



Samsung Adds Advanced Color Quality Features to its Small LES, Chip-on-Board LED Solutions for Premium Commercial LED Lighting

SEOUL, Korea – March 13, 2016 – Samsung Electronics Co., Ltd., a world leader in advanced component solutions, today introduced new color quality improvements for its small LES* (light-emitting surface) chip-on-board (COB**) package LC series: LC010, LC020 and LC040. The improvements are based on “Vivid” color technology that has been optimized for high color quality LED lighting especially for use in premium commercial lighting applications.

“With Samsung’s new small LES COB packages, LED luminaire manufacturers can enjoy exceptionally high color quality and design flexibility,” said Jaewook Kwon, Vice President, LED Strategic Marketing Team, Samsung Electronics. “Samsung will continue to provide advanced and differentiated COB LED packages to lead the commercial LED lighting market.”

Samsung’s small LES LC series offers three alternatives: the LC010C with an operating wattage of 10W and an LES diameter of 6mm; the LC020C with 20W and an 8mm LES diameter; and the LC040C with 40W and an 11mm LES diameter.

The small LES LC series reduces the space required for the LES by 50 percent, while doubling the center beam candle power (CBCP) over that of existing standard COB LED packages. (The CBCP measures the luminous intensity at the center of the beam of a directional lamp, in a unit of candelas.)

Improved quality of light in the small LES LC series is enabled by Samsung’s Vivid color feature, which provides special color spectrums optimized for retail markets such as grocery and premium commercial stores. The Vivid color spectrums add more brilliance to displays of fresh meat and fruits, for example. Samsung’s small LES line-up also features high CRI*** levels – over 80, 90 and 95 CRI respectively. These improvements will help satisfy requirements for premium commercial lighting applications, where color quality is a critical factor in lighting performance.

In addition, Samsung’s flip chip and phosphor dispensing technologies were adopted to reduce the size of the LES throughout the LC series, in compliance with Zhaga Book 12. The small LES LC series can increase cost effectiveness by significantly reducing the size of key elements within a luminaire such as its optics, heat sink and holders. Also, they can be easily adapted to be used in spotlight, even the ones with a narrow beam angle of between 15 and 25 degrees.

The newly improved small LES LC series will be mass produced beginning this month and will be available in 2700K, 3000K, 3500K, 4000K, 5000K, and 5700K CCT****s.

Samsung will showcase its small LES LC series along with many other innovative Samsung technologies and LED component solutions at Booth B04 Hall6.2, of the Light + Building trade fair in Frankfurt, Germany, March 13th – 18th.

About Samsung Electronics Co., Ltd.

Samsung Electronics Co., Ltd. inspires the world and shapes the future with transformative ideas and technologies that redefine the worlds of TVs, smartphones, wearable devices, tablets, cameras, digital appliances, printers, medical equipment, network systems, and semiconductor and LED solutions. We are also leading in the Internet of Things space with the open platform SmartThings, our broad range of smart devices, and through proactive cross-industry collaboration. We employ 319,000 people across 84 countries with annual sales of US \$196 billion. To discover more, and for the latest news, feature articles and press material, please visit the Samsung Newsroom at news.samsung.com.