

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 ⓘ

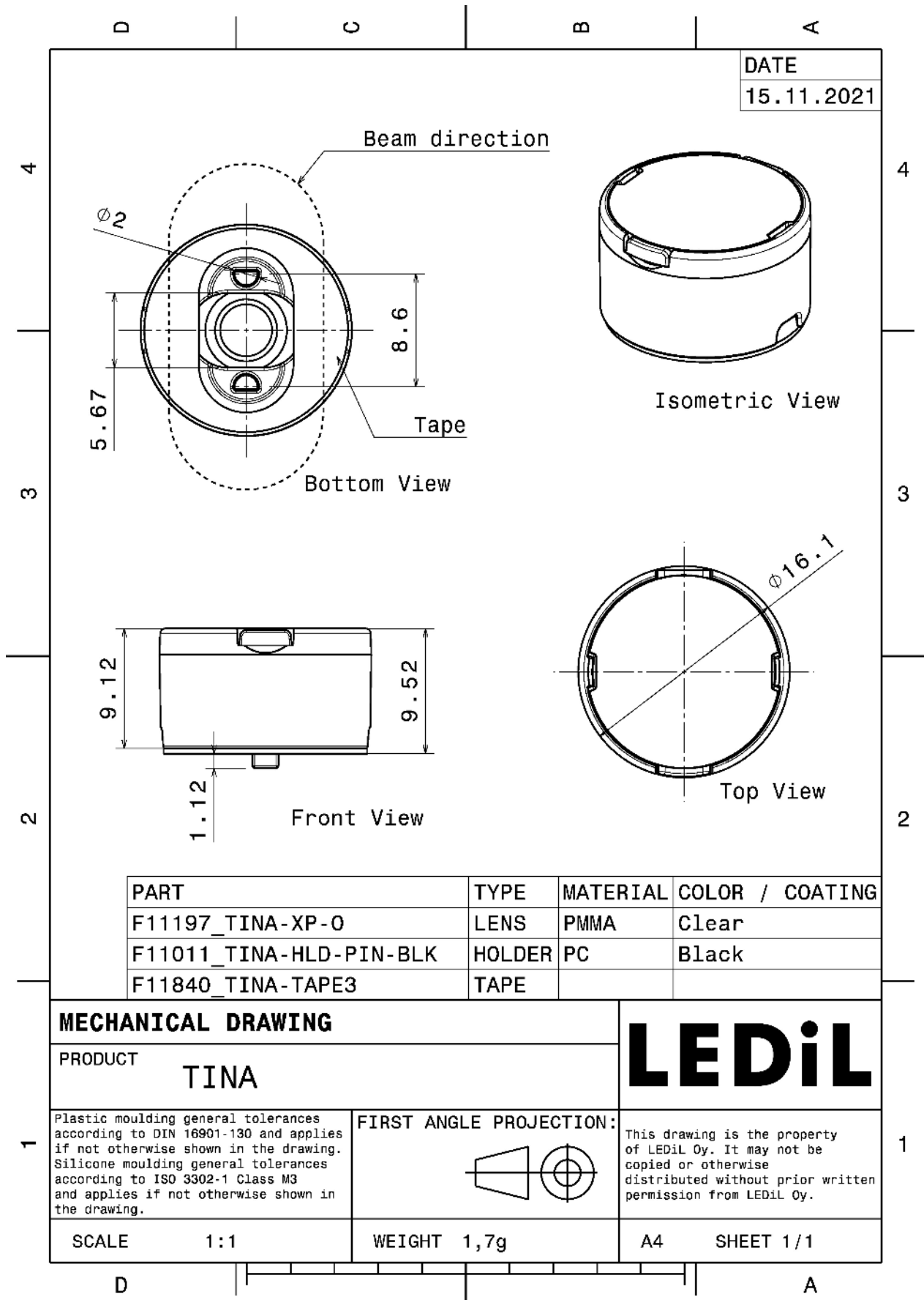


MATERIALS:

Component	Type	Material	Colour	Finish
TINA-XP-O	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)
FA11204_TINA-O	Single lens	2016	288	144	4.1
» Box size:					



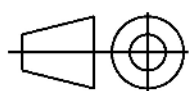
MECHANICAL DRAWING

PRODUCT
TINA

LEDiL

Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.

