

TINA3-S

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

SPECIFICATION:

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

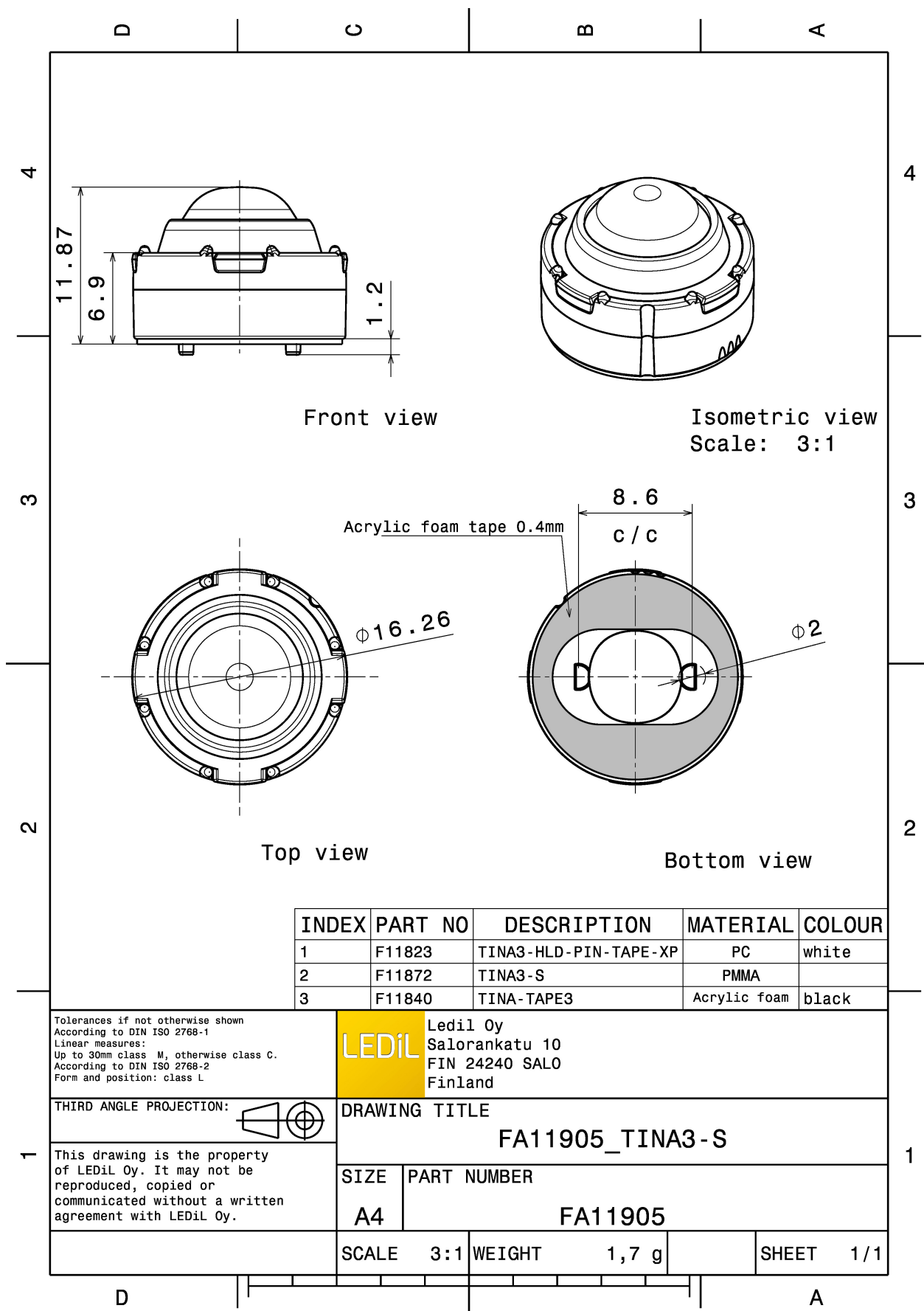


MATERIALS:

Component	Type	Material	Colour	Finish	Length (mm)
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	2016	288	288	3.7
» Box size:				

