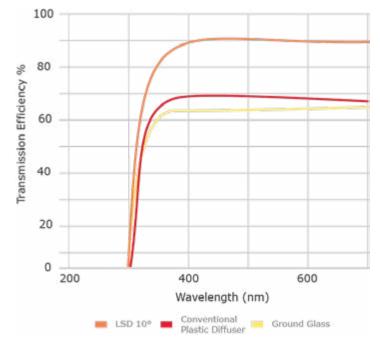


The conventional design of lighting systems is changing from larger extended sources to smaller discrete ones due to the increased availability of cost effective, high brightness LEDs. These new designs require diffusers capable of delivering uniformity and beam shaping at high transmission rates. With 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. Zero order or a specular component will be less than 1% for visible wavelengths, but may be higher if our standard product is used with wavelengths >700nm. Luminit is able to design custom diffuser for wavelengths in the infra-red region. Please contact sales@luminitco.com for further details.

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 Wavelength

 400-700nm for standard polyester, polycarbonate and acrylic

Transmission Efficiency

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



Specifications

Brightness Uniformity

>=85%

Temperature Range

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

Acrylic: -40°C to 80°C

Humidity

Cycled at 95% for 24 hours



	Film	Sheets
Angles (FWHM)	60°×30° 60° 60°×10° 40° 60°×1° 30° 50°×3° 20° 40°×1° 10° 30°×5° 5° 30°×1° 3.5° 20°×10° 2° 15°×1° 1° 10°×1° 1°×60° 80°	95°×25° 100° 75°×25° 80° 60°×30° 60° 60°×10° 40° 60°×1° 30° 40°×1° 20° 30°×5° 10° 30°×1° 5° 20°×1° 3.5° 2° 1° 0.5°
Substrate & Thickness Size	Polycarbonate P1 - 0.010" Polyester E5 - 0.005" 24" × 24" Roll Width: 24"	Polycarbonate P8 - 0.118" P3 - 0.030" P6 - 0.060"
Options	Protective FilmPressure Sensitive Adhesive (PSA)	



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 substrates are available.

