

TINA3-S

~13° spot beam optimized for CREE XP-E.
Assembly with holder, installation tape and
location pins.

TECHNICAL SPECIFICATIONS:

| | |
|----------------|-----------|
| Dimensions | Ø 16.1 mm |
| Height | 11.4 mm |
| Fastening | tape, pin |
| ROHS compliant | yes ⓘ |

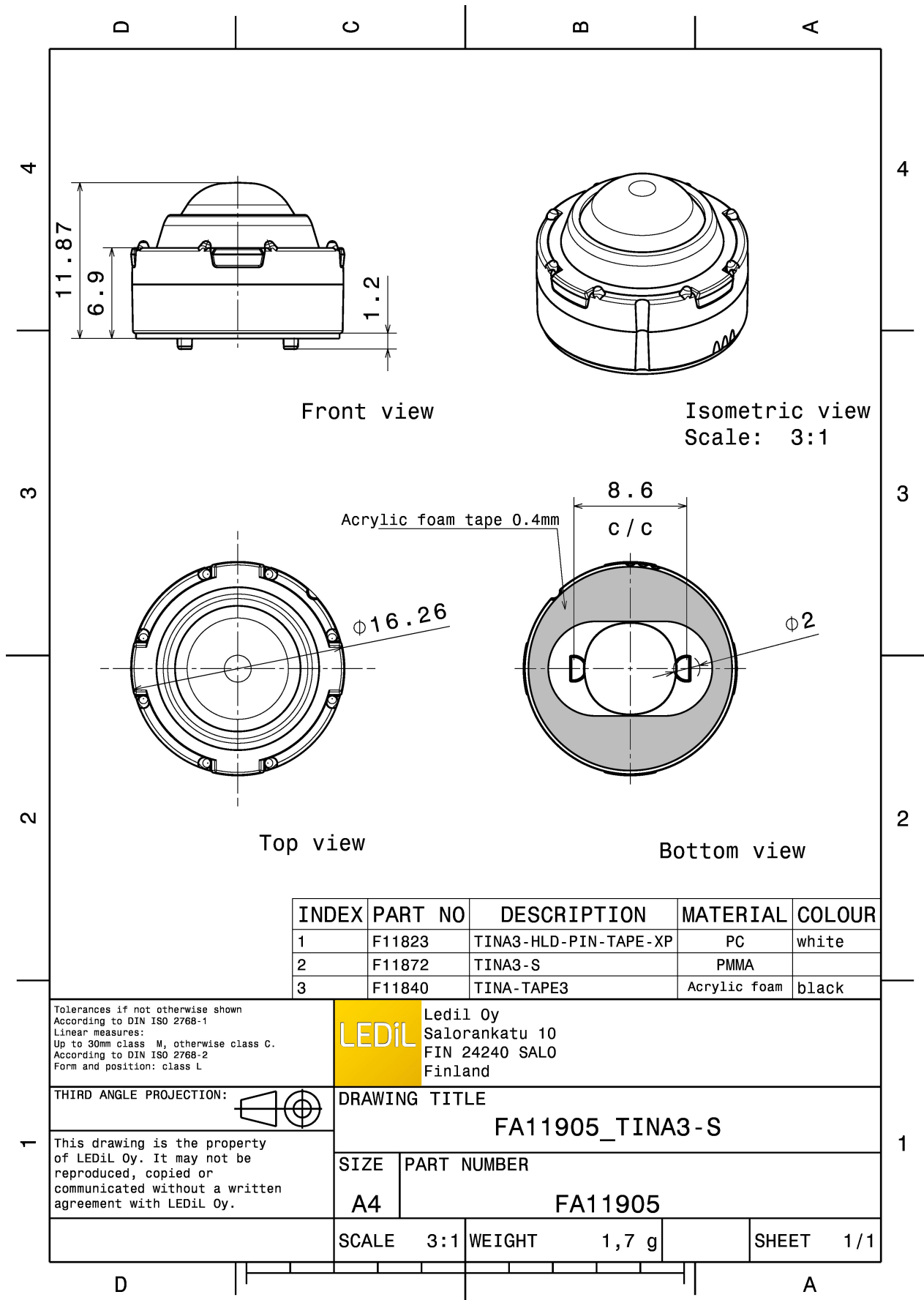


MATERIAL SPECIFICATIONS:

| Component | Type | Material | Colour | Finish |
|-----------------------|-------------|--------------|--------|--------|
| TINA3-S | Single lens | PMMA | clear | |
| TINA3-HLD-PIN-TAPE-XP | Holder | PC | white | |
| TINA-TAPE3 | Tape | Acrylic foam | black | |

ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|-----------------|-------------|------------|-----|-----|-----------------|
| FA11905_TINA3-S | Single lens | 2016 | 288 | 288 | 3.7 |
| » Box size: | | | | | |