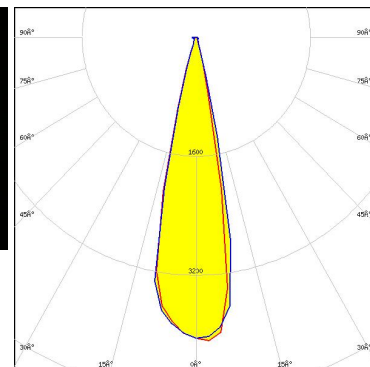
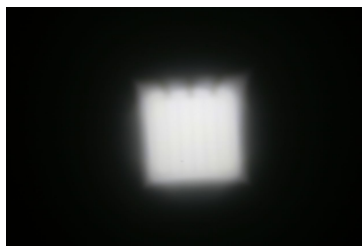


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



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



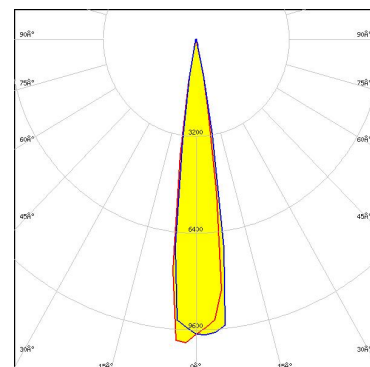
Light distribution files



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



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

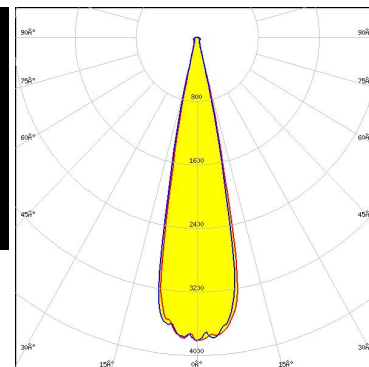


Light distribution files

OPTICAL RESULTS (MEASURED):



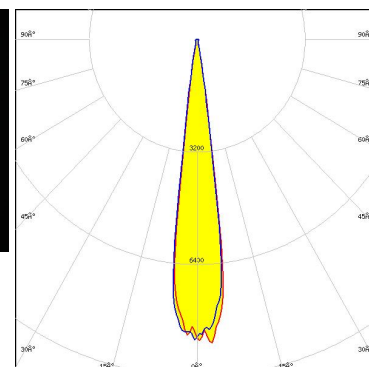
LED XP-L HD
 FWHM / FWTM 23.0° / 32.0°
 Efficiency 87 %
 Peak intensity 3.8 cd/m
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



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



Light distribution files



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



Light distribution files

OPTICAL RESULTS (MEASURED):



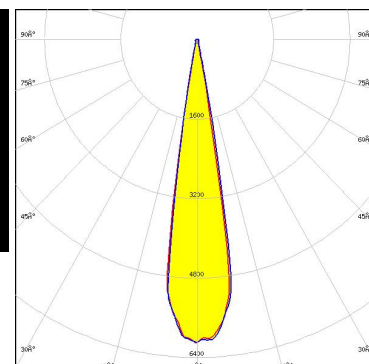
LED	LUXEON Rebel
FWHM / FWTM	11.0° / 18.0°
Efficiency	83 %
Peak intensity	12.9 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



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



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



Light distribution files

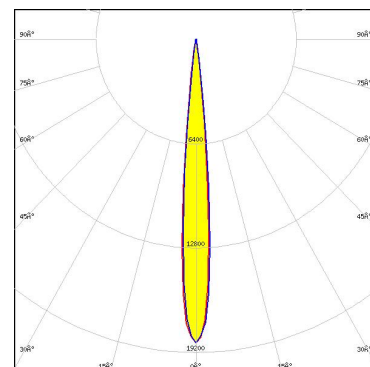
OPTICAL RESULTS (MEASURED):



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



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



Light distribution files



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

OPTICAL RESULTS (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/type	White

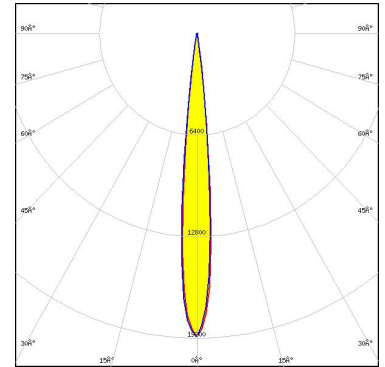
Required components:

Light distribution files

OPTICAL RESULTS (SIMULATED):



