TEST YOUR LED LIGHTBAR IQ

By Dwight Turner, Technical Sales Manager, Lumex

Over the past several years, lightbars have become increasingly popular in general, spot and track lighting applications in residential, commercial and industrial applications. Because of their energy efficiency, durability and high performance, LED lightbars stand out as a superior option in a crowded lighting marketplace. The recent introduction of LED lightbar kits containing all necessary components (including a variety of mounting options) has made the technology easier than ever to install.

The questions below are designed to test your knowledge on the latest developments in LED Lightbar technology.

True or False – LED Lightbars Consume Up To 20% Less Energy Than Alternative Technologies

False. LED lightbars consume up to 80% less energy than halogen and 25% less energy than cold-cathode fluorescent lamp (CCFL) alternatives. Additionally LED lightbars can last up to 8X times longer than halogen and 2X times longer than CCFL and are more durable and shock resistant. Together these key benefits combine to allow lightbars to generate cost savings of up to 80% compared to halogen and 25% compared to CCFL alternative technologies.

True or False – LED Lightbars Can Be Easily Installed Without Requiring In-Depth Electrical Knowledge

True. A new generation of complete, lightbar technology has made it possible to quickly and easily install LED lightbars into a wide range of applications. For example, the new SunBrite LED Lightbar can be installed with ease without the need to hire an electrician to open walls and install new wiring.

True or False – It Is Difficult to Find the Exact Lightbar Performance Characteristics Required for Varied Applications

False. In 2012, new modular LED lightbar kits became available worldwide. These kits feature a wide variety of compatible components making it possible to mix-and-match individual pieces in a wide variety of sizes and formats in order to create a solution ideally suited for each unique application.

For example, the SunBrite LED Lightbar kit contains the following optional components:

- Lightbar is available in lengths of 6, 12 and 24 inches. Lightbars can be easily joined together to create desired length (maximum of 40 watts).
- Compatible connector cables are available in 10 inch, 20 inch or 40 inch lengths to connect lightstrips to desired length.
- Mounting clips are available in standard, 45° angle and swivel format variation.
- A specially designed transformer is available to allow for simplified installation and immediate wall plug-in.
- A dimmer switch is available and effective on an entire line of connected light switches.

True or False – LED Lightbars Are Used Mostly in Under-Counter Applications

False. While under-counter applications are well suited to LED lightbar technology, the unique performance and cost benefits of LED lightbars have led to their adoption in a much wider range of applications. These applications include display lighting, decorative/architectural lighting, task lighting, spot/accent lighting and back/edge lighting.

True or False – LED Lightbars Are Available in a Wide Range of Color Options

True. Warm, neutral and cool white colors are available in standard formats. Lumex can also create custom RGB technologies can also be created in any color. Lumex provides cost-effective custom solutions with speed unmatched in the market

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Photography

IMAGE: *SunBriteLightBar.jpg*

SAMPLE CAPTION:

The SunBrite Modular LED Lightbar technologies combine high-performance, ease-of-installation, flexibility and cost

savings. Unlike many alternative lightstrip technologies, the SunBrite LED Lightbar can be installed with ease without the need to hire an electrician to open walls and install new wiring.

ADDITIONAL GRAPHIC: SunBrite LED Lightbar Part Numbers

LUMEX PART NUMBER	DESCRIPTION
SSP-LBK12MW024K03	LED LIGHT BAR KIT 12" WARM WHITE 24VDC. 120 DEG. 3W.
SSP-LB06MW024K03	LED LIGHT BAR 6" WARM WHITE 24VDC. 120 DEG. 2.5W.
SSP-LB12MW024K03	LED LIGHT BAR 12" WARM WHITE 24VDC. 120 DEG. 3.3W.
SSP-LB12MW024K05	LED LIGHT BAR 12" WARM WHITE 24VDC. 120 DEG. 5W.
SSP-LB12NW024K03	LED LIGHT BAR 12" NEUTRAL WHITE 24VDC. 120 DEG. 3.3W.
SSP-LB12NW024K05	LED LIGHT BAR 12" NEUTRAL WHITE 24VDC. 120 DEG. 5W.
SSP-LB12UW024K03	LED LIGHT BAR 12" COOL WHITE 24VDC. 120 DEG. 3.3W.
SSP-LB12UW024K05	LED LIGHT BAR 12" COOL WHITE 24VDC. 120 DEG. 5W.
SSP-LB24MW024K10	LED LIGHT BAR 24" WARM WHITE 24VDC. 120 DEG. 10W.
SSP-LB24UW024K07	LED LIGHT BAR 24" COOL WHITE 24VDC. 120 DEG. 6.6W.

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About Lumex
For over 30 years, Lumex, a member of the ITW Photonics Group, has been a global leader in the optoelectronics industry. With the broadest range of high efficiency, high performance LEDs and LCDs in the industry, Lumex provides thousands of standard products and specializes in semi-custom and custom designs. Lumex's optical range encompasses a wide spectrum including UV, visible and infrared wavelengths. Lumex's team of Technical Design Specialists are experts in collaboratively developing effective, smart solutions from the most complex design dilemmas.

Lumex has a global footprint with the worldwide headquarters outside Chicago and the Asian headquarters in Taiwan. With manufacturing capabilities in the United States, China, Taiwan and Thailand, Lumex is able to support over 23 end markets with more than 80,000 customers both directly and through our distribution channel partners. Lumex received its initial ISO 9001 registration in 1996.

About the ITW Photonics Group
The ITW Photonics Group was created to bring together and build on the technical expertise of individual companies that specialize in photonics technology and span the full spectrum of wavelengths. The group consists of:

- Lumex - LED and LCD technology
- Cal Sensors - IR Detector and Emitter technology
- Opto Diode Corp - LED, Silicon Photodiodes and Electro-Optical Assembly technology
- ITW Linx – Surge protection technology

The synergy of these industry front-runners provides an unsurpassed range of photonic capabilities within a broad spectrum of markets, including medical, military and industrial controls. The ITW Photonics Group provides integrated solutions that encompass the technology and experience from all three business units, offering design engineers higher performance with greater feature enhancements. For more information on the ITW Photonics Group, go to www.itwphotonicsgroup.com

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