

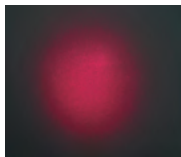
Light Shaping Diffusers®

Angles, Sizes and Formats

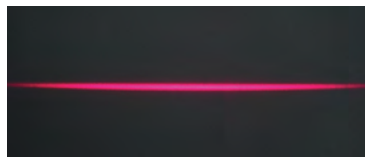
Luminit Light Shaping Diffusers® homogenize and directionally shape light with high transmission efficiency and excellent hiding power. Available in seamless rolls on polycarbonate, polyester or acrylic substrates, including UV-stable or UL-approved substrates, we offer diffusers with elliptic and circular 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.



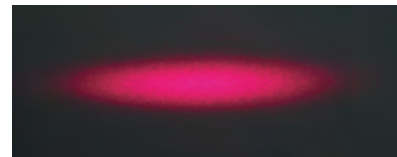
No Diffuser



30° Diffuser



60° × 1° Diffuser



30° × 5° Diffuser

Large Volume Seamless Rolls

Circular Angle (FWHM)		Elliptical Angle (FWHM)		Substrate & Thickness	Polycarbonate P1 - 0.010"
80°	10°	75° × 35°	30° × 5°		
60°	5°	60° × 30°	30° × 1°		
30°	3.5°	60° × 10°	20° × 10°	Options	- Protective film - Partial rolls (50ft minimum length)
40°	2°	60° × 1°	15° × 1°		
20°	1°	50° × 3°	10° × 1°		
		40° × 1°	1° × 60°		



Light Shaping Diffuser® Sheets and Panels

Available with PSA and protective Film

Circular Angle (FWHM)	Elliptical Angle (FWHM)	Substrate & Thickness	Polycarbonate	Options	
100°	95° × 25°		P1 – 0.010"	Polyester, acrylic, UVT acrylic substrates also available	
80°	75° × 35°		P3 – 0.030"		
60°	75° × 25°		P6 – 0.060"		
40°	60° × 30°		P8 – 0.118"		
30°	60° × 10°		12" × 12"		Custom angles and larger sizes available on request.
20°	30° × 5°				
10°	60° × 1°				
5°	40° × 1°				
3.5°	30° × 1°				
2°	20° × 1°				
1°					

Note:
Prices and lead times for non-standard or custom angles differ from the standard catalog. Contact sales@luminitco.com for more information.

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
Notes	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 U3 3mm B270 G6 - 3mm
50° 40° 30° 20° 10 5° 1°	Sizes	25mm (1" dia.) 50mm (2" dia.)
	Options	• Custom elliptical or circular angles • Larger sizes • AR Coating

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