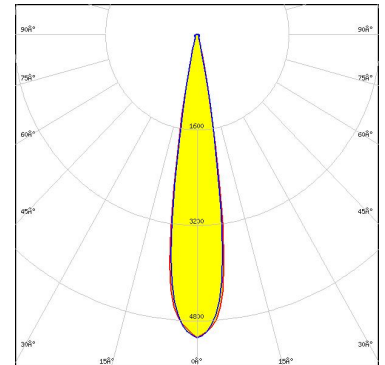
LED XP-E2
FWHM / FWTM 10.0° / 17.0°
Efficiency 92 %
Peak intensity 19.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



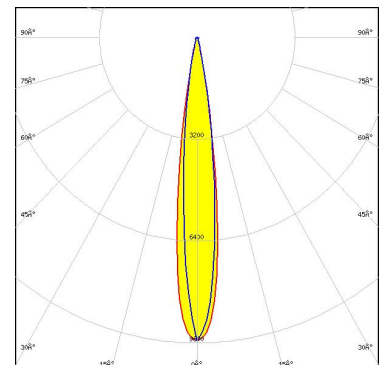
LED XP-G3
FWHM / FWTM 18.0° / 28.0°
Efficiency 78 %
Peak intensity 5.1 cd/lm
LEDs/each optic 1
Light colour/type Blue
Required components:



Light distribution files



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

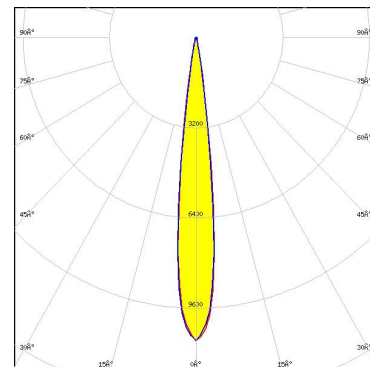


Light distribution files

OPTICAL RESULTS (SIMULATED):



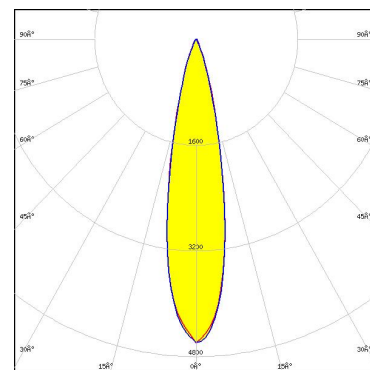
LED SST-20 Gen1
FWHM / FWTM 12.0° / 22.0°
Efficiency 86 %
Peak intensity 10.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



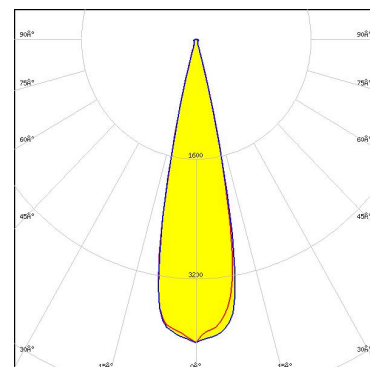
LED NV4WB35AM
FWHM / FWTM 22.0° / 41.0°
Efficiency 90 %
Peak intensity 4.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED NVSW519A
FWHM / FWTM 24.0° / 32.0°
Efficiency 82 %
Peak intensity 4.1 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

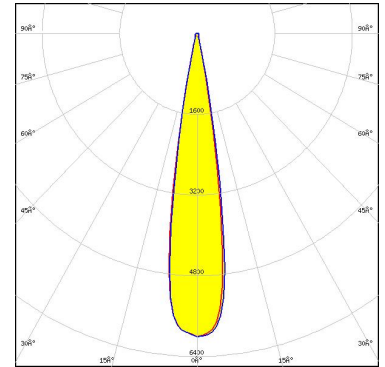


Light distribution files

OPTICAL RESULTS (SIMULATED):



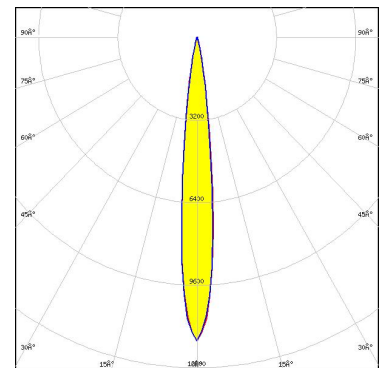
LED NVSxx19B/NVSxx19C
 FWHM / FWTM 18.0° / 26.0°
 Efficiency 83 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



