

Broadcom Micro Optics Design & Fabrication Capabilities

Diffraction Optics

- Diffusers
- Beam Shapers
- Beam Steering Optics
- Pattern/Spot Array Generators
- Gratings
- Homogenizers
- Beam Splitters
- Chromatic Correctors

Refractive Optics

- Spherical & Aspherical Lenses
- Full Fill Factor Lens Array (Fly's Eyes)
- 1D & 2D Micro Lens Arrays

Planar Light guide Circuits (PLCs)

- AWG optical Mux/De-Mux chips

Process Capability

- Diffraction and Refractive Lens Design
- Wafer-wafer bonding
- Complex and Integrated elements
- Double-sided Wafer Processing
- Metal Patterns & Apertures
- Dielectric Coatings
- Wafer-wafer bonding
- PLC Silica-on-Silicon Waveguides

Volume Manufacturing

- Precision Metrology and Test
- Wafer Dicing, Automated Visual Inspection
- ISO9001 certified, 1k/10k/100k clean room

Facility

- Founded in 1992 as Digital Optics Corporation. Broadcom acquisition in 2014
- Full Design, analysis, fabrication and test capability
- 100,000 Ft² facility located in Charlotte, NC