FIRST ANGLE PROJECTION:



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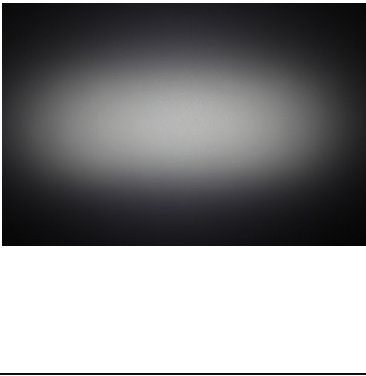
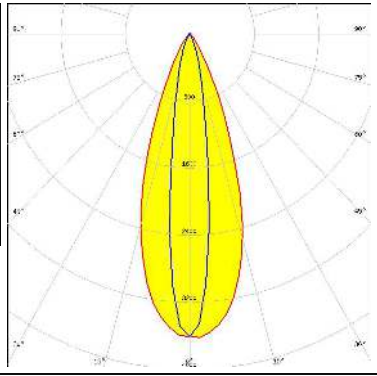

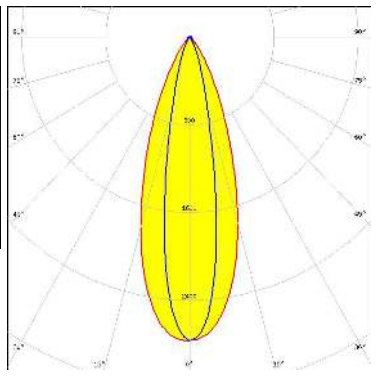

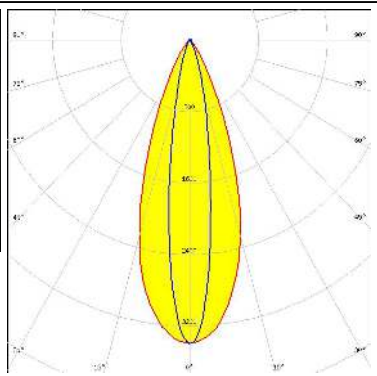

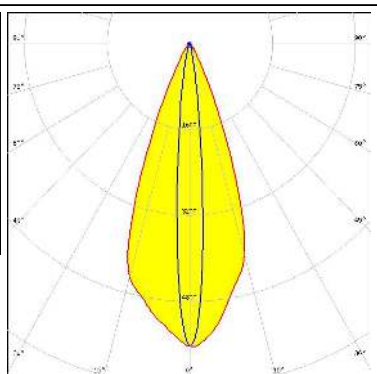
SCALE 1:1

WEIGHT 1,7g

A4 SHEET 1/1

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

OPTICAL RESULTS (MEASURED):

<p>CREE LED</p> <p>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 White Required components:</p>		
<p>NICHIA</p> <p>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 White Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>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 White Required components:</p>		
<p>OSRAM Opto Semiconductors</p> <p>LED OSLOn Black Flat FWHM / FWTM 40.0 + 10.0° / 57.0 + 22.0° Efficiency 86 % Peak intensity 5.6 cd/lm LEDs/each optic 1 Light colour White Required components:</p>		

OPTICAL RESULTS (MEASURED):

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 White
 Required components:

OSRAM

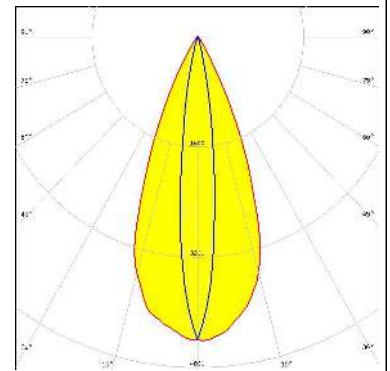
Opto Semiconductors

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 White
 Required components:

OSRAM

Opto Semiconductors

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



OSRAM

Opto Semiconductors

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

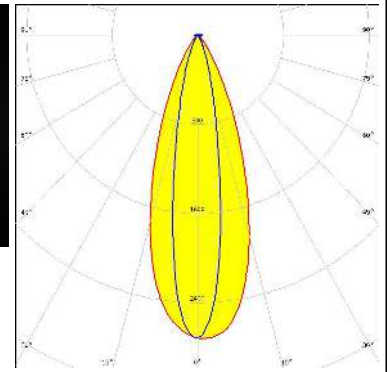
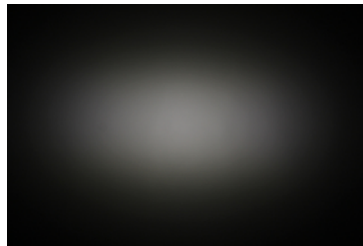
OPTICAL RESULTS (MEASURED):

