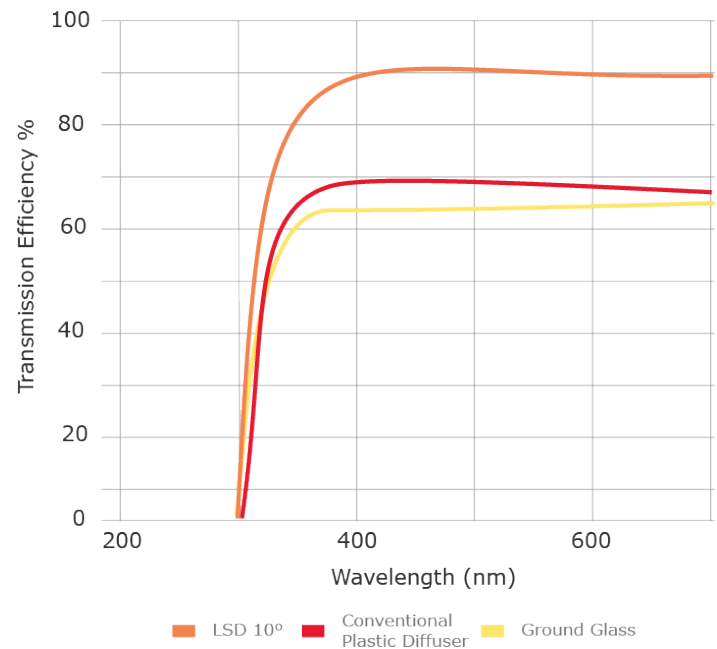




Light Shaping Diffusers®

Automotive Exterior Lighting

When incorporated into LED automotive taillights, Luminit's extreme angle diffuser offers excellent hiding power for designers who want to eliminate LED hotspots without losing a significant amount of light. Light Shaping Diffusers precisely shape, control and distribute light and are approved by AMECA as meeting the three-year weathering test of SAE J576 for plastics used in optical lenses and reflectors used on motor vehicles. AMECA, a centralized agency that performs laboratory testing of materials for color and plastic stability, includes Luminit diffusers on their list of approved materials which is valid for all of Luminit's thin film products, including Light Shaping Diffusers and Luminit's periodic prismatic. The high performance diffusion ability of Luminit diffusers allows automotive engineers to design highly energy efficient taillights with high levels of uniformity and unique lighting signatures. Luminit is able to design custom diffusers for wavelengths in the infra-red region.



SPECIFICATIONS

Beam Angles (FWHM):	Flexible
Transmission Efficiency:	≥ 85%
Angle Tolerance:	$\alpha < 1^\circ \pm 0.5^\circ$
(Based on a 10"x10" area)	$1^\circ \leq \alpha \leq 10^\circ \pm 1^\circ$
	$\alpha > 10^\circ \pm 10\%$
Transmission Spectral Range:	300nm to 700nm
Temperature Range:	-30°C to 105°C @ 1000 hours
Humidity:	> 95% ± 5% RH @ 24 hours
Lens:	Approved for use behind a Plexiglas V-052i 461 Med Red

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



For more information, contact sales@luminitco.com
 1850 W. 205th St. Torrance, CA 90501 | (310) 320-1066

All specifications contained herein
 are subject to change without notice
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