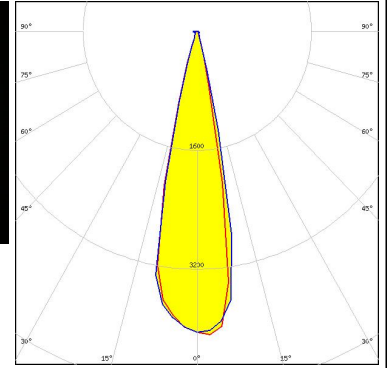


See also our general installation guide: www.ledil.com/installation_guide

PHOTOMETRIC DATA (MEASURED):

CREE LED

LED XM-L
 FWHM / FWTM 23.0° / 30.0°
 Efficiency 86 %
 Peak intensity 3.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



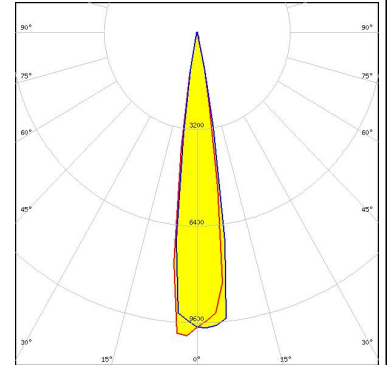
CREE LED

LED XP-E
 FWHM / FWTM 10.0° / 16.0°
 Efficiency 86 %
 Peak intensity 15.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



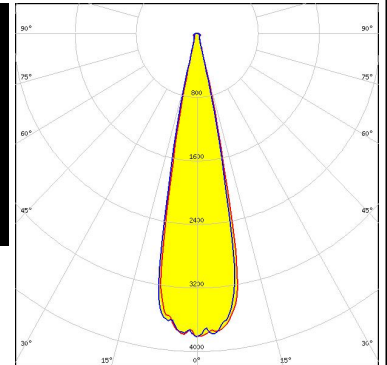
CREE LED

LED XP-G
 FWHM / FWTM 15.0° / 25.0°
 Efficiency 86 %
 Peak intensity 6.7 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



CREE LED

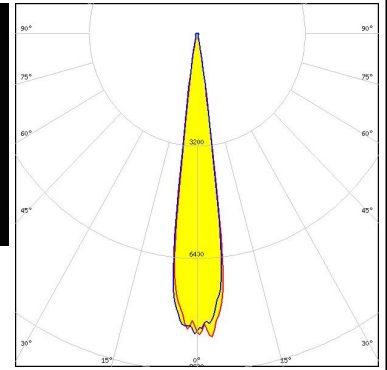
LED XP-L HD
 FWHM / FWTM 23.0° / 32.0°
 Efficiency 87 %
 Peak intensity 3.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (MEASURED):



LED XP-L HI
FWHM / FWTM 15.0° / 22.0°
Efficiency 88 %
Peak intensity 8.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON A
FWHM / FWTM 16.0° / 23.0°
Efficiency 83 %
Peak intensity 6.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON Rebel
FWHM / FWTM 11.0° / 18.0°
Efficiency 83 %
Peak intensity 12.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

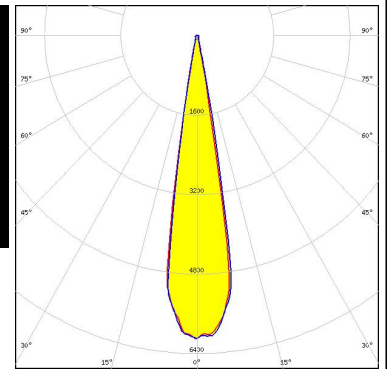


LED LUXEON Rebel ES
FWHM / FWTM 18.5° / 22.0°
Efficiency 82 %
Peak intensity 6.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

PHOTOMETRIC DATA (MEASURED):



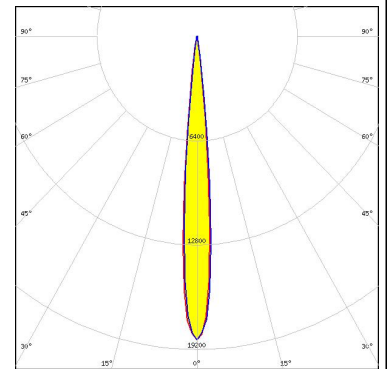
LED NVSW219F
 FWHM / FWTM 18.0° / 24.0°
 Efficiency 85 %
 Peak intensity 6.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NVSxx19A
 FWHM / FWTM 16.5° / 23.0°
 Efficiency 87 %
 Peak intensity 6.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:


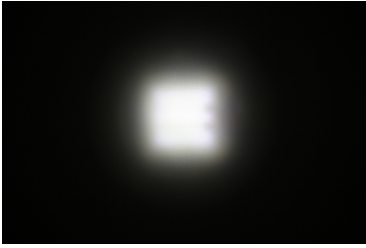


OSRAM Opto Semiconductors
 LED OSOLON SSL 150
 FWHM / FWTM 9.0° / 14.0°
 Efficiency 84 %
 Peak intensity 18.4 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OSRAM Opto Semiconductors
 LED OSOLON SSL 80
 FWHM / FWTM 11.0° / 17.0°
 Efficiency 86 %
 Peak intensity 14 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:

