



## Volumetric Light Shaping Diffuser®

### VLSD

Luminit’s Volumetric Light Shaping Diffuser (VLSD) is an economical alternative for achieving high performance diffusion for lower transmittance fixtures. These rigid diffusers are based on volumetric diffusion technology and can be mass produced on 1.5mm 4’ x 4’ or custom-sized polystyrene sheets at prices as low as \$1.07 a square foot. With transmission efficiencies up to 80%, Luminit VLSD offers excellent hiding power and uniformity at a budget-friendly price.

### SPECIFICATIONS

- Temperature Range: -30°C to 80°C
- Material: PS (PMMA available by special request)
- Beam Angle: 60° FWHM
- Thickness: 1.5mm
- BYK Transmission: 80%
- Haze: 102\*

### BENEFITS:

- High transmission efficiency
- Enhanced LED hiding power
- Light weight and impact resistant
- RoHs and UL Compliant
- Easily thermoformed

Item	PMMA	PS
Water Absorption %	0.4%	0.1%
Heat Deflection Temperature	90° C	90° C
UV Resistance	Excellent	Fair
Price	Medium	Low

### APPLICATIONS:

- Luminaires
- Linear recessed fixtures
- LED light panels, down lights, linear fixtures, hanging pendants and backlights

\*As measured by a BYK Haze-Gard (ASTM D 1003)  
Note that the specifications contained herein are subject to change without notice.