



Light Shaping Diffusers®

Architectural and Event Lighting

The conventional design of lighting systems is changing from larger extended sources to smaller discrete ones due to the increased availability of cost effective, high brightness LEDs. These new designs require diffusers capable of delivering uniformity and beam shaping at high transmission rates. With the largest library of diffusion angles in circular or elliptical profiles, Luminit Light Shaping Diffusers® provide practical solutions to lighting designers. Whether used for general lighting or custom applications, Luminit LSDs can set a mood, flood a wall, brighten a hallway, or illuminate a stage with unsurpassed results.

Features

- Reduces color over angle and improves color mixing
- Precise beam angle control
- Very high transmission
- High-quality, uniform output
- Useful for multi-color wall wash applications
- UV blocking polycarbonate available for outdoor applications

Applications:

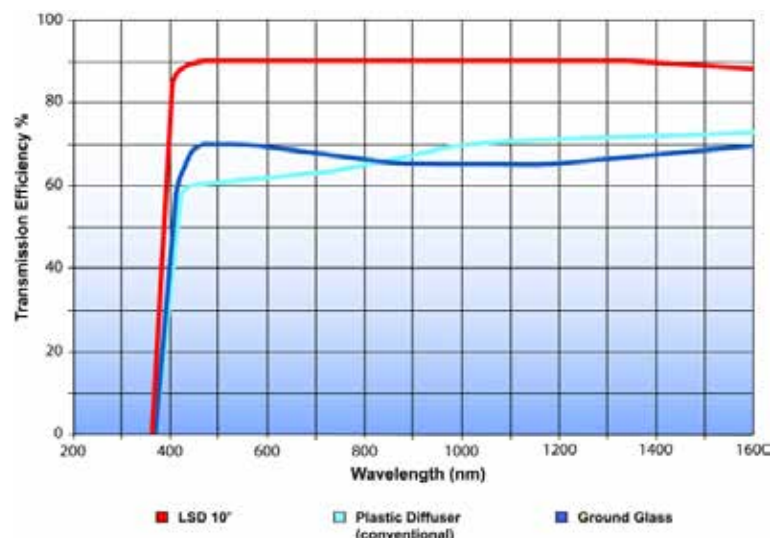
- Interior/exterior architectural structures
- Entertainment/concert lighting
- Museums and exhibitions

Transmission Efficiency:

- 85-92% dependent on angle and wavelength
- 88-92% over visible spectrum (typical)

Transmission Wavelength:

- 400-1500nm for standard polyester, polycarbonate and acrylic



Specifications

Brightness Uniformity: $\geq 85\%$

Temperature Range:

Polyester and Polycarbonate: -30°C to 80°C

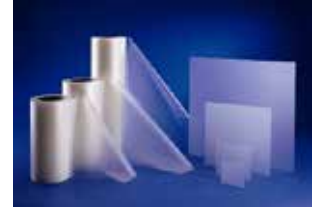
Acrylic: -40°C to 80°C

Humidity: Cycled at 95% for 24 hours

Formats

Available in seamless film and sheets.

Custom OEM products, including a variety of angles, sizes, shapes, cut to print parts, and substrate materials including two-sided diffusers (PCS), color tints, and low birefringent



LSD Film Options

Angles (FWHM)	Substrate & Thickness	Size
80°x50°	Polycarbonate	24" x 24"
60°x10°	P1 - 0.010"	
30°x3°	Polyester	Roll Width
60°	E5 - 0.005"	24"
30°		Options
20°		Protective Film
10°		Pressure
5°		Sensitive
1°x60°		Adhesive (PSA)
1°x40°		
60°x1°		
15°x1°		
60°x30°		
50°x3°		
40°x10°		
30°x1°		

LSD Sheet Options

Angles (FWHM)	Substrate & Thickness	Size
90°x60°		20" x 20"
95°x25°	Polycarbonate	
75°x45°	P8 - 0.118"	
60°x10°	P3 - 0.030"	Options
60°x1°	P6 - 0.060"	Protective Film
40°x1°		
30°x5°		Pressure Sensitive
30°x1°		Adhesive (PSA)
80°		
60°		
40°		
30°		
20°		
10°		
5°		
2°		
1°		
0.5°		

All specifications contained herein are subject to change without notice.