

Sub-Assembly Capabilities

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.

Reflexite Display Optics has been making Fresnel lenses for both transmissive and reflective overhead projection systems for over 35 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.



Transmissive Overhead Projector

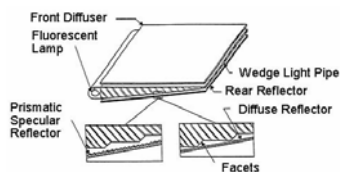


Reflective Overhead Projector

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.

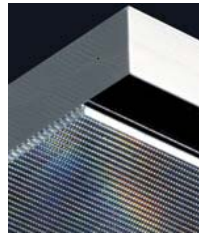


Compaq Laptop Computer



Backlight Schematic

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.



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.



LED Traffic Signal



LED Signal Design Schematic

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.

If you have a need for polymeric microstructured optical components, Reflexite Display Optics should be your first stop. If you have a need for assembling those microstructured optics into sub-assemblies we can provide that as well.