

## 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 ⓘ

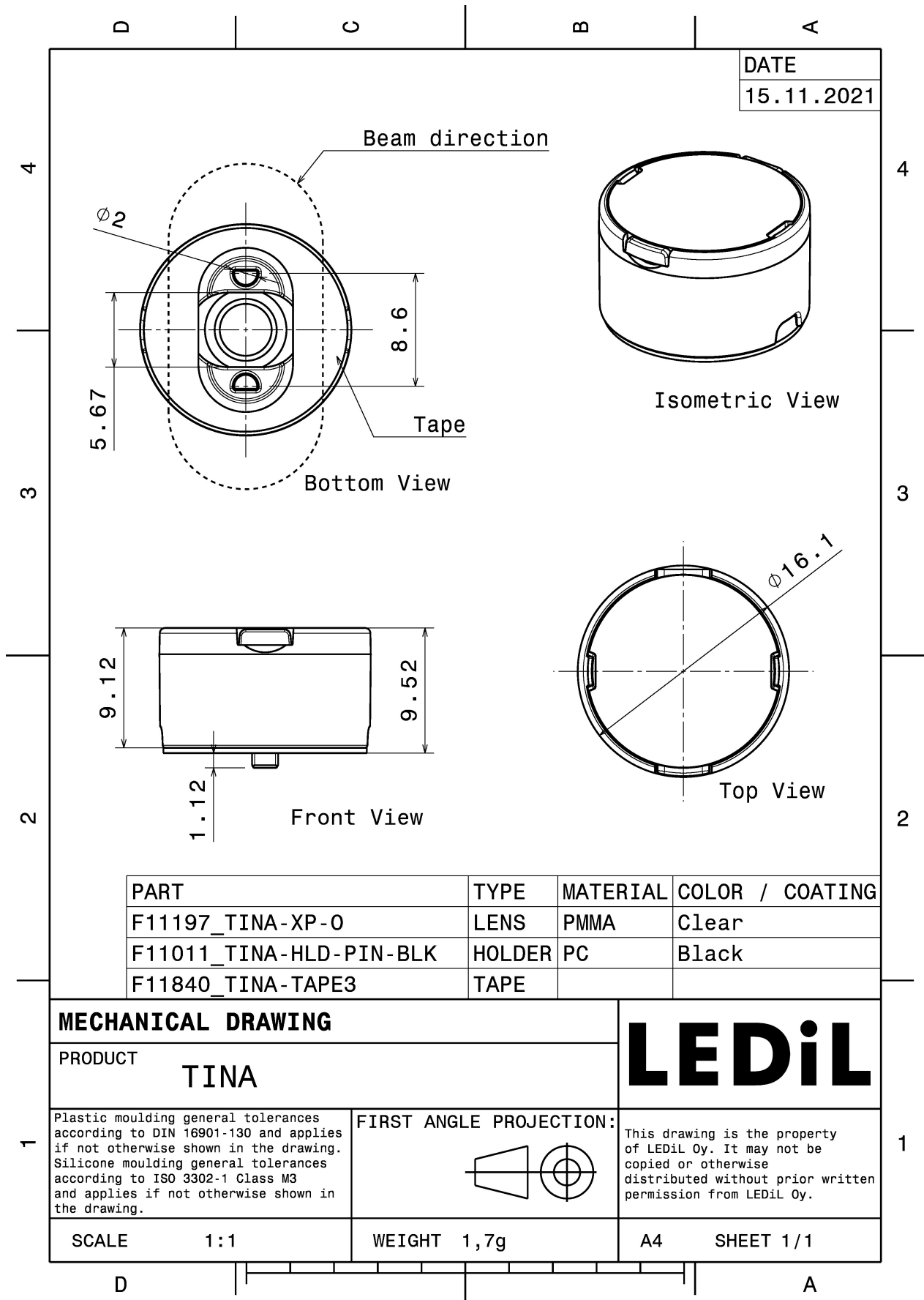


### MATERIALS:

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:					



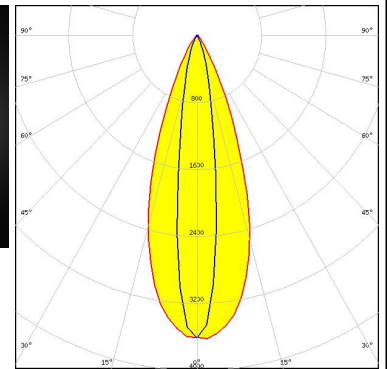
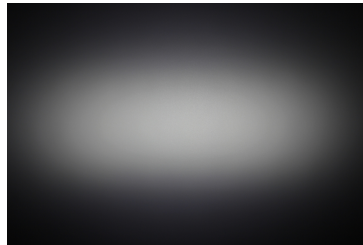
<b>MECHANICAL DRAWING</b>		<b>LEDiL</b>
PRODUCT <b>TINA</b>		
Plastic moulding general tolerances according to DIN 16901-130 and applies if not otherwise shown in the drawing. Silicone moulding general tolerances according to ISO 3302-1 Class M3 and applies if not otherwise shown in the drawing.	FIRST ANGLE PROJECTION: 	This drawing is the property of LEDiL Oy. It may not be copied or otherwise distributed without prior written permission from LEDiL Oy.
SCALE 1:1	WEIGHT 1,7g	A4 SHEET 1/1