SAMSUNG

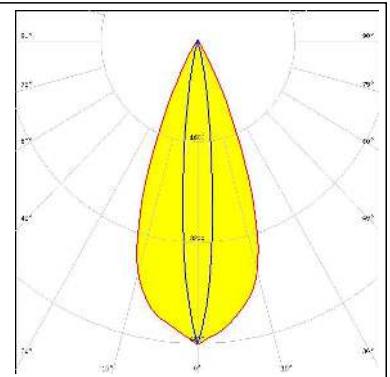
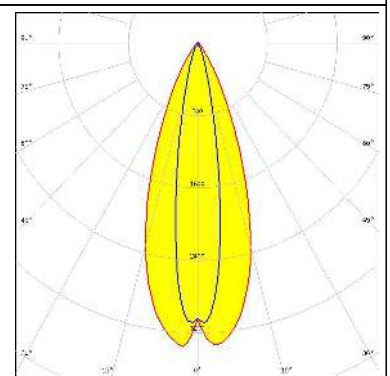
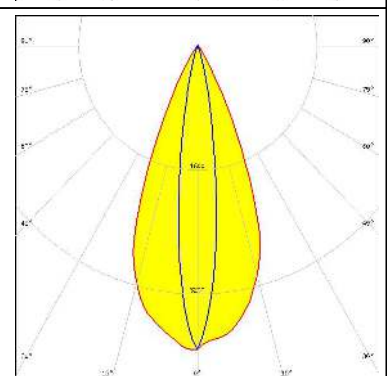
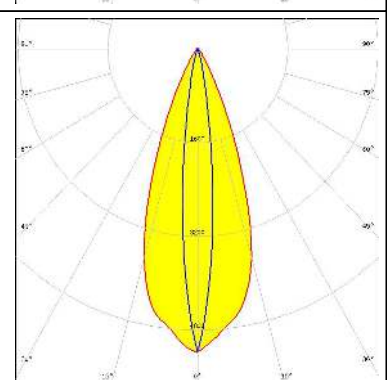
LED LH351A
FWHM / FWTM 34.0 + 16.0° / 62.0 + 39.0°
Efficiency 90 %
Peak intensity 2.5 cd/m
LEDs/each optic 1
Light colour White
Required components:



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



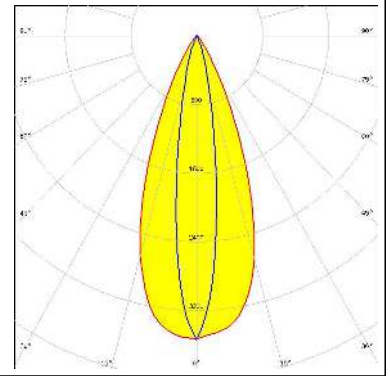
OPTICAL RESULTS (SIMULATED):

<p>NICHIA</p> <p>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: White Required components:</p>	
<p>NICHIA</p> <p>LED: NVSxx19B/NVSxx19C FWHM / FWTM: 38.0 + 17.0° Efficiency: 85 % Peak intensity: 3.5 cd/lm LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>LED: SFH 4715AS FWHM / FWTM: 44.0 + 15.0° / 62.0 + 30.0° Efficiency: 89 % LEDs/each optic: 1 Light colour: White Required components:</p>	
<p>OSRAM Opto Semiconductors</p> <p>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: White Required components:</p>	

OPTICAL RESULTS (SIMULATED):

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	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:

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.

PRODUCT DATA USER AGREEMENT AND DISCLAIMER:

The measured data in the provided downloadable LEDiL Product Datasheets and Mechanical 2D-Drawings is rounded and provided as reference for planning. LEDiL Oy's optical specifications have been verified by conducting performance testing of the products in accordance with the company's quality system. The reported data are averaged results of multiple measurements with typical variation. LEDiL Oy reserves the right to without prior notification make changes and improvements to its products.

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