

TINA-D

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



SPECIFICATION:

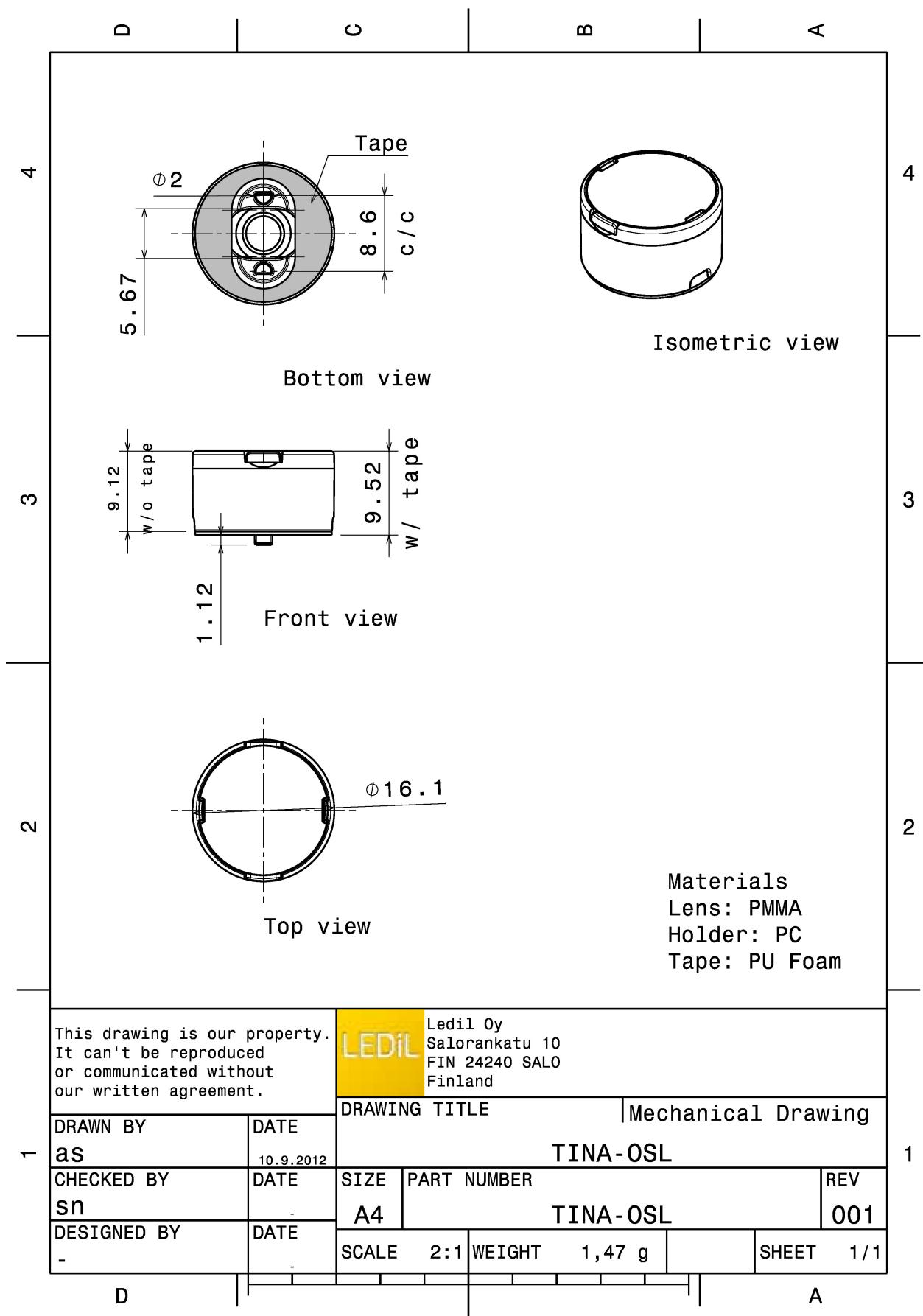
Dimensions	Ø 16.1
Height	9.5 mm
Fastening	tape, pin
ROHS compliant	yes 

MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
TINA-D	Single lens	PMMA	clear		
TINA-HLD-PIN-BLK	Holder	PC	black		
TINA-TAPE3	Tape	Acryl tape	black		

