

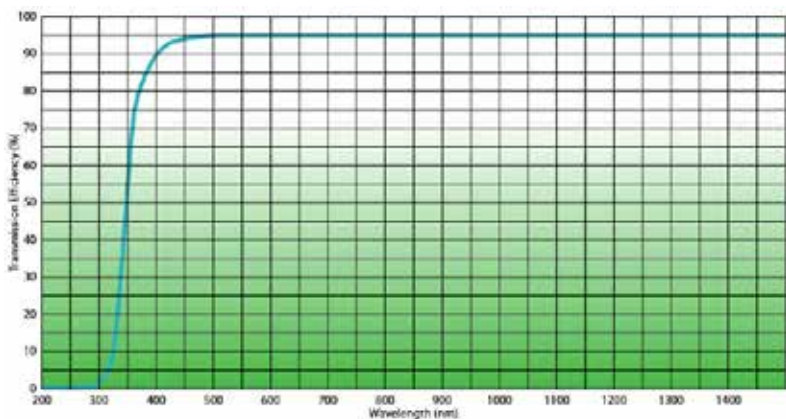
Glass-on-Glass Light Shaping Diffusers®

High Temperature/High Power Applications

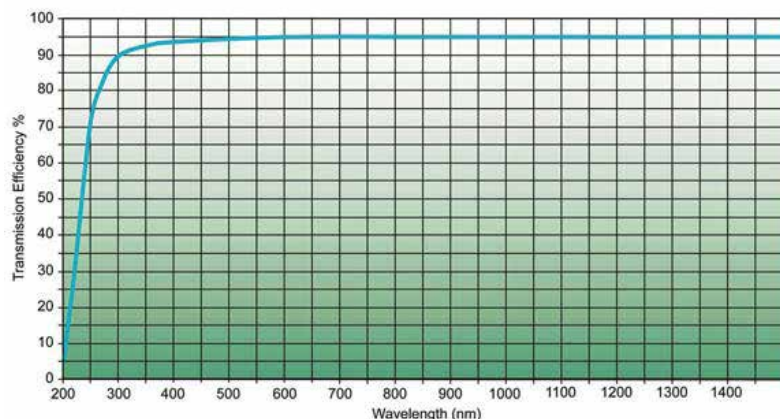
Designed for high temperature and high power applications, Luminit Glass on Glass Light Shaping Diffusers® offer superior UV transmission. A holographically recorded, randomized surface relief structure is replicated in a layer on the surface of a UV silica or B270 substrate. The precise surface relief structures provide high transmission efficiency (up to 92%) and controlled beam angle divergence while providing high quality homogenized light.

	Angles (FWHM)	Temp.	Substrate	Size	Refractive Index	Laser Damage Threshold
Pure	0.5° - 12° Circular	500°C	Fused Silica	Up to 4-in. Diameter	1.46	8J/cm ²
Hybrid1	0.5° - 50° Circular	275°C	Fused Silica	Up to 4-in. Diameter	1.46	2.6J/cm ²
Hybrid2	0.5° - 60° Circular & Elliptical	150°C	B270	Up to 8-in. x 8-in. Diameter	1.51	N/A

- High temperature: Up to 500°C stable
- High laser damage threshold: 8J/cm² (1064nm, 10ns pulse laser)
- Excellent UV transmission: 85% and higher at 240nm and higher



LSD on B270 Transmission Performance



LSD on UV Glass Transmission Performance