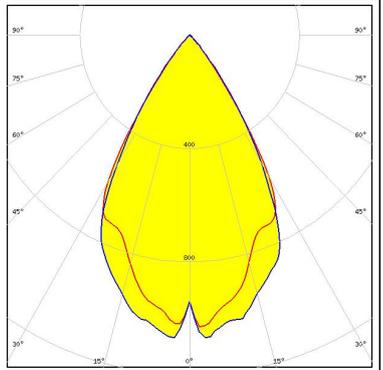
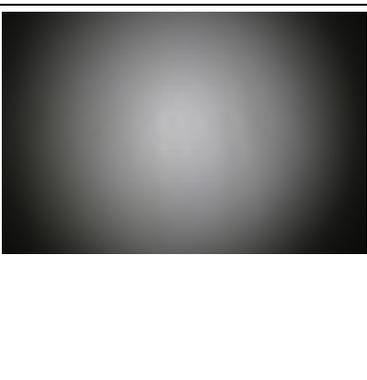
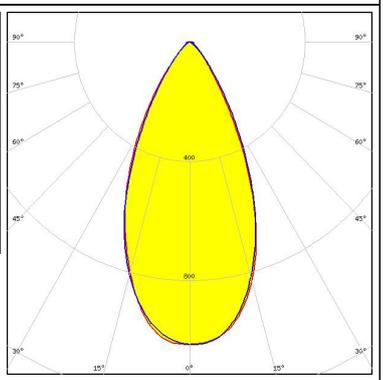
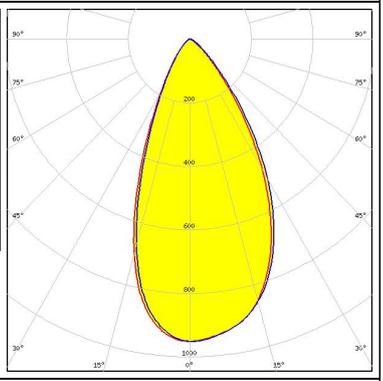
ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|--------------------------------|-------------|------------|-----|-----|-----------------|
| CA11176_TINA2-WW | 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

OPTICAL RESULTS (MEASURED):

| | | |
|--|--|---|
| <p>CREE → LED</p> <p>LED: MX-6 FWHM / FWTM: 56.0° / 86.0° Efficiency: % Peak intensity: 0.9 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> | |  |
| <p>LUMILEDS</p> <p>LED: LUXEON 5050 Round LES FWHM / FWTM: 49.0° / 81.0° Efficiency: 76 % Peak intensity: 1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> |  |  |
| <p>LUMILEDS</p> <p>LED: LUXEON V FWHM / FWTM: 51.0° / 82.0° Efficiency: 76 % Peak intensity: 1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> |  |  |
| <p>NICHIA</p> <p>LED: NS3x83 FWHM / FWTM: 60.0° / 90.0° Efficiency: 87 % Peak intensity: 0.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> | | |

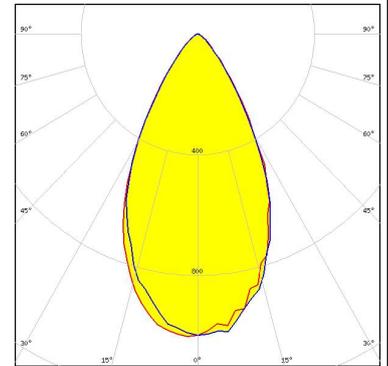
OPTICAL RESULTS (MEASURED):



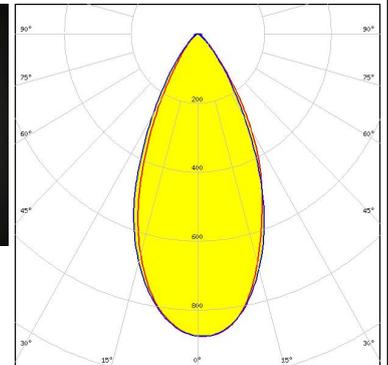
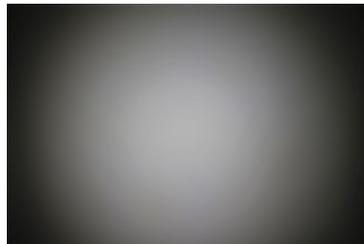
LED NS6x83
FWHM / FWTM 60.0° / 90.0°
Efficiency 87 %
Peak intensity 0.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED OLP-x5050F6L
FWHM / FWTM 55.0° / 86.0°
Efficiency 86 %
Peak intensity 1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