See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

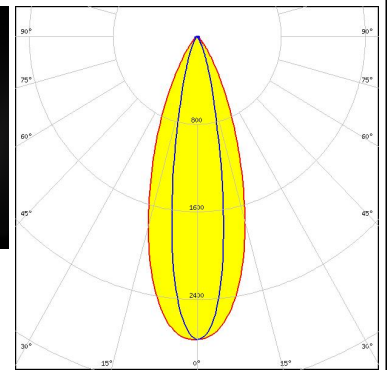
### OPTICAL RESULTS (MEASURED):



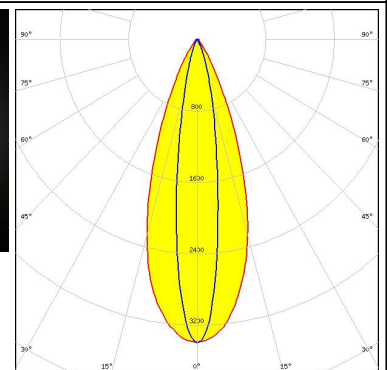
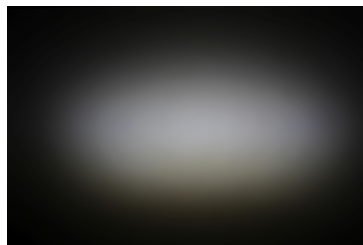
LED XB-H  
 FWHM / FWTM 38.0 + 16.0° / 63.0 + 37.0°  
 Efficiency 83 %  
 Peak intensity 3.6 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



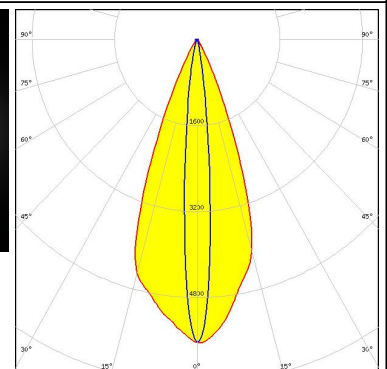
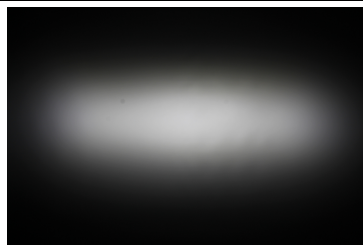
LED NVSW3x9A  
 FWHM / FWTM 37.0 + 20.0° / 67.0 + 41.0°  
 Efficiency 82 %  
 Peak intensity 2.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



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



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



### OPTICAL RESULTS (MEASURED):

#### OSRAM

Opto Semiconductors

LED OSLOM 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

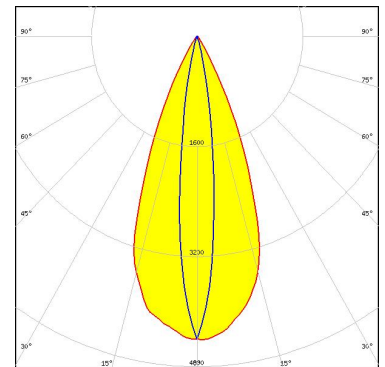
Opto Semiconductors

LED OSLOM 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):

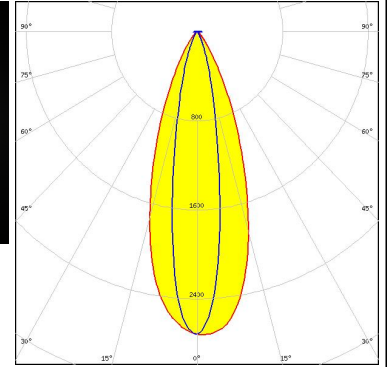
#### SAMSUNG

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:

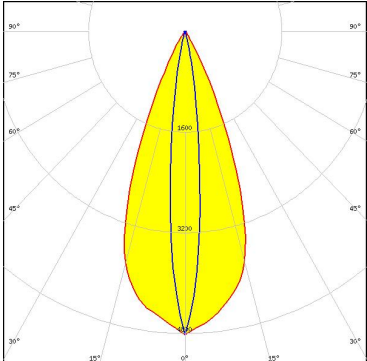
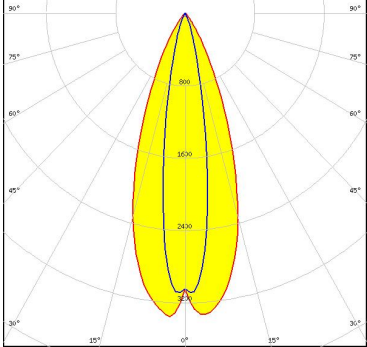
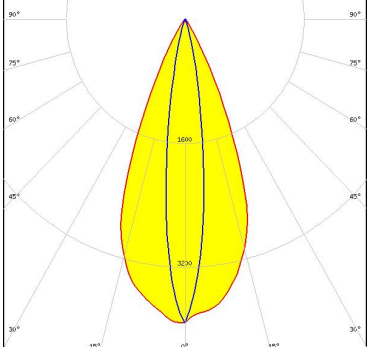
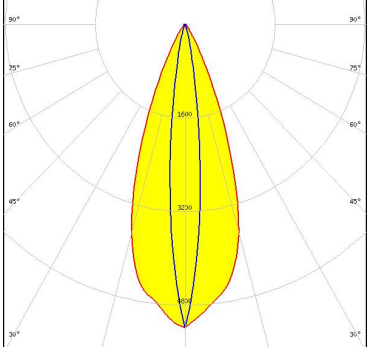


SEOUL SEMICONDUCTOR

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><b>NICHIA</b></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><b>NICHIA</b></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><b>OSRAM</b> 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><b>OSRAM</b> 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:	

