



Curved Injection Molding
Taillight Diffuser

Luminit Curved Injection Molding (CIM) is a revolutionary development in automotive lighting. CIM Light Shaping Diffusers can be custom designed in a variety of circular and elliptical angles for **excellent hiding power** in today's sophisticated LED automotive taillights and daytime running lights. The monolithic integration of Luminit's diffuser microstructures in a curved format allows for uniform angles on all surfaces and precisely shaped, controlled and homogenized light. CIM taillight diffusers use AMECA-approved materials and meet the three-year weathering test of SAE J576 for plastics used in optical lenses and reflectors on motor vehicles.



SPECIFICATIONS

Beam Angles: (FWHM):	80° and custom
Transmission Efficiency:	≥ 85%
Material:	Evonik 8N PMMA or AMECA Makrolon PC
Size:	18" x 14"
Minimum Radius of Curvature:	~1mm
Corner Radius:	2-5mm
Minimum Angle at Corner/Bend:	~15°
Angle Tolerance:	< 1° ± 0.5°
Angle Tolerance (based on a 10"x10" area):	(>1° < 10°) ± 1°, >10° ± 10%
Transmission Spectral Range:	300nm to 1500nm
Temperature Range:	Based on material. Request material datasheet
Humidity:	> 95% ± 5% RH @ 24 hours
Lens:	Approved for use behind a Plexiglas V-052i 461 Med Red