

## Remco Demonstrates LED-Based Direct Replacement for Conventional Street Lights

After four years of extensive research and development, Remco Solid State Lighting, Inc., a Canada-based SSL Solutions Company, has recently patented power efficient light engine and prototyped an LED Street Light for an equivalent LED replacement of the conventional cobra head street light.

Its disruptive SSL technology utilizes the dynamic resistance of LEDs providing a LED light engine that is up to 98 percent power efficient, only a 2 percent power loss that enables optimal power and LED lighting efficiencies. IES certified photometric lab results and successful pilot field-testing conducted at Camp Borden military base have verified these industry-leading levels of performance.

"Real LED-based lighting application replacements for existing light sources must be direct lighting replacement solutions, lumen for lumen and LUX for LUX, plus offer the benefits of energy savings and reduced maintenance cost," said Ron Russell, Remco's CTO and inventor of Remco's patented LED light engine.

Mark Matthews, Remco's president and CEO said, "What we strive to achieve with

our SSL technology and LED lighting applications is equivalent useable lumens utilizing LEDs to replace conventional lighting with significant energy savings. Our light engine is up to 98 percent power efficient and this technology is the key, especially in high power lighting applications."

According to Alex Savu, Energy manager at Camp Borden military base in Canada (where

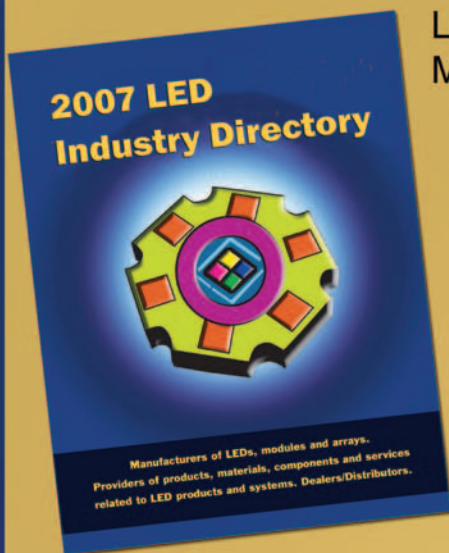


Remco's Bright LED Street Light is in the foreground and conventional HPS street lights in the background.

the LED street light pilot test was performed), conventional HPS street lights consume 138 watts (100 watt HPS bulb plus the ballast which consumes an additional 38 watts) and the Remco prototype (a light engine and LED fixture within a cobra head fixture) consumed 111 watts to generate 4,770 useable lumens, a direct lighting replacement.

"While the test confirms only a 20 percent energy savings at 40.1 lumens per watt, these results are excellent considering that we have incorporated our LED fixture within a cobra head fixture and lost 20 percent of the lumens output absorbed by the standard HPS cobra head lens; whereas, we could have generated approximately 5,300 useable lumens without the HPS lens," said Matthews. