

TINA-O

~35° x 15° oval 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 ⓘ

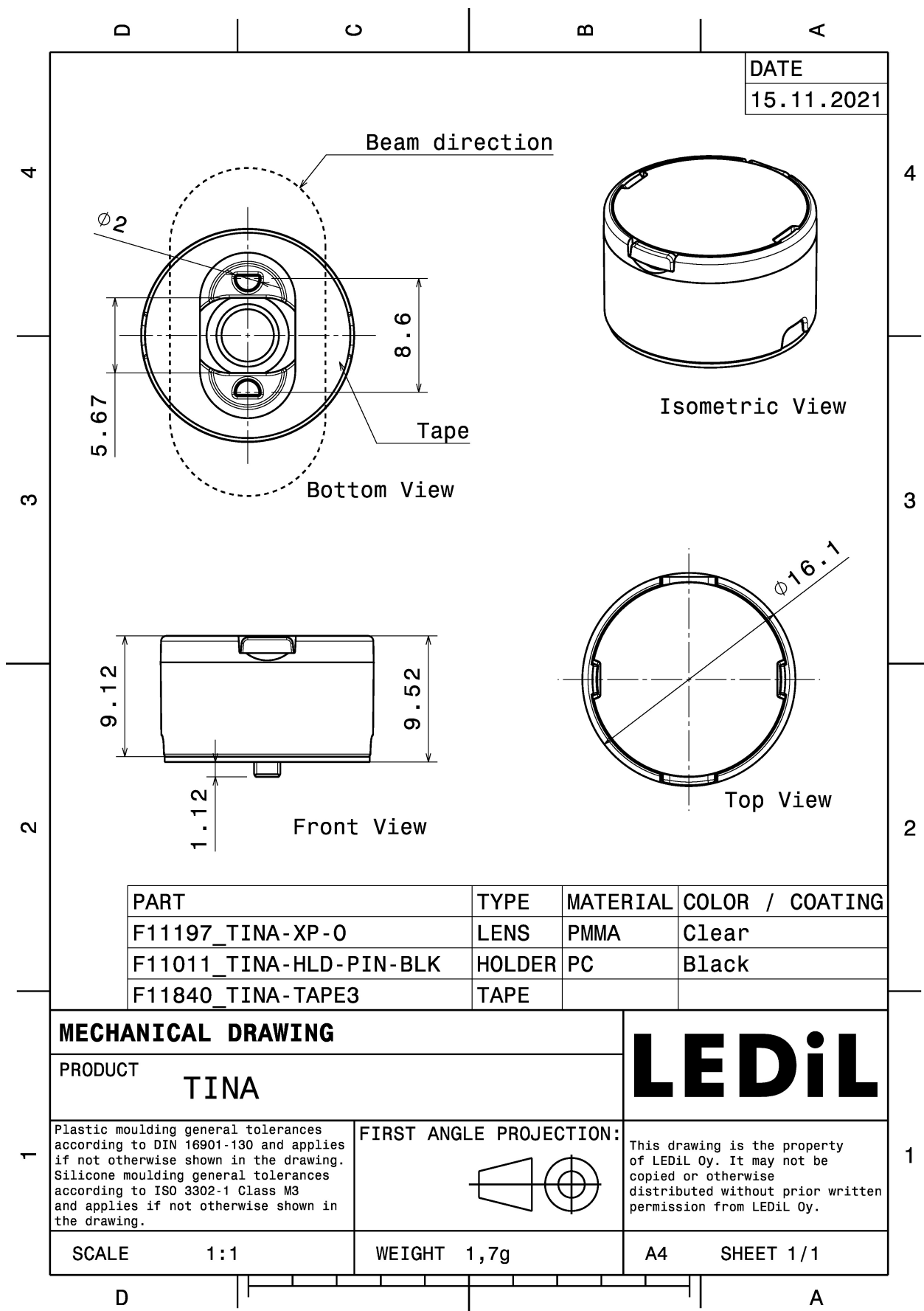


MATERIALS:

Component	Type	Material	Colour	Finish	Length
TINA-XP-O	Single lens	PMMA	clear		16.0
TINA-HLD-PIN-BLK	Holder	PC	black		16.0
TINA-TAPE3	Tape	Acrylic foam	black		16.0

ORDERING INFORMATION:

Component	Qty in box	MOQ	MPQ	Box weight (kg)
FA11204_TINA-O	2016	288	144	4.1
» Box size:				

