

Microstructured Optical Component Sub-Assemblies

Reflexite uses our core competencies of optical engineering, microreplication, and polymer processing to provide microstructured polymeric optical components for the *Management of Light[®]*. We can further add value to our microstructured polymeric optical components by assembling our optics into sub-assemblies.



Transmissive
Overhead Projector

Reflexite Display Optics has been making Fresnel lenses for both transmissive and reflective overhead projection systems for over 40 years. Many of these systems utilize either dual-elements, which means that two Fresnel lenses must be optically aligned and adhered together, or a second surface reflective Fresnel lens assembled to a support plate. We have used our expertise in optical alignment of components for a number of other systems as well.



Reflective
Overhead Projector

We can do sub-assemblies for LCD backlight systems. We can incorporate our microstructured lightguides, films and your vendor's films and lamps into a backlight sub-assembly to meet your needs.

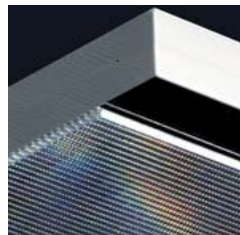
We also build sub-assemblies for the lighting industry. We can incorporate our microstructured prismatic light directing arrays with our waveguide or your vendor's waveguide and reflector to build a system for florescent lighting application.



LED Traffic Signal



LED Signal
Design Schematic



Waveguide with Prismatic Light
Directing Array (LDA)



Siteco Floor Lamp
Using LDA Technology

We can integrate our microstructured optics with LED illumination systems for a variety of signal applications.

Reflexite has also molded and assembled barrel lenses and sub-assemblies for both imaging and non-imaging applications. Our assembly processes use both liquid or pressure sensitive optical adhesives to incorporate our microstructured optics into sub-assemblies.

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