



Architectural/Event Lighting Diffusers

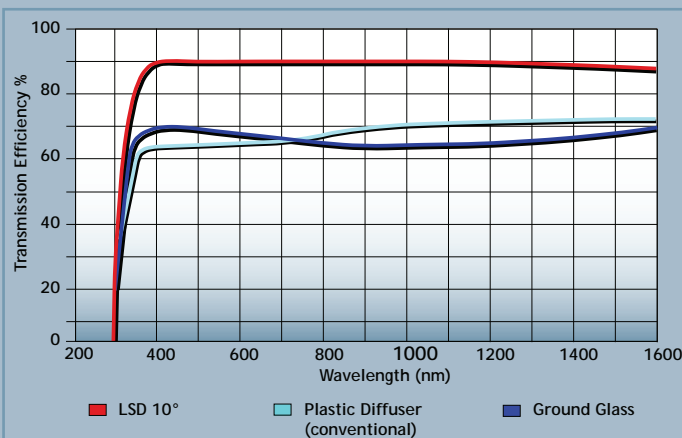


Location Lighting using Luminit Light Shaping Diffusers

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

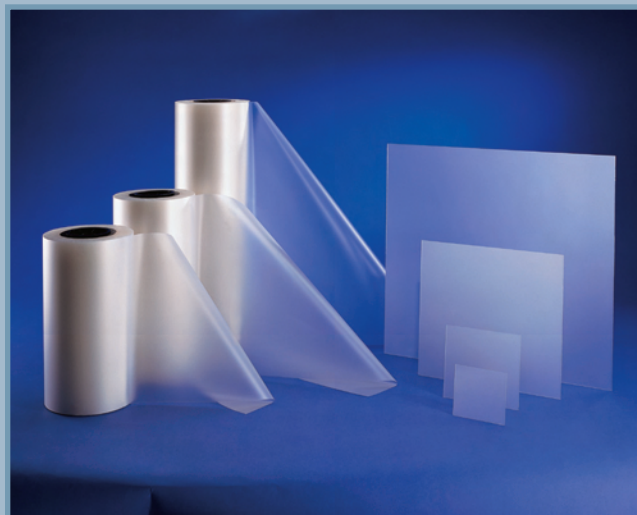
Features

Transmission efficiency:

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

Transmission wavelength:

370-1500nm for standard polyester,
polycarbonate and acrylic



LSD Seamless Film and Sheets

LSD Film Options

Angle FWHM	Substrate & Thickness	Size
95°x35°	Polycarbonate	12"x12"
75°x35°	P5 - 0.005"	16"x16"
60°x10°	P1 - 0.010"	20"x20"
80°	P4 - 0.015"	Roll Width
60°	(2 sided diffuser)	20"
30°	S1- PCS 0.010"	36"
20°		
10°	Polyester	Option
5°	E4 - 0.004"	
	E5 - 0.005"	PSA
	E1 - 0.010"	Protective Film

LSD Sheet Options

Angle FWHM	Substrate & Thickness	Size
95°x60°	Polycarbonate P5 - 0.005"	Acrylic A3 - 0.030"
95°x35°	P1 - 0.010"	A6 - 0.060"
75°x35°	P4 - 0.015"	A8 - 0.080"
60°x10°	P2 - 0.020"	A1 - 0.125"
60°x1°	P3 - 0.030"	
40°x0.2°	P6 - 0.060"	Acrylic-UVT
30°x5°	P8 - 0.125"	V3 - 0.030"
80°	(2 sided diffuser)	V6 - 0.060"
60°	S1- PCS 0.010"	
40°	S2- PCS 0.020"	Glass-BK7
30°		G1 - 1mm
20°	Polyester	G2 - 2mm
10°	E4 - 0.004"	G3 - 3mm
5°	E5 - 0.005"	
1°	E1 - 0.010"	

Option
PSA
Protective
Film

Lighting Applications

- UV Blocking Polycarbonate is available for outdoor applications
- Brightness Uniformity >=85%
- Temperature Range:
polyester and polycarbonate: -30°C to 105°C
acrylic: -40°C to 80°C
- Humidity: Cycled at 95% for 24 hours
- Solvent resistance: acetone, methanol, MFK, Windex, gasoline, methylene, chloride and chlorine bleach

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.

