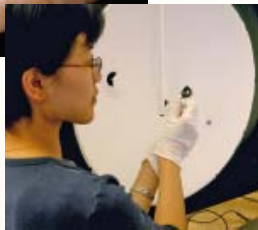


Solid-State Lighting Program



Solid-state lighting has the potential to revolutionize the lighting industry. Light-emitting diodes (LEDs), commonly used in signs, signals and displays, are rapidly evolving to provide light sources for general illumination. This technology holds promise for lower energy consumption and reduced maintenance.



The LRC's Solid-State Lighting Program team conducts research and educational programs to enhance this technology, overcome barriers, and help it to gain acceptance for general illumination purposes.



The program's multidisciplinary staff focuses its efforts in the areas of: lighting systems and components research; human factors research; field demonstrations and market transformation activities; workshops and seminars; and industry collaboration.

Recent projects

- Effective use of colored LED lighting in retail display windows
- Developing a high-efficiency solid-state light source
- Low-profile LED fixture
- White LEDs for commercial refrigeration
- Nanocrystal quantum dots for use in white LED lighting systems



For more information

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Sponsors

B/E Aerospace; Boeing; California Energy Commission; Color Kinetics; Evident Technologies; FAA/CGAR; Los Angeles Department of Water and Power; Lumileds Lighting; New York State Energy Research and Development Authority; Optical Research Associates; Opto Technology, Inc.; RPC Photonics; U. C. Santa Barbara; U.S. Department of Energy.

