

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.







30° Diffuser



30° X 5° Diffuser



60° X 1° Diffuser

Large Volume Seamless

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



LSD Sheets and Panels

Circular Angle (FWHM)	Elliptical Angle (FWHM)	Substrate & Thickness	Sizes	Options
100° 80° 40° 30° 20° 10° 7.5° 5° 3.5° 2° 1° 0.5°	90° x 60° 95° x 25° 80° x 50° 75° x 45° 60° x 30° 60° x 10° 60° x 1° 40° x 1° 30° x 5° 30° x 1° 1° x 40°	Polycarbonate P1 – 0.010" P3 – 0.030" P6 – 0.060" P8 – 0.118" Polyester, acrylic, UVT acrylic substrates also available	12" x 12" Custom angles and larger sizes available on request	With PSA and Protective Film

Injection Molded Parts

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

Direction Turning Film

Angle (FWHM)	Substrate & Thickness	Transmission Spectral Range	Sizes	Options	
20°	Polycarbonate	400nm-800nm	24" x 24"	PSA	

Protective Film

P1- 0.010 Volumetric Light Shaping Diffusers for Linear Light Fixtures

Temp. Range	Material & Thickness (FWHM)	Duffusion Angles	BYK Transmission	Haze
-30°C to 80°C	PS 1.5MM	60°	80%*	102%

(PMMA available by special request)

Glass Diffusers

Angle FWHM	Substrate & Thickness	Sizes	Options
50° 40° 30° 20° 15° 10 5° 1° 0.5°	UV Fused Silica U3 3mm B270 G6 - 3mm	25mm 50mm 2" x 2"	Custom elliptical and circular angles as well as larger sizes can be made.