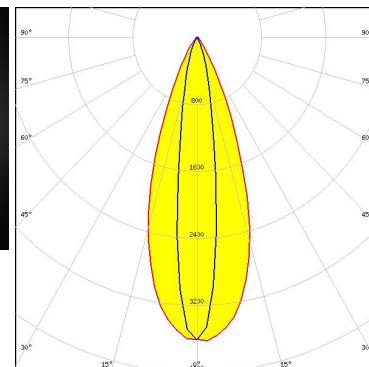
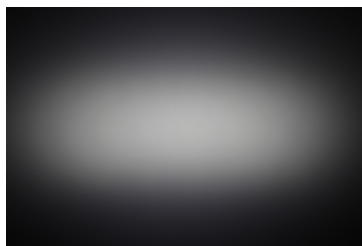


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



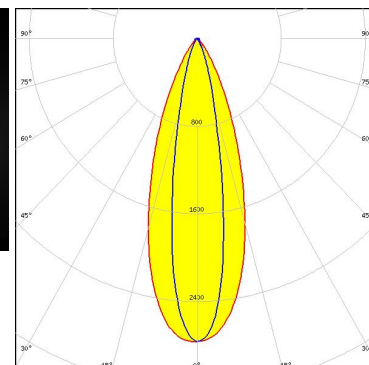
LED XB-H
FWHM / FWTM 38.0 + 16.0° / 63.0 + 37.0°
Efficiency 83 %
Peak intensity 3.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



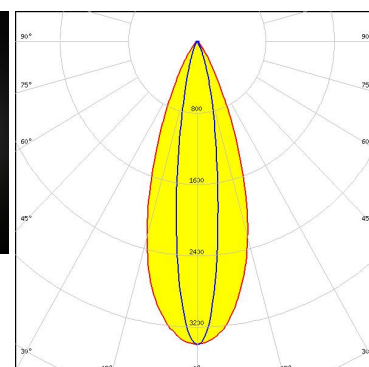
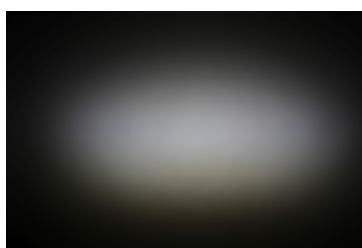
LED NVSW3x9A
FWHM / FWTM 37.0 + 20.0° / 67.0 + 41.0°
Efficiency 82 %
Peak intensity 2.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files



LED Duris S5 (2 chip)
FWHM / FWTM 38.0 + 16.0° / 64.0 + 37.0°
Efficiency 86 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

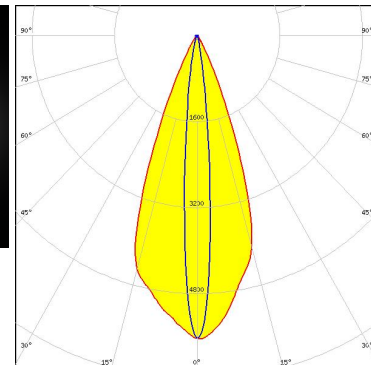


Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED OSLON Black Flat (LUW HWQP)
FWHM / FWTM 40.0 + 10.0° / 57.0 + 22.0°
Efficiency 86 %
Peak intensity 5.6 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED OSLON SSL 150
FWHM / FWTM 32.0 + 14.0° / 58.0 + 30.0°
Efficiency 91 %
Peak intensity 3.3 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OSRAM
Opto Semiconductors

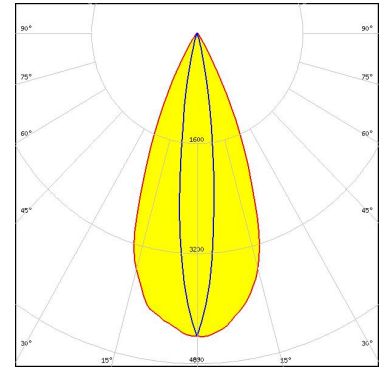
LED OSLON SSL 80
FWHM / FWTM 34.0 + 12.0° / 56.0 + 32.0°
Efficiency 80 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (MEASURED):

OSRAM
Opto Semiconductors

LED SFH 4715S
FWHM / FWTM 40.0 + 16.0° / 31.0 + 60.0°
Efficiency 0 %
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

LED SFH 4725S
FWHM / FWTM 39.0 + 15.0° / 62.0 + 32.0°
Efficiency %
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

