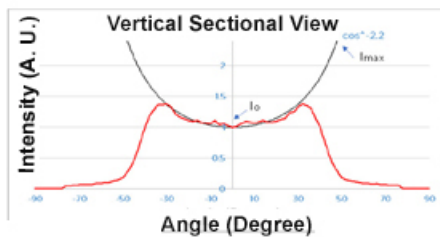
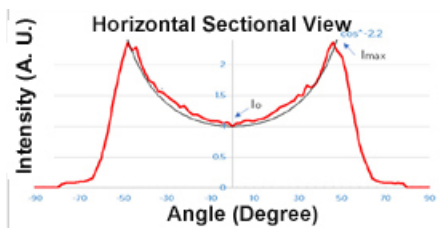
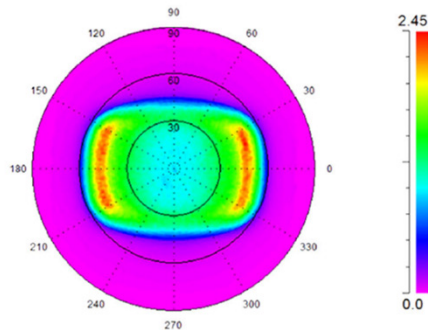


Luminit offers seven different large angle Flat Top Diffusers (FTDs) in a polymer-on-glass (POG) format. Our polymer-on-glass diffusers are compatible with standard solder reflow processes that are used in the semiconductor industry to mount surface-mount technology (SMT) components to PCBs and other electronic assemblies. These custom Light Shaping Micro-optics are on thin (0.4mm) glass that allows precise beam control for 3D sensing in automotive, consumer electronics, and autonomous drone applications. Utilizing proprietary pseudo randomized micro-lens features, we can achieve uniform illumination patterns that do not exhibit any coherent diffractive effects.

Measured Intensity

Polar Projection of Far-Field Intensity



Angles (FWof I₀/2)

- 148°x 98°
- 120°x 90°
- 20°x190°
- 125°x30°
- 110°x80°
- 47°x41°
- 90°x70°

Applications

- Consumer Electronics
- Autonomous Vehicles
- Autonomous Drones
- 3D Sensing

Specifications

Substrate: Polymer on glass
 Thickness: 0.4mm
 Automotive Certified Heat cycle test: -40°C ↔ 125°C
 1,000 cycles 85wt%/85°C test:1,000 hrs.