LEDs achieve brighter and longer-lasting light for buses and trains

The new generation of the Mini Topled and Topled LEDs from Osram Opto Semiconductors produce a uniquely pleasant white light in varying tones that is ideal for the interior illumination of buses, trains, airplanes and cars. The successful standard packages for these LEDs have been retained, but they now contain LEDs in a new brightness class with properties that include durability, resistance to electrostatic discharge (ESD), improved corrosion stability and certification to automotive industry standard AEC Q101.

The new generation of Topled and Mini Topled LEDs from Osram Opto Semiconductors have been tailored to the demands of public and private passenger transport for high brightness and high quality for interior illumination. These light sources combine a pleasant white light with a much longer lifetime of up to 50,000 hours for increased durability. These LEDs are among the most economical on the market because they are low-power components that consume only 0.1 W. And, despite their low power, their luminous intensity is most impressive. From an operating current of 20 milliamps (mA) and at a color temperature of 6000 Kelvin (K), the new Topled produces 2400 millicandelas (mcd). From the same operating current, the new Mini Topled achieves a typical luminous intensity of 1700 mcd at a color temperature of 4000 K, and 1900 mcd at 6500 K. Luminous intensity in candelas (cd) corresponds to luminous flux in lumens (lm) emitted by a light source at a particular solid angle.

The new generation of these two LED types benefits from further developments in chip and package technologies resulting in continual increases in light output. Added to that are the many years of experience that Osram has as a supplier in meeting the requirements of the automotive industry. These requirements include the high ESD of 8 kilovolts (kV) and improved corrosion stability. These semiconductor components are certified to the automotive supply industry standard AEC Q101 and meet the requirements that rail, road and air transport systems demand from components used for interior lighting.

http://www.osram-os.com/pr-Topled [1]

Source URL (retrieved on *10/25/2014 - 8:47pm*):
http://www.ecnmag.com/product-releases/2013/03/leds-achieve-brighter-and-longer-lasting-light-buses-and-trains?qt-recent_content=0

Links:
[1] http://www.osram-os.com/pr-Topled