

Vio™ High Power White LED



The look that lasts.™

70CRI and 85CRI
1, 4 and NEW 7 Watt
3000K, 3500K and 4100K



The Vio LED story

By combining highly efficient 405 nm violet chips with proprietary phosphors, Vio LEDs enable tremendous flexibility in colour temperature and CRI. The result is a very stable, warm white colour, with minimal part-to-part colour 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.

Colour stability over life

Since the colour change is less than 75 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 colours

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



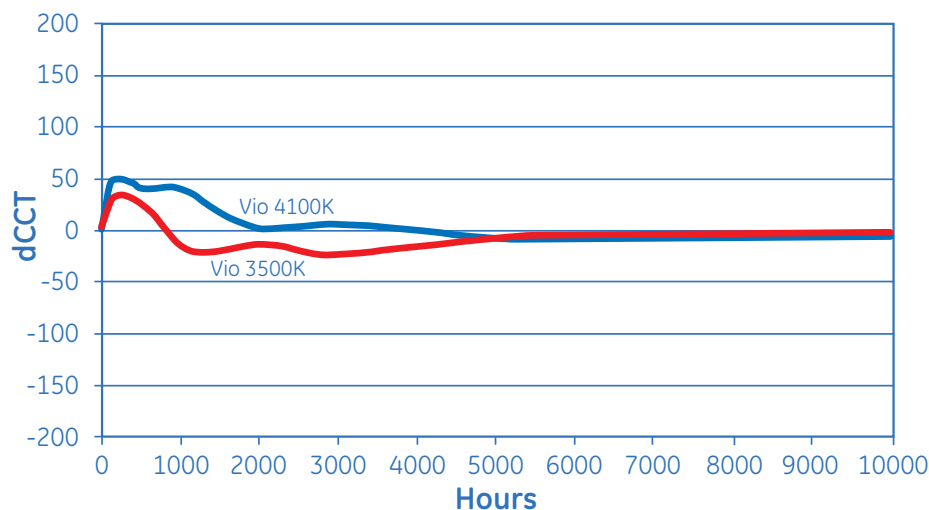
GE imagination at work

Vio LED Product Specifications

Watts	CRI	CCT (+/- 200K)	Lumens Typical	Lumens per Watt* Typical	Forward Voltage (Vf) Minimum	Forward Voltage (Vf) Typical	Forward Voltage (Vf) Maximum	Product description	Min. order qty	Product code	
1.2	70	3000	64	53	3.2	3.5	4.0	Vio/1.2W/730	10	73357	
1.2	70	3500	67	56	3.2	3.5	4.0	Vio/1.2W/735	10	73355	
1.2	70	4100	69	58	3.2	3.5	4.0	Vio/1.2W/741	10	73353	
1.2	85	3000	55	46	3.2	3.5	4.0	Vio/1.2W/830	10	73351	
1.2	85	3500	55	46	3.2	3.5	4.0	Vio/1.2W/835	10	73349	
1.2	85	4100	57	48	3.2	3.5	4.0	Vio/1.2W/841	10	73347	
3.6	70	3000	171	48	9.6	10.2	12.0	Vio/3.6W/730	10	73356	
3.6	70	3500	188	52	9.6	10.2	12.0	Vio/3.6W/735	10	73354	
3.6	70	4100	196	54	9.6	10.2	12.0	Vio/3.6W/741	10	73352	
3.6	85	3000	142	39	9.6	10.2	12.0	Vio/3.6W/830	10	73350	
3.6	85	3500	153	43	9.6	10.2	12.0	Vio/3.6W/835	10	73348	
3.6	85	4100	160	44	9.6	10.2	12.0	Vio/3.6W/841	10	73346	
7.2	70	3000	300	42	18.0	20.0	22.0	Vio/7.2W/730	10	74759	
7.2	70	3500	350	49	18.0	20.0	22.0	Vio/7.2W/735	10	74760	
7.2	70	4100	330	46	18.0	20.0	22.0	Vio/7.2W/741	10	74761	
7.2	85	3000	250	35	18.0	20.0	22.0	Vio/7.2W/830	10	74762	
7.2	85	3500	275	38	18.0	20.0	22.0	Vio/7.2W/835	10	74763	
7.2	85	4100	285	40	18.0	20.0	22.0	Vio/7.2W/841	10	74764	
								Molex connector harness	Vio/Con	10	73738

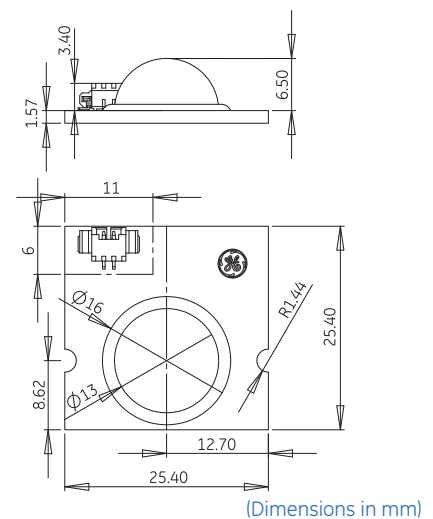
* Data quoted at 350mA drive current.

Colour 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 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 colour 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 after 50,000 hours of operating at 500mA ($T_{board} = 85^{\circ}C$)
- Simplified colour binning
- RoHS compliant, mercury free



www.gelighting.com/eu

and General Electric are both registered trademarks of the General Electric Company

GE Lighting is constantly developing and improving its products. For this reason, all product descriptions in this brochure are intended as a general guide, and we may change specifications time to time in the interest of product development, without prior notification or public announcement. All descriptions in this publication present only general particulars of the goods to which they refer and shall not form part of any contract. Data in this guide has been obtained in controlled experimental conditions. However, GE Lighting cannot accept any liability arising from the reliance on such data to the extent permitted by law. VIO LED sell sheet - January, 2009