



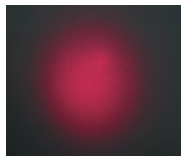
Light Shaping Diffusers®

Angles, Sizes and Formats

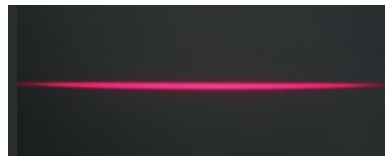
Luminit Light Shaping Diffusers homogenize and directionally shape light with high transmission efficiency and excellent hiding power. Available in seamless rolls on polycarbonate, polyester or acrylic substrates, including UV-stable or UL-approved substrates, we offer diffusers with elliptic and circular outputs in a variety of substrates, sizes and angles from small to extreme. We can custom cut to your specifications, and offer low-cost Injection Molded (IM) lenses that can be designed in a variety of shapes and sizes in symmetrical and asymmetrical beam angles for any LED module design.



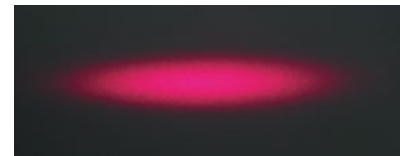
No Diffuser



30° Diffuser



60° × 1° Diffuser



30° × 5° Diffuser

Large Volume Seamless Rolls

Circular Angle (FWHM)		Elliptical Angle (FWHM)		Substrate & Thickness	Polycarbonate	
80°	10°	80° × 50°	30° × 5°		P1 - 0.010"	
60°	5°	60° × 30°	30° × 1°			
30°	3.5°	60° × 10°	20° × 10°	Sizes	Roll Width	Standard length
40°	2°	60° × 1°	15° × 1°		24ft	500ft
20°	1°	50° × 3°	10° × 1°	Options	Protective film	
		40° × 1°	1° × 60°		Partial rolls (50ft minimum length)	

LSD Sheets and Panels

Available with PSA and protective Film

Circular Angle (FWHM)	Elliptical Angle (FWHM)	Substrate & Thickness	Polycarbonate	Options
100° 10°	95° × 25° 40° × 20°		P1 – 0.010"	Polyester, acrylic, UVT acrylic substrates also available
80° 5°	80° × 50° 40° × 10°		P3 – 0.030"	
60° 3.5°	60° × 30° 40° × 1°		P6 – 0.060"	
50° 2°	60° × 10° 30° × 10°		P8 – 0.118"	
40° 1°	20° × 10° 30° × 1°		12" × 12"	Custom angles and larger sizes available on request
30° 0.5°	30° × 5° 20° × 1°			
20°	60° × 1° 10° × 1°			
	50° × 3°			

Direction Turning Film

Turning Angle (FWHM)	20°
Substrate & Thickness	Polycarbonate P1-0.010
Transmission Spectral Range	400nm - 800nm
Sizes	24" × 24"
Options	PSA Protective Film

Injection Molded Parts

Angles & Transmission	Standard LSD angles >85%
Material	Polycarbonate, acrylic or other specified optical materials
Lens/Optical Sizes & Thicknesses	Up to 6.5" in size 0.030 up to 0.125" thick
Minimum Qty.	10,000 or more
Options	Requires 6 weeks lead time

Light Shaping Diffusers®

for Linear Light Fixtures

Temp. Range	-30°C to 80°C
Material & Thickness (FWHM)	PS 1.5MM (PMA available by request)
Diffusion Angles	60°
BYK Transmission	80%* <small>*As measured by a BYK Haze-Gard (ASTM D 1003)</small>
Haze	102%

Glass Diffusers

Angle (FWHM)	Substrate & Thickness	UV Fused Silica
50° 40° 30°		U3 3mm
		B270 G6 - 3mm
		Sizes 25mm (1" dia.) 50mm (2" dia.)
20° 15° 10° 5° 1° 0.5°		Options • Custom elliptical or circular angles • Larger sizes • AR Coating

Download our other product datasheets, at <https://luminitco.com/downloads/data-sheets>

