Broadcom Micro Optics
Design & Fabrication Capabilities

**Diffractive 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**
- Diffractive 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**
- Full Design, analysis, fabrication and test capability
- 100,000 Ft² facility located in Charlotte, NC