ORDERING INFORMATION:

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

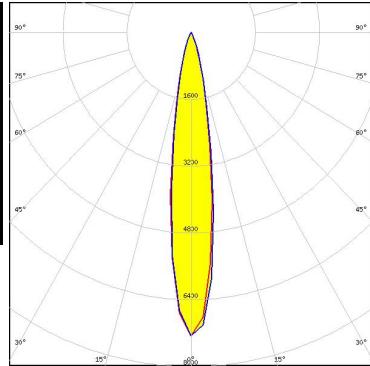
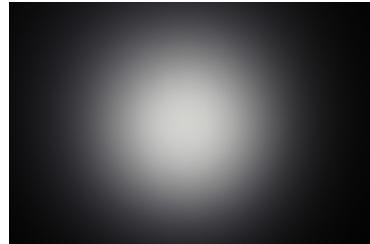


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):

CREE
LEDS

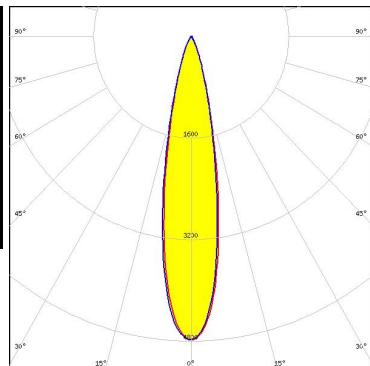
LED XB-H
FWHM / FWTM 17.0° / 35.0°
Efficiency 87 %
Peak intensity 7.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

NICHIA

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



Light distribution files

OSRAM
Opto Semiconductors

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

Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM

Opto Semiconductors

LED OSLON SSL 80

FWHM / FWTM 12.0° / 28.0°

Efficiency 89 %

Peak intensity 10.1 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

[Light distribution files](#)

SAMSUNG

LED LH351A

FWHM / FWTM 18.0° / 37.0°

Efficiency 93 %

Peak intensity 4.1 cd/lm

LEDs/each optic 1

Light colour/type White

Required components:

[Light distribution files](#)

