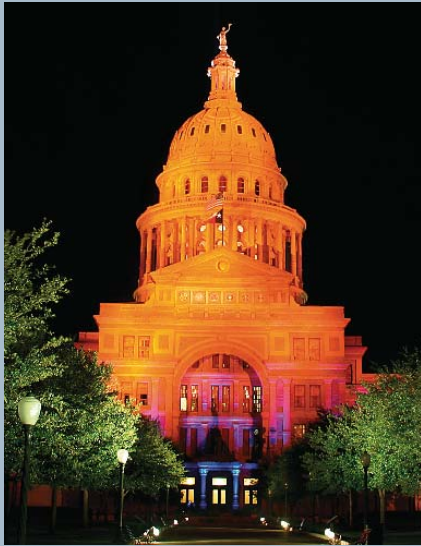




Architectural/Event Lighting Diffusers

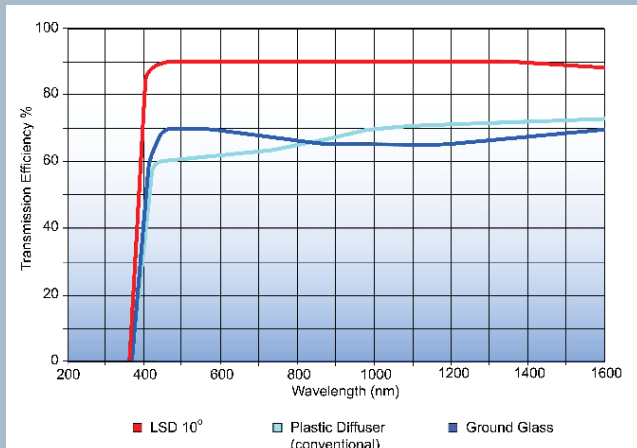


Location Lighting using Luminit Light Shaping Diffusers

Do you need to set a mood, flood a wall, brighten a hallway, illuminate a concert or light up the Eiffel Tower? The solution to any lighting project is the Luminit Light Shaping Diffuser® (LSD) product family.

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-output LED sources. These new designs require diffusers capable of delivering uniformity and directionality at high transmission rates. Mixing the emissions of multiple sources is an added benefit the LSD can provide.

Luminit has the LSD to make your design unsurpassed with diffuser angles ranging 0.5 degrees to 95 degrees in circular or elliptical profiles, as well as a large assortment of specialty products. The Luminit LSD product family will improve your designs, whether they are for general lighting or custom applications.

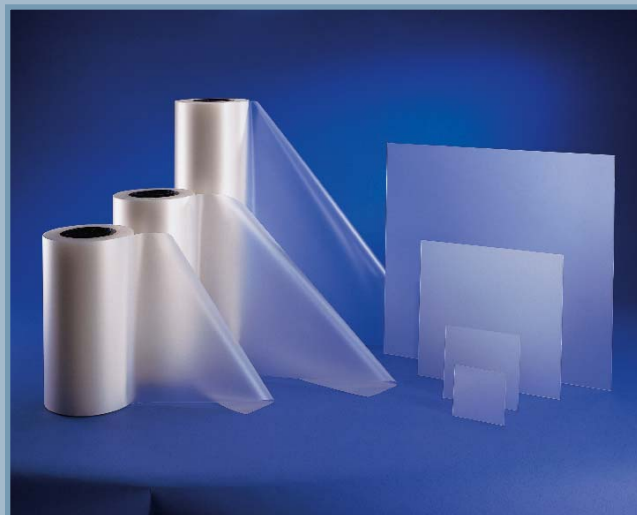


Transmission Efficiency Chart

Features

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

Transmission wavelength:
400-1600nm for standard polyester,
polycarbonate and acrylic



LSD Seamless Film and Sheets

<i>LSD Film Options</i>		
Angle FWHM	Substrate & Thickness	Size
95°x35°	<i>Polycarbonate</i>	12" x 12"
75°x35°	P1 - 0.010"	16" x 16"
60°x10°		Roll Width
80°	<i>Polyester</i>	20"
60°	E5 - 0.005"	36"
30°		Option
20°		PSA
10°		Protective
5°		Film

<i>LSD Sheet Options</i>			
Angle FWHM	Substrate & Thickness		Size
95°x60°	<i>Polycarbonate</i>	<i>Acrylic</i>	10" x 10"
95°x35°	P5 - 0.005"	A3 - 0.030"	12" x 12"
75°x35°	P1 - 0.010"	A6 - 0.060"	16" x 16"
60°x10°	P4 - 0.015"	A8 - 0.080"	20" x 20"
60°x1°	P2 - 0.020"	A1 - 0.125"	
40°x0.2°	P6 - 0.060"	<i>Acrylic-UVT</i>	Option
30°x5°	P8 - 0.125"	V3 - 0.030"	PSA
80°	(2 sided diffuser)	V6 - 0.060"	Protective
60°	S1- PCS 0.010"		Film
40°	S2- PCS 0.020"	<i>Glass-BK7</i>	
30°		G1 - 1mm	
20°	<i>Polyester</i>	G2 - 2mm	
10°	E4 - 0.004"	G3 - 3mm	
5°	E5 - 0.005"		
1°	E1 - 0.010"		

Lighting Applications

- UV Blocking Polycarbonate is available for outdoor applications
- Brightness Uniformity $\geq 85\%$
- Temperature Range:
polyester and polycarbonate: -30°C to 105°C
acrylic: -40°C to 80°C
- Humidity: Cycled at 95% for 24 hours

Custom OEM products, including a variety of angles, sizes, shapes, cut to print parts, and substrate materials including 2 sided diffusers (PCS), color tints, and low birefringent substrates are available.

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



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