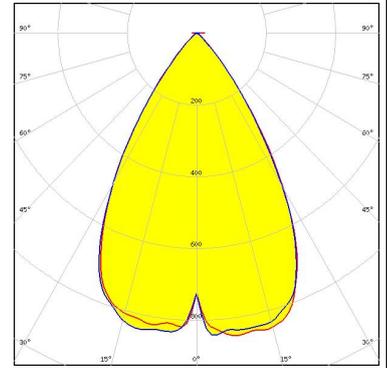
LED LH508A
FWHM / FWTM 48.0° / 80.0°
Efficiency 64 %
Peak intensity 0.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (SIMULATED):

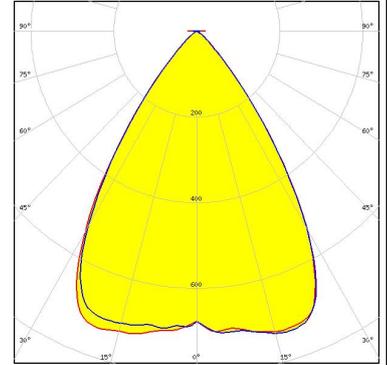
CREE LED

LED XHP35 HI
 FWHM / FWTM 63.0° / 86.0°
 Efficiency 87 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



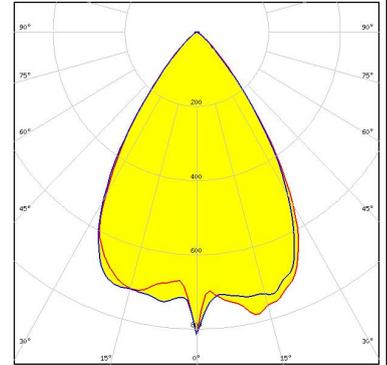
CREE LED

LED XP-G3
 FWHM / FWTM 68.0° / 90.0°
 Efficiency 88 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



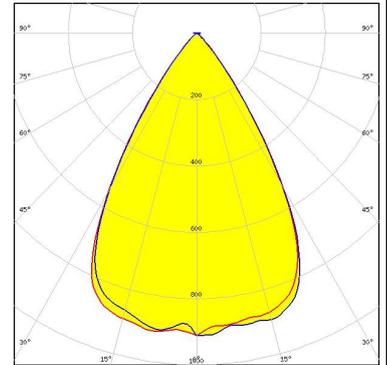
CREE LED

LED XP-L HD
 FWHM / FWTM 67.0° / 91.0°
 Efficiency 89 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE LED

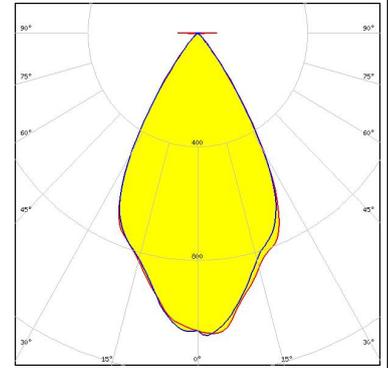
LED XP-L HI
 FWHM / FWTM 64.0° / 84.0°
 Efficiency 92 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

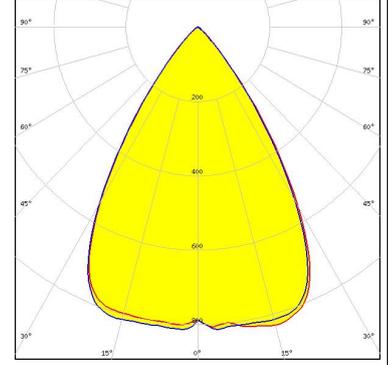
LUMILEDS

LED LUXEON C
 FWHM / FWTM 58.0° / 78.0°
 Efficiency 83 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



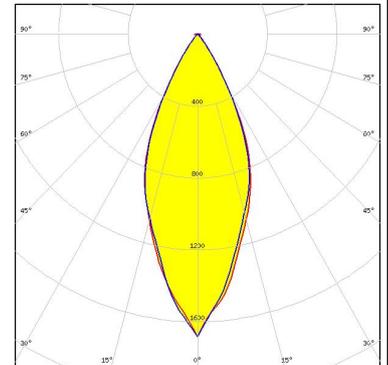
LUMILEDS

LED LUXEON HL2X
 FWHM / FWTM 66.0° / 88.0°
 Efficiency 92 %
 Peak intensity 0.9 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



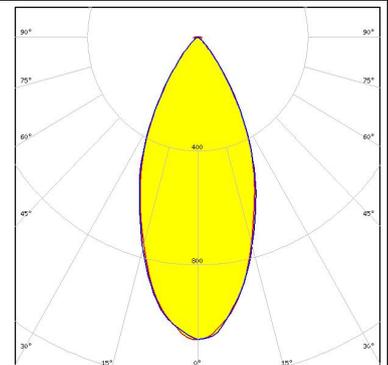
NICHIA

LED NCSxE17A
 FWHM / FWTM 42.0° / 70.0°
 Efficiency 85 %
 Peak intensity 1.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



NICHIA

LED NCSxE17A
 FWHM / FWTM 46.0° / 80.0°
 Efficiency 72 %
 Peak intensity 1.1 cd/lm
 LEDs/each optic 4
 Light colour White
 Required components:

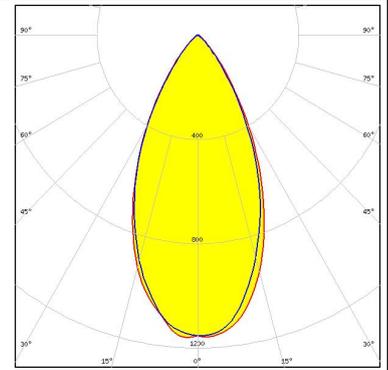


OPTICAL RESULTS (SIMULATED):

OSRAM

Opto Semiconductors

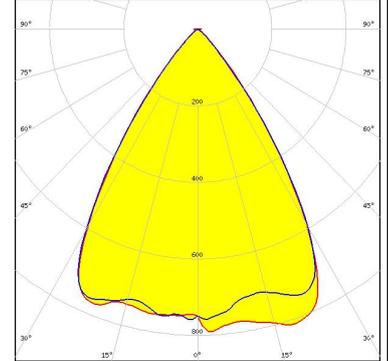
LED Duris S8
 FWHM / FWTM 49.0° / 82.0°
 Efficiency 86 %
 Peak intensity 1.2 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

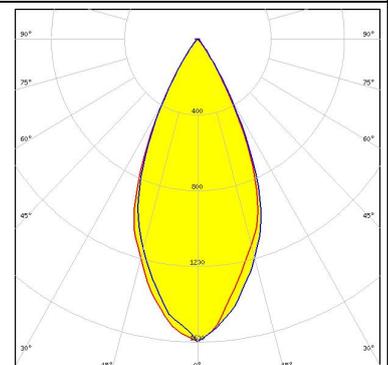
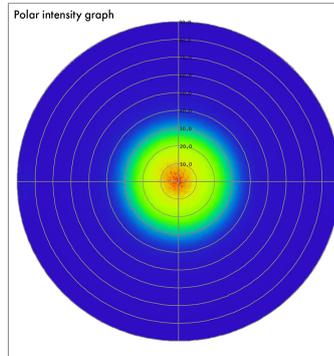
LED OSLOM Square CSSRM2/CSSRM3
 FWHM / FWTM 70.0° / 88.0°
 Efficiency 92 %
 Peak intensity 0.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM

Opto Semiconductors

LED SFH 4715AS
 FWHM / FWTM 47.0° / 69.0°
 Efficiency 91 %
 LEDs/each optic 1
 Light colour IR
 Required components:



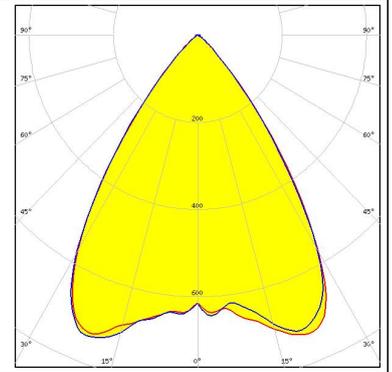
SAMSUNG

LED LH181B
 FWHM / FWTM 49.1° / 74.2°
 Efficiency 88 %
 Peak intensity 1.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

OPTICAL RESULTS (SIMULATED):

SAMSUNG

| | |
|----------------------|---------------|
| LED | LH351B |
| FWHM / FWTM | 70.0° / 92.0° |
| Efficiency | 90 % |
| Peak intensity | 0.8 cd/lm |
| LEDs/each optic | 1 |
| Light colour | White |
| Required components: | |



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:

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