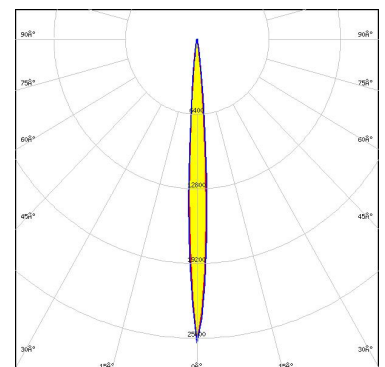
LED OSLOM Black
 FWHM / FWTM 12.0° / 23.0°
 Efficiency 86 %
 Peak intensity 11.8 cd/lm
 LEDs/each optic 1
 Light colour/type White
 Required components:



Light distribution files



LED SFH 4714A
 FWHM / FWTM 7.0° / 14.0°
 Efficiency 84 %
 Peak intensity 26 cd/lm
 LEDs/each optic 1
 Light colour/type IR
 Required components:

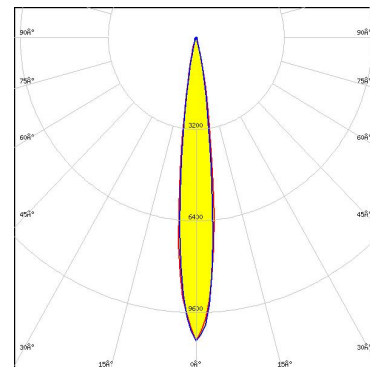


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

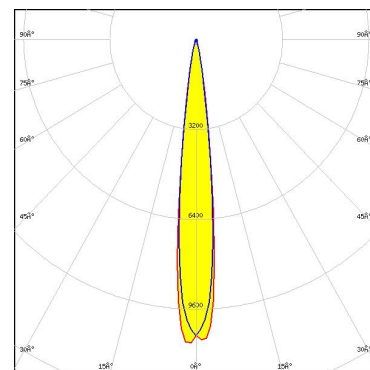
LED SFH 4715AS
FWHM / FWTM 13.0° / 25.0°
Efficiency 88 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

OSRAM
Opto Semiconductors

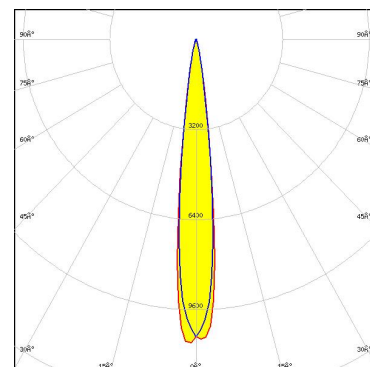
LED SFH 4715S
FWHM / FWTM 13.0° / 24.0°
Efficiency 87 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SFH 4725S
FWHM / FWTM 13.0° / 24.0°
Efficiency 87 %
LEDs/each optic 1
Light colour/type IR
Required components:

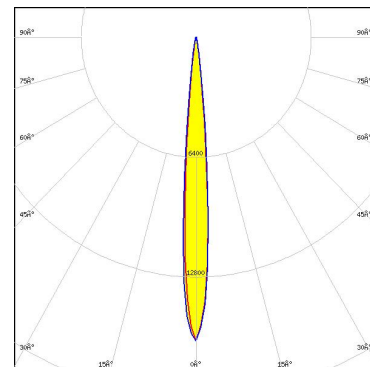


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

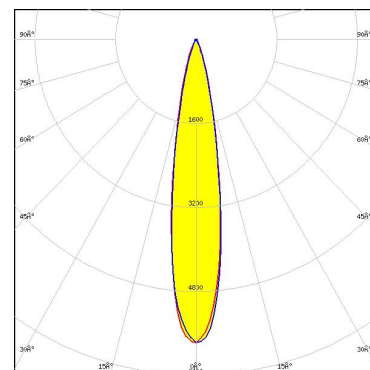
LED SFH 4726S
FWHM / FWTM 9.0° / 17.0°
Efficiency 84 %
LEDs/each optic 1
Light colour/type IR
Required components:



Light distribution files

SEOL
SEOUL SEMICONDUCTOR

LED Z8Y22
FWHM / FWTM 15.0° / 29.0°
Efficiency 80 %
Peak intensity 5.4 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:

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LEDiL Oy

Joensuunkatu 7
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

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