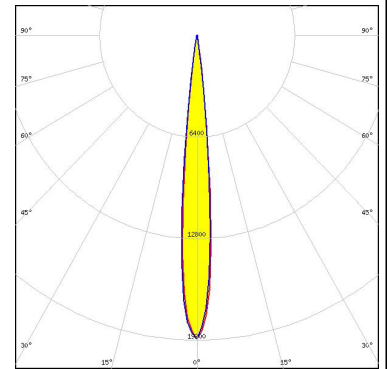
PHOTOMETRIC DATA (MEASURED):

| | | |
|---|---------------|--|
|  | |  |
| SEOUL SEMICONDUCTOR | | |
| LED | Z5 | |
| FWHM / FWTM | 10.0° / 17.0° | |
| Efficiency | 80 % | |
| Peak intensity | 16.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | |
| Required components: | | |

PHOTOMETRIC DATA (SIMULATED):

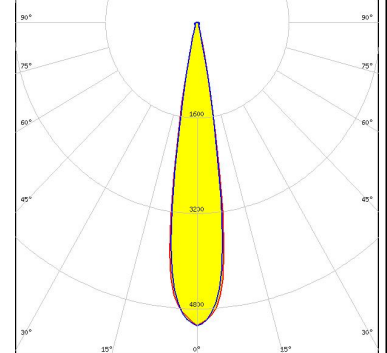
CREE LED

LED XP-E2
 FWHM / FWTM 10.0° / 17.0°
 Efficiency 92 %
 Peak intensity 19.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



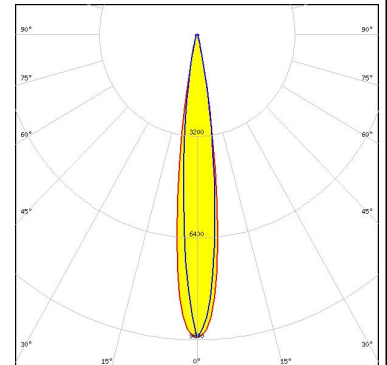
CREE LED

LED XP-G3
 FWHM / FWTM 18.0° / 28.0°
 Efficiency 78 %
 Peak intensity 5.1 cd/lm
 LEDs/each optic 1
 Light colour Blue
 Required components:



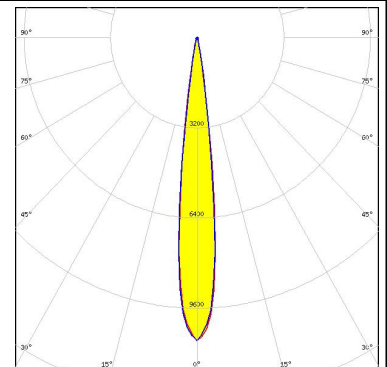
LUMILEDS

LED LUXEON 2835 Line
 FWHM / FWTM 13.0° / 25.0°
 Efficiency 91 %
 Peak intensity 9.5 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LUMINUS

LED SST-20
 FWHM / FWTM 12.0° / 22.0°
 Efficiency 86 %
 Peak intensity 10.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



PHOTOMETRIC DATA (SIMULATED):

| | |
|--|--|
| <p>NICHIA</p> <p>LED: NV4WB35AM FWHM / FWTM: 22.0° / 41.0° Efficiency: 90 % Peak intensity: 4.6 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> | |
| <p>OSRAM Opto Semiconductors</p> <p>LED: OSLOM Black FWHM / FWTM: 12.0° / 23.0° Efficiency: 86 % Peak intensity: 11.8 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p> | |
| <p>OSRAM Opto Semiconductors</p> <p>LED: SFH 4714A FWHM / FWTM: 7.0° / 14.0° Efficiency: 84 % Peak intensity: 26 cd/lm LEDs/each optic: 1 Light colour: IR Required components:</p> | |
| <p>OSRAM Opto Semiconductors</p> <p>LED: SFH 4715AS FWHM / FWTM: 13.0° / 25.0° Efficiency: 88 % Peak intensity: 10.6 cd/lm LEDs/each optic: 1 Light colour: IR Required components:</p> | |

PHOTOMETRIC DATA (SIMULATED):

| | |
|--|--|
| <p>OSRAM Opto Semiconductors</p> <p>LED SFH 4715S FWHM / FWTM 13.0° / 24.0° Efficiency 87 % LEDs/each optic 1 Light colour IR Required components:</p> | |
| <p>OSRAM Opto Semiconductors</p> <p>LED SFH 4725S FWHM / FWTM 13.0° / 24.0° Efficiency 87 % LEDs/each optic 1 Light colour IR Required components:</p> | |
| <p>OSRAM Opto Semiconductors</p> <p>LED SFH 4726S FWHM / FWTM 9.0° / 17.0° Efficiency 84 % LEDs/each optic 1 Light colour IR Required components:</p> | |
| <p>SEOL SEOUL SEMICONDUCTOR</p> <p>LED Z8Y22 FWHM / FWTM 15.0° / 29.0° Efficiency 80 % Peak intensity 5.4 cd/lm LEDs/each optic 1 Light colour White Required components:</p> | |

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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