

VCOptic™

Litecontrol's VCOptic advanced optical components are individually engineered for maximal visual comfort. We adapt the VCOptic approach for the specific needs of a given fixture and application, always guided by the four VCOptic principles:

VCOptic Principles

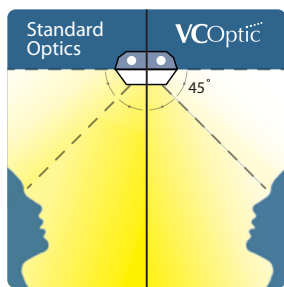
1. Control luminance
2. Obscure lamp images
3. Manage intensity distributions and contrast ratios
4. Create visual interest

LITECONTROL

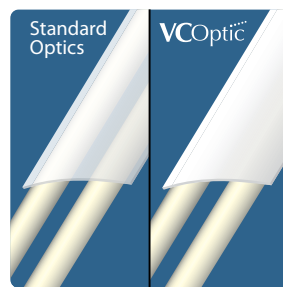
Principles

- 1. Control luminance.** High luminance reduces visual comfort, so with VCOptic we control the luminances, especially at critical angles above 45 degrees.
- 2. Obscure lamp images.** New light source technologies such as T5HO lamps and LEDs provide high brightness from small sources—a potential recipe for discomfort. We engineer our VCOptic components to obscure the individual lamp images and maximize visual comfort.
- 3. Manage intensity distributions and contrast ratios.** For direct lighting, discomfort can be related to a poorly controlled intensity distribution. For indirect and perimeter lighting, a poor intensity distribution produces high contrast ratios on the ceiling or walls, creating visual distraction. VCOptic components effectively manage the intensity distribution to optimize contrast ratios.
- 4. Create visual interest.** Glare-free diffuse lighting can sometimes result in flat, dreary environments. Visually interesting elements make spaces more comfortable, more pleasant, and more satisfying. So our VCOptic approach seeks to add visual interest into the lighting.

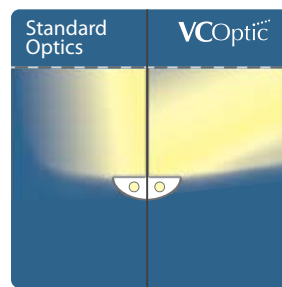
These four principles are applied to different solutions for different fixtures and applications. To learn more about individual VCOptic solutions go to litecontrol.com.



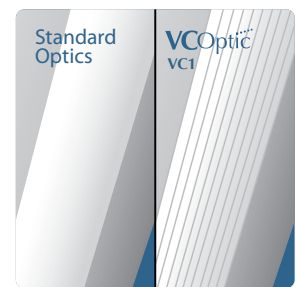
1. Control luminance



2. Obscure lamp images



3. Manage intensity distributions and contrast ratios



4. Create visual interest

VC1

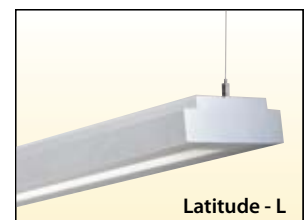
The VC1 lens partners an innovative optical film with a clear grooved lens. The optical film utilizes tiny microlens structures to direct and shape the transmitted light. This highly efficient diffusion produces uniform brightness with controlled luminances, obscured lamp images, and a controlled intensity distribution. And the clear grooved lines create a refined look that adds visual interest.



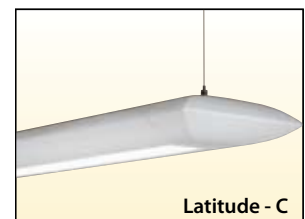
Arcos M5 with VC1 lens

VC1 lens is available with the following fixtures: Arcos M5, Latitude - L, Latitude - LS & Latitude - C

Because it diffuses light throughout the bulk of the material, the VC1 optical film represents an important advancement over industry standard surface relief diffusers, such as those produced with holographic techniques. The film is very durable and reliable, can be handled without protective equipment, and can be cleaned with non-abrasive surface cleaners like Windex or isopropyl alcohol. The custom extruded lens fully engages the film, without the need for any adhesive materials.



Latitude - L



Latitude - C