Light Guides for LED Luminaires with MicroLens® Optics

Innovative LED light guides with micro-scale optics deliver superior lighting control while creating a thin modern look.

- Unparalleled lighting control within an ultra thin optical material
- Optical modelling capabilities ensure surface uniformity
- Advanced manufacturing
  - Large scale US injection molding operations for high volume product applications
  - In-house testing validation and prototyping
- Custom light guides for unlimited design possibilities
  - Customizable optical shapes, patterns and light guide form factor provide unparalleled design freedom
  - Proven light guide solutions across a broad range of product applications
- Standard light guides for rapid time-to-market
  - Off-the-shelf products harness power of MicroLens optics to meet stringent performance criteria for ambient lighting in offices
  - No capital expense and readily available ideal for quick to market projects
Overview

Beginning with edge-lit back lighting, Rambus has pioneered light guide-based design solutions for a broad range of LED lighting applications, enabling a new level of styling, efficiency and control of light.

MicroLens® optics (micro 3D features that provide controlled light extraction) are the key to creating highly-efficient and cost-effective solutions with unparalleled design flexibility. Our offering includes both off-the-shelf and customizable light guide design and manufacturing solutions with expert optical engineering support. Our customizable light guides are optimized to specific customer and application requirements by varying the size, shape and density of the MicroLens optics. These light guides can be manufactured by our global lighting partners or at our state-of-the-art facility within the US.

Complete fixture prototype designs that combine Rambus optical innovations with design engineering and manufacturing support services are also available to lighting system companies and fixture manufacturers worldwide.

Features

- Superior optical control using MicroLens optics
- Customizable uniformity and distribution of light output
- Ultra thin light guides facilitate low profile luminaire design
- Proven, economical manufacturing processes and controls

Applications

Supports a broad range of LED lighting products including:
- Office
- Hospitality
- Retail
- Residential
- Entertainment
- Automotive

Example of off-the-shelf MicroLens light guide design

For information on ordering, pricing, or custom parts, please contact us at +1-888-532-0799 or lightguides@rambus.com

rambus.com/lightguides