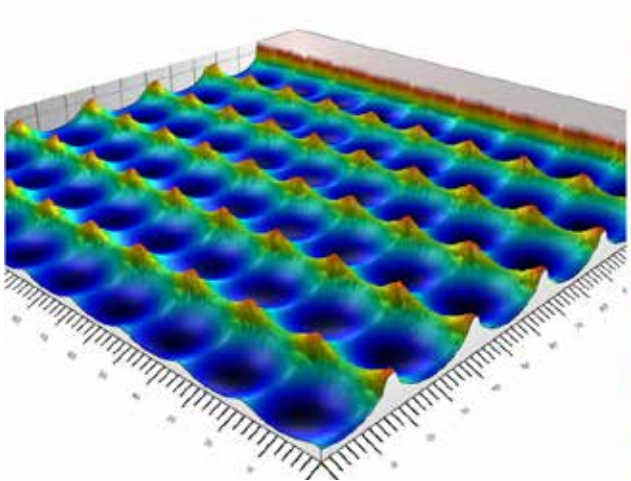


## Light Shaping Micro Optics

Luminit now utilizes in-house direct-writing of masters to bring custom micro-optics design straight from conception to high volume production. Our greyscale photolithography and advanced microscopy tools allow the creation of refractive and diffractive optics, with feature sizes down to 1 micron. With design, mastering, replicating, testing and measuring under one roof, advantages for customers include compressed design cycles and simplified supply chains. Optical outputs include flat-top intensity profiles, random dot generators, pattern generators, custom diffuser profiles, Fresnel lenses, phase plates, and custom logos or graphics. Components can be manufactured by injection molding, roll-to-roll embossed, or sheet-by-sheet embossed, depending on thickness, temperature, and volume requirements.



### Capabilities

- Precision, high-volume plastic optics
- 3D surface relief creation
- Smooth or pixelated greyscale designs
- Multi-layer alignment and measurement tools
- Surface and profile measurement tools
- 3D Measurements
- Custom refractive optics design
- Custom diffraction optics design

### Applications

- LIDAR
- Branding projection
- Facial recognition
- Iris recognition
- Time of Flight
- Gesture Recognition
- Beam Shaping
- Structured Lighting
- Random dot generator

## Specifications

Max Area:	8" x 8"
Minimum Feature Size, XY:	800 nm
Minimum Grid Size, XY:	200 nm
Number of Z levels (single exposure):	256
Maximum Depth (to date):	200um