



TOKISTAR® LIGHTING INC.

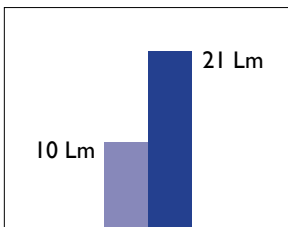
# Advantage 2400K LEDs Product Update

## The New Generation of Advantage 2400K LEDs are Now Shipping

In keeping with our policy to continually improve products, significant improvements have been made to our AVLED-WW LEDs. There are plenty of changes, and they're all good!

With recent advances in LED technology, our Advantage LED Systems are now more efficient than ever. Each LED Module still consumes only 0.72 Watts at 24 VAC, but has a much higher lumens per watt ratio.

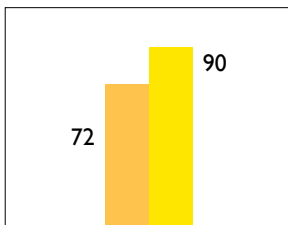
### Lumen Output



■ = Generation 1  
■ = Generation 2

The primary change is a substantial increase in light output. The original LED produced 10 lumens and this has been boosted to 21 lumens. This improvement has resulted in a higher CRI value and enhanced performance.

### CRI Value

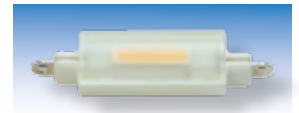


■ = Generation 1  
■ = Generation 2

Our initial priority with the Advantage LED Module was light output. With such a significant increase in output, we are now able to also improve the quality of light. The CRI value has been increased from 72 to 90.



Generation 1



Generation 2

The number of LED dies in each module has been increased from four to eight. In addition, the lens cover over the dies is now frosted. These improvements contribute to a more uniform lighting effect with less chance of lamp imaging on reflective surfaces.

### Comparatively Speaking

We are frequently asked for an opinion on what has been termed the "apparent brightness" of our LED Modules compared to traditional incandescent lamps. Although the output of our 5-Watt xenon lamp is 40 lumens, the 21 lumens produced by the LED Module is a more focused light. We can now say with confidence:

**The apparent brightness of our Advantage LED Module is similar to that of our 5-Watt xenon lamp.**

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1561 N. Gemini Place • Anaheim, CA 92801

Tel: 714.772.7005 • Fax: 714.772.7014 • Toll free in U.S.A.: 877.340.7633  
E-mail: info@tokistar.com • Web site: www.tokistar.com