

Vio™ High Power White LED

The look that lasts.™

70CRI and 85CRI
1 and 4 watt
3500K and 4100K

The Vio LED story

By combining highly efficient 405 nm violet chips with proprietary phosphors, Vio LEDs enable tremendous flexibility in color temperature and CRI. The result is a very stable, warm white color, with minimal part-to-part color variation. Plus, it is diffused, for a pleasing, more uniform light similar to a soft white incandescent lamp. Vio LEDs produce white light that meets the high standards of lighting designers.

Color stability over life

Since the color shift is less than 100 Kelvin over 50,000 hours, Vio LEDs can be used with confidence in general illumination applications as a replacement for traditional light sources. Not only will Vio LEDs create the mood a lighting designer is looking for, it will maintain the mood over time.

High flux package in warm white colors

Our integrated chip technology produces high light output in a single package. This reduces design complexity for lighting manufacturers, while still providing a "quality of light" solution.



Applications

General: pendant, sconce

Commercial: task, display

Landscape: pathway, in-ground

Architectural: wall wash, marker

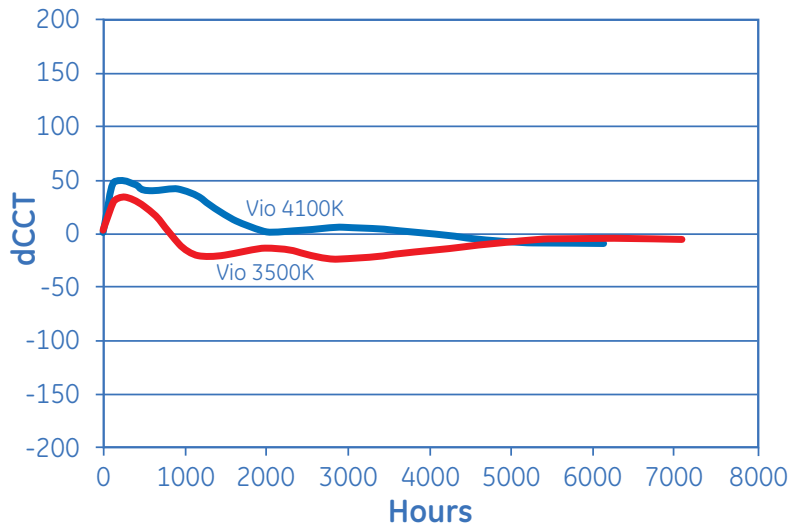


Vio LED Product Specifications

CRI	CCT	Watts	Part Number	Lumens	Max Operating Temperature °C	Life*	Beam Angle	Case Qty.
70	3500	1.2	GE-VHD-1A-1C7	54	85	50,000	180°	50
70	3500	3.6	GE-VHD-1A-3C7	162	85	50,000	180°	50
70	4100	1.2	GE-VHD-1A-1D7	54	85	50,000	180°	50
70	4100	3.6	GE-VHD-1A-3D7	162	85	50,000	180°	50
85	3500	1.2	GE-VHD-1A-1C8	46	85	50,000	180°	50
85	3500	3.6	GE-VHD-1A-3C8	138	85	50,000	180°	50
85	4100	1.2	GE-VHD-1A-1D8	46	85	50,000	180°	50
85	4100	3.6	GE-VHD-1A-3D8	138	85	50,000	180°	50

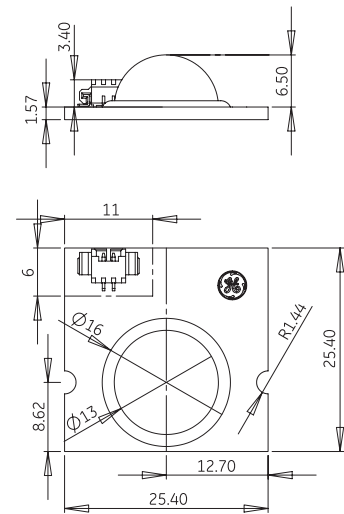
* Life assumes operation at 500 mA, and Tboard maximum of 85°C.

Color Stability Over Time



Lighting designers can be confident that Vio's violet-based LEDs will continue to provide the specified light quality over many years. GE Lumination uses Six Sigma methodology to design and test its products to robust standards.

Package Dimensions



The Vio LED design incorporates a plug-in connector, eliminating the need for soldering.

A thermocouple measurement point on the circuit board provides accuracy in design and validation.

Additional Features & Benefits

- Low LED-to-LED color variation: ± 200 Kelvin over full distribution
- Consistent lumen output and efficiency within CRI offering
- Chip on board technology for improved thermal management
- 70% lumen maintenance at 50,000 hours under normal operation
- Simplified color binning
- RoHS compliant, mercury free



6180 Halle Drive • Valley View, Ohio 44125-4635
 P:216.606.6612 • F:216.606.6556 • W:www.led.com • E:info@led.com

Lumination, LLC is a subsidiary of GE Consumer & Industrial. Vio and "The look that lasts" are trademarks of Lumination, LLC. The GE brand and logo are trademarks of the General Electric Company. © 2007 Lumination, LLC. Information provided is subject to change without notice. All values are design or typical values when measured under laboratory conditions.