SEOUL SEMICONDUCTOR

LED Z5M1/Z5M2

FWHM / FWTM 16.0° / 33.0°

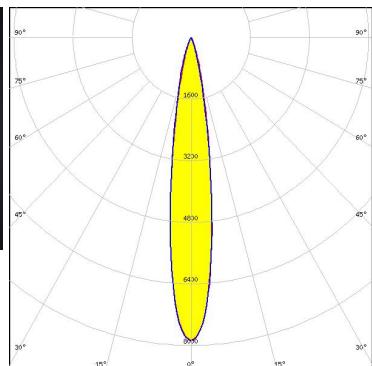
Efficiency 90 %

Peak intensity 7.9 cd/lm

LEDs/each optic 1

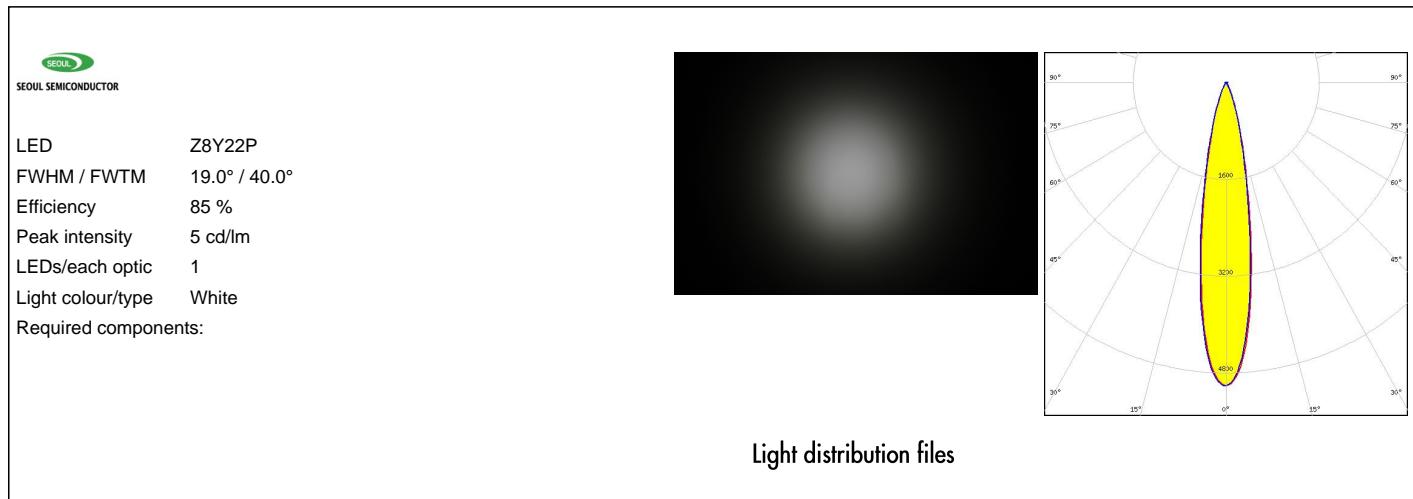
Light colour/type White

Required components:



[Light distribution files](#)

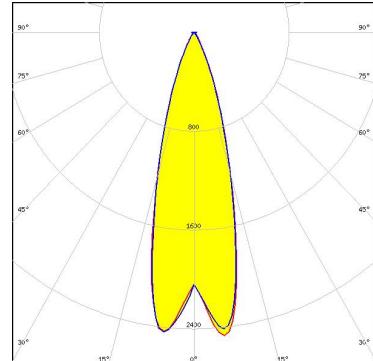
OPTICAL RESULTS (MEASURED):



OPTICAL RESULTS (SIMULATED):



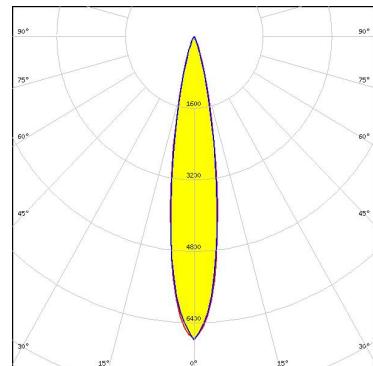
LED NCSxE17A
 FWHM / FWTM 30.0° / 52.0°
 Efficiency 85 %
 Peak intensity 2.5 cd/lm
 LEDs/each optic 4
 Light colour/type White
 Required components:



Light distribution files



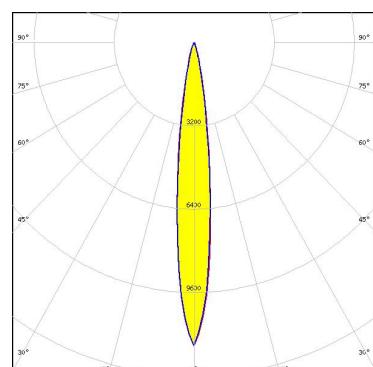
LED NVSxx19B/NVSxx19C
 FWHM / FWTM 18.0°
 Efficiency 88 %
 Peak intensity 7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED Duris E 2835
 FWHM / FWTM 13.0° / 28.0°
 Efficiency 92 %
 Peak intensity 11.7 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:

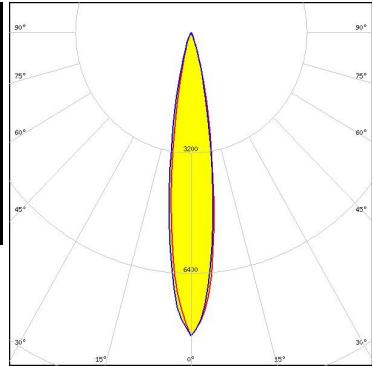


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

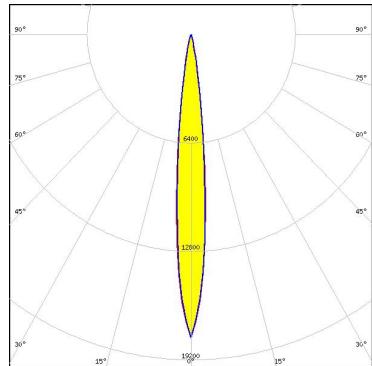
LED DURIS S5 (2 chip)
FWHM / FWTM 17.0° / 33.0°
Efficiency 92 %
Peak intensity 8.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SYNIO S2222
FWHM / FWTM 12.0 + 11.0° / 22.0°
Efficiency 97 %
Peak intensity 17.9 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

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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