

Energy-Saving LED Showcases Shed New Light on Denmark's Crown Jewels

Future Lighting Solutions Provided Critical Binning, Logistics & Color Data Support

MONTREAL, QUEBEC (December 16, 2009) – New solid-state showcase fixtures utilizing LUXEON® Rebel LEDs are changing the way that Denmark's Rosenborg Castle lights its popular collection of crown jewels and decorative objects, enabling an 80% energy savings as well as a dramatic reduction in incandescent-generated heat that threatened to damage the royal relics. The new PinolLED light strips were created by Danish LED lighting engineering firm I-NO in collaboration with Future Lighting Solutions, Danish lighting distributor Lumodan, and DTU Fotonik, the department of Photonics Engineering at the Technical University of Denmark.

The PinolLED light bars utilize a proprietary DTU Fotonik color mixing strategy to achieve the 2200K color temperature considered optimal for lighting gold by combining warm white and red LUXEON Rebel LEDs and then adding a carefully selected optical filter to reduce unwanted colors. Color bins and filters are selected with the assistance of proprietary I-NO color mix calibration software, eliminating the need to make multiple prototypes from different LED bins to produce the desired color values.

Future Lighting Solutions played a critical role in facilitating the new light strips, including providing advanced color binning, inventory management, and spectral power distribution data on all warm white LED color bins. I-NO's software uses this color data to generate a color mixing formula based on the characteristics of the individual color bin, making it possible to create the required color effects with almost any warm white LUXEON Rebel color bin simply by changing the optic filter and drive current.

This approach has enabled Rosenborg Castle to enhance its crown jewel display by deepening the royal blue of the showcase backdrops. Previously the backgrounds washed out to gray, lessening the regal impression as well as the eye appeal.

I-NO is an integration member of the Future Lighting Solutions Network, a global group of companies that are trained and certified to enable LUXEON-based solid-state lighting solutions.

A detailed case study is available at www.futurelightingsolutions.com.

About Future Lighting Solutions

Future Lighting Solutions (www.futurelightingsolutions.com) is a leading provider of LED lighting components and support services for solid-state lighting products and installations, including engineering expertise, concept development, full system solutions and online tools that accelerate quality application development. The company is a division of Future Electronics.

Press Release

December 16, 2009



###

Contact Information:

Heather Goldsmith

heather.goldsmith@futureelectronics.com

Telephone: +1 514-694-7710

Fax: +1 514-429-0144

www.FutureLightingSolutions.com