



Light Shaping Diffusers®

Injection Molded Parts

Luminit offers low-cost, rigid injection molded Light Shaping Diffusers for high volume OEM LED lighting applications. These custom injection molded rigid lenses can reduce the cost of an LED lamp or fixture while providing increased value. Available in custom sizes and shapes and in a variety of symmetrical and asymmetrical beam angles, Injection Molded LSDs are suitable for any LED module design such as recessed down-lights as well as Parabolic Aluminized Reflector (PAR) and Multi-faceted Reflector (MR) lamp formats. These lenses can be designed to fit a lamp or light fixture with the appropriate mechanical tabs or clips (molded in), and the monolithic integration of Luminit's micro-structure into the exit window of a lamp results in a rigid lens with very high light transmission, a smooth, frosty finish and a controlled beam pattern. Lenses can be produced at low cost in quantities of 10,000 or more.

Features

- Luminit's patented holographically mastered nano-structures that provide very high transmission (85 to 92%) for maximum light output
- Choose from a number of symmetrical and asymmetrical beam angles to create a lens that shapes the output beam
- Lenses can be designed with mechanical tabs or clips for faster, lower cost "snap together" assembly
- Non-yellowing material available for outdoor use as well as flame-retardant material to meet UL/CE flame retardant ratings
- Fits most LED module designs, lamp formats, down-lights, spotlights, flashlights and other lighting fixtures

SPECIFICATIONS

| | |
|--------------------------|---|
| Lens/Optics Size: | Up to 6.5 inches |
| Transmission Efficiency: | ≥ 85% |
| Thickness: | 0.030 to 0.125 inches |
| Material: | Polycarbonate, acrylic or other specified optical materials |
| Angles: | Standard LSD angles |
| Quantity: | 10,000 or more |
| Lead Time: | Approximately 6 weeks |