

TINA-D

~16° diffused spot beam. Assembly with holder, installation tape and location pins.

SPECIFICATION:

| | |
|----------------|-----------|
| Dimensions | Ø 16.1 mm |
| Height | 9.5 mm |
| Fastening | tape, pin |
| ROHS compliant | yes ⓘ |

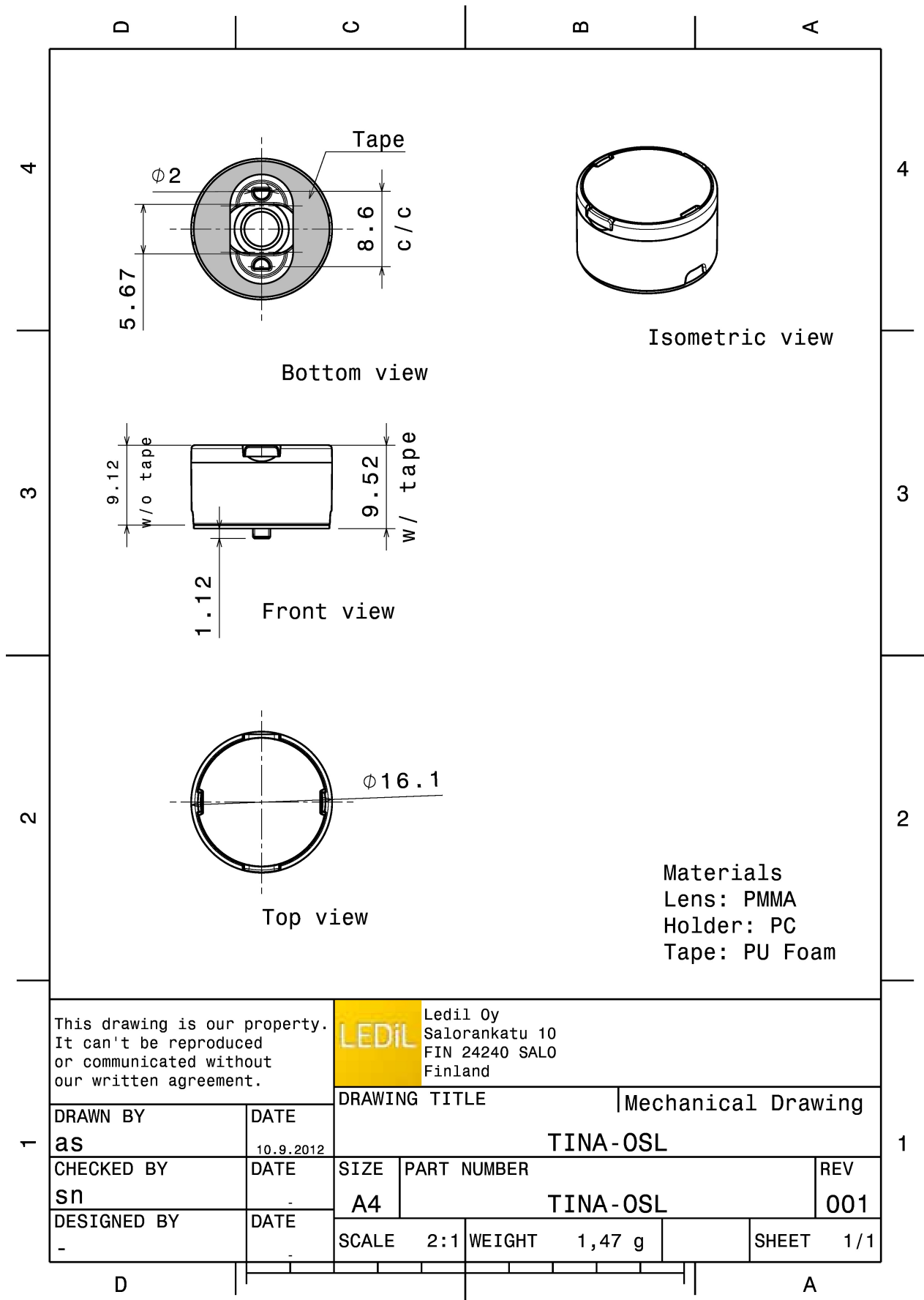


MATERIALS:

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

ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|----------------|-------------|------------|-----|-----|-----------------|
| FA11205_TINA-D | Single lens | 2016 | 288 | 144 | 4.1 |
| » Box size: | | | | | |