SAMSUNG

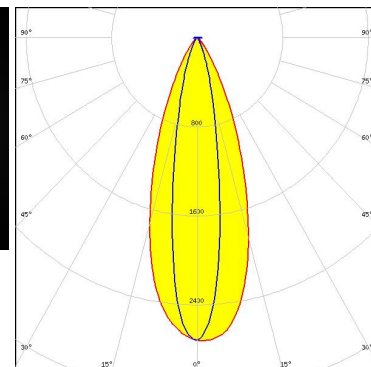
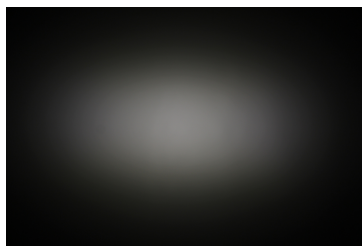
LED LH351A
FWHM / FWTM 34.0 + 16.0° / 62.0 + 39.0°
Efficiency 90 %
Peak intensity 2.5 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:

Light distribution files

OPTICAL RESULTS (MEASURED):



LED Z8Y22P
FWHM / FWTM 37.0 + 18.0° / 66.0 + 41.0°
Efficiency 79 %
Peak intensity 2.7 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

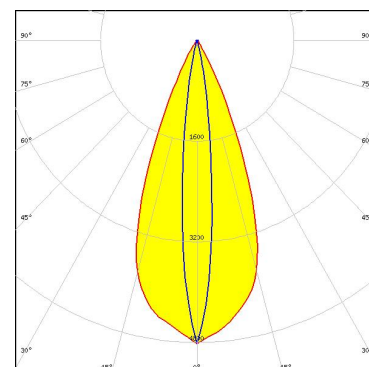
OPTICAL RESULTS (SIMULATED):



LED	LUXEON Z ES
FWHM / FWTM	40.0 + 11.0° / 60.0 + 24.0°
Efficiency	91 %
Peak intensity	5.3 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



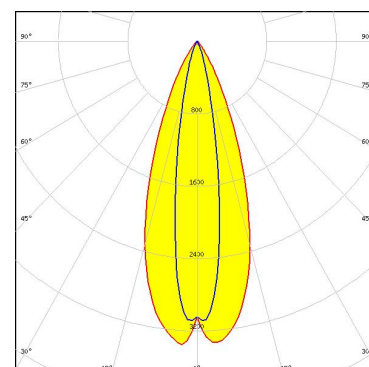
LED	NCSxE17A
FWHM / FWTM	42.0 + 12.0° / 60.0 + 24.0°
Efficiency	88 %
Peak intensity	4.8 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	



Light distribution files



LED	NVSxx19B/NVSxx19C
FWHM / FWTM	38.0 + 17.0°
Efficiency	85 %
Peak intensity	3.5 cd/lm
LEDs/each optic	1
Light colour/type	White
Required components:	

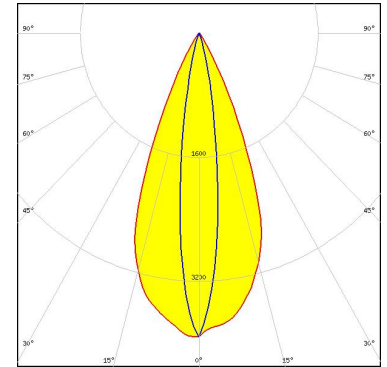


Light distribution files

OPTICAL RESULTS (SIMULATED):

OSRAM
Opto Semiconductors

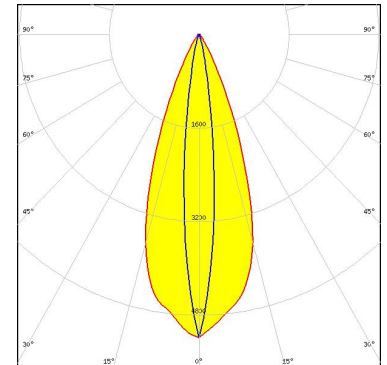
LED SFH 4715AS
FWHM / FWTM 44.0 + 15.0° / 62.0 + 30.0°
Efficiency 89 %
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

OSRAM
Opto Semiconductors

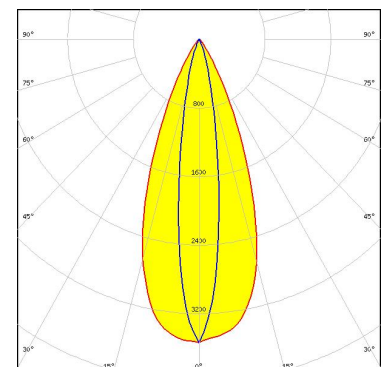
LED SYNIOS S2222
FWHM / FWTM 38.0 + 12.0° / 61.0 + 26.0°
Efficiency 96 %
Peak intensity 5.2 cd/lm
LEDs/each optic 1
Light colour/type White
Required components:



Light distribution files

SAMSUNG

LED LM302D
FWHM / FWTM 41.0 + 16.0° / 64.0 + 34.0°
Efficiency 88 %
Peak intensity 3.5 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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