

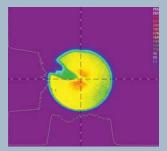
Glass-On-Glass Light Shaping Diffusers[®]

Luminit announces a new line of Light Shaping Diffusers (LSD's) that offer superior UV transmission and are designed for high temperature and high power laser environments.

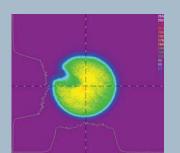
These Glass-On-Glass LSD Diffusers are particularly applicable to biomedical instrumentation and other high damage threshold applications. UV products offering very high transmission efficiency of UV radiation are also available. Custom sizes are available to fit your application.

A holographically recorded, randomized surface relief structure is replicated on a glass surface on a float glass or UV silica substrate. The precise surface relief structures provide high transmission efficiency (up to 92%) and controlled angular distribution while providing high-quality homogenized light.

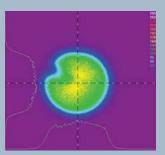
Following are examples of homogenizing the output of a 633nm HeNe Laser.



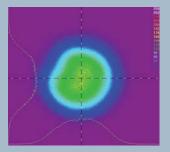
No Diffuser



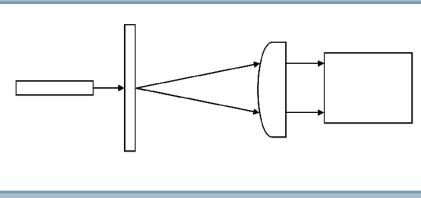
0.5° Diffuser, 5mm after Fiber



1° Diffuser, 5mm after Fiber

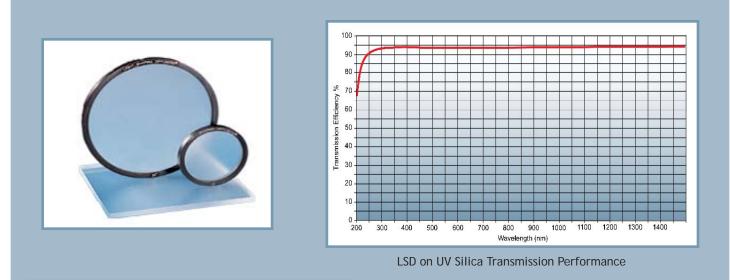


5° Diffuser, 5 mm after Fiber



Homogenization of High Power Laser Source

Luminit is a world-wide leader in technical innovation in the transmission of light. Our broad product line of Light Shaping Diffusers and custom designed solutions can be tailored to your most exacting needs.



LSD Ultra-High Temperature/Power Glass Diffuser					
Angle FWHM	500°C Stable Substrate & Thickness	Size	LSD High Tem	perature/Power 170°C Stable Substrate &	<i>Glass Diffuser</i> Size
0.5° to 14°	Fused Silica Glass B270	25mm Dia. 50mm Dia.	FWHM	Thickness	
	3mm	2" x 2"	0.5° to 50°	Fused Silica Glass B270	25mm Dia. 50mm Dia.
Custom angles* Laser Damage TI	nreshold (8J/cm²)	Custom sizes*	Custom angles*	3mm	2" x 2" Custom sizes*

*Please call (310) 320-1066 for more information

Note that all specifications contained herein are subject to change without notice.



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