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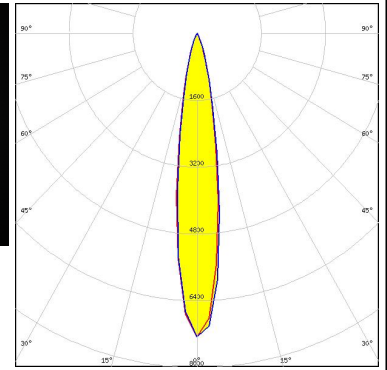
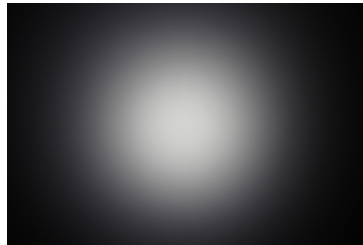
| | | | | | |
|-------------------------|--|---------------------|-------------------------|--|--------------------------------|
| DRAWN BY as | | DATE 10.9.2012 | | DRAWING TITLE Mechanical Drawing | |
| CHECKED BY sn | | DATE - | | TINA-OSL | |
| DESIGNED BY - | | DATE - | | SIZE A4 | PART NUMBER TINA-OSL |
| | | SCALE 2:1 | WEIGHT 1,47 g | REV 001 | |
| | | | | SHEET 1/1 | |

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

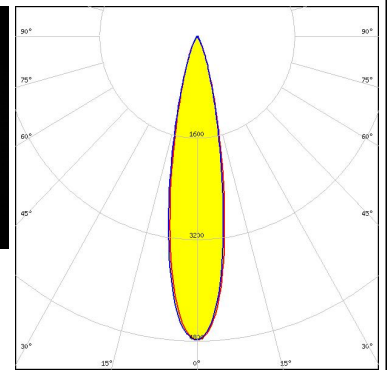
OPTICAL RESULTS (MEASURED):



LED XB-H
 FWHM / FWTM 17.0° / 35.0°
 Efficiency 87 %
 Peak intensity 7.3 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NVSW3x9A
 FWHM / FWTM 21.0° / 42.0°
 Efficiency 87 %
 Peak intensity 4.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM Opto Semiconductors
 LED OSOLON SSL 150
 FWHM / FWTM 14.0° / 32.0°
 Efficiency 89 %
 Peak intensity 6.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM Opto Semiconductors
 LED OSOLON SSL 80
 FWHM / FWTM 12.0° / 28.0°
 Efficiency 89 %
 Peak intensity 10.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

OPTICAL RESULTS (MEASURED):

OSRAM Opto Semiconductors

LED SFH 4715S
FWHM / FWTM 18.0° / 32.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:

OSRAM Opto Semiconductors

LED SFH 4725S
FWHM / FWTM 18.0° / 36.0°
Efficiency %
LEDs/each optic 1
Light colour White
Required components:

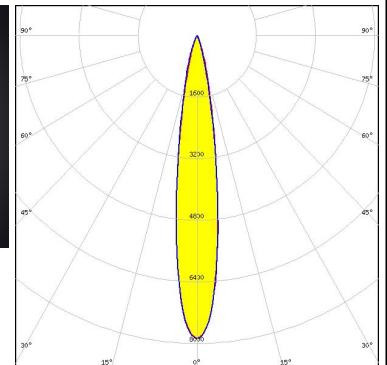
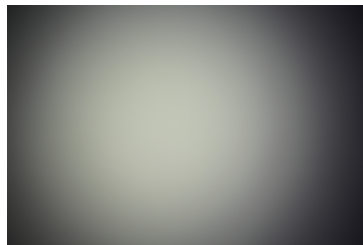
SAMSUNG

LED LH351A
FWHM / FWTM 18.0° / 37.0°
Efficiency 93 %
Peak intensity 4.1 cd/m
LEDs/each optic 1
Light colour White
Required components:

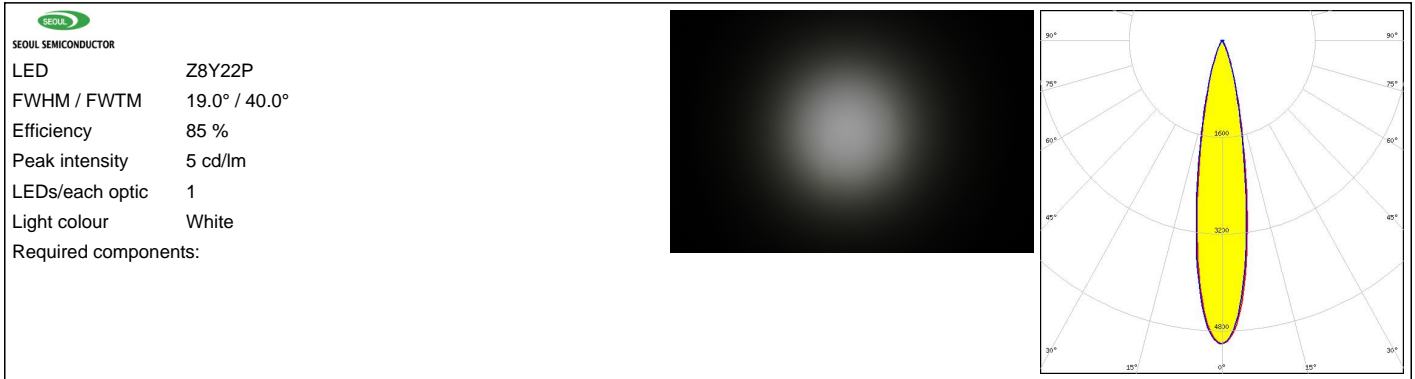


SEOUL SEMICONDUCTOR

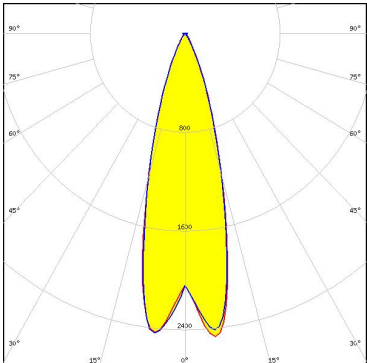
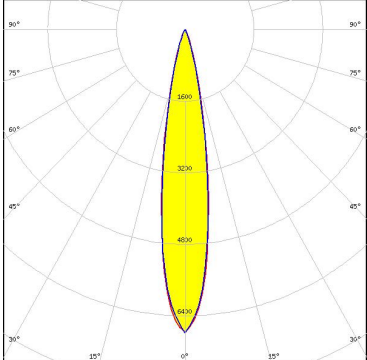
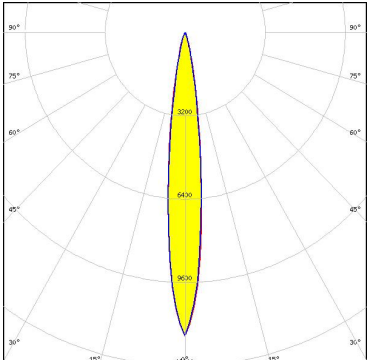
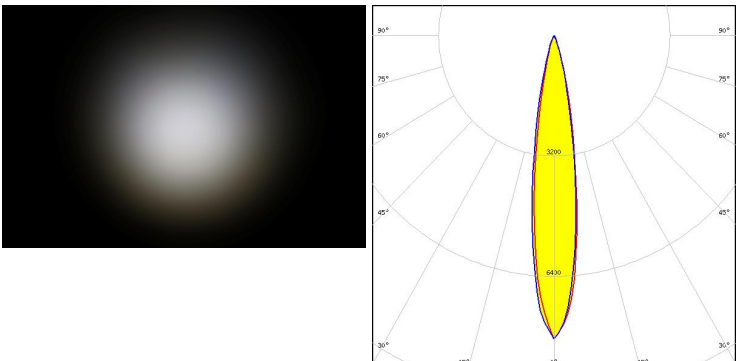
LED Z5M1/Z5M2
FWHM / FWTM 16.0° / 33.0°
Efficiency 90 %
Peak intensity 7.9 cd/m
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):



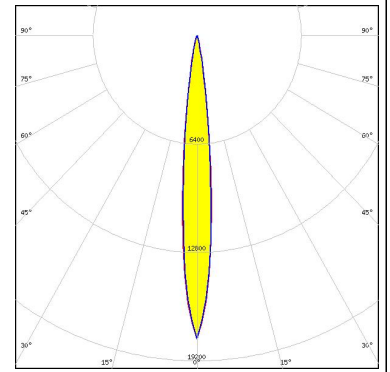
OPTICAL RESULTS (SIMULATED):

| | |
|---|---|
| <p>NICHIA</p> <p>LED: NCSxE17A FWHM / FWTM: 30.0° / 52.0° Efficiency: 85 % Peak intensity: 2.5 cd/lm LEDs/each optic: 4 Light colour: White Required components:</p> |  |
| <p>NICHIA</p> <p>LED: NVSxx19B/NVSxx19C FWHM / FWTM: 18.0° Efficiency: 88 % Peak intensity: 7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> |  |
| <p>OSRAM Opto Semiconductors</p> <p>LED: Duris E 2835 FWHM / FWTM: 13.0° / 28.0° Efficiency: 92 % Peak intensity: 11.7 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> |  |
| <p>OSRAM Opto Semiconductors</p> <p>LED: Duris S5 (2 chip) FWHM / FWTM: 17.0° / 33.0° Efficiency: 92 % Peak intensity: 8.1 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> |  |

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

| | |
|----------------------|----------------------|
| LED | SYNIOS S2222 |
| FWHM / FWTM | 12.0 + 11.0° / 22.0° |
| Efficiency | 97 % |
| Peak intensity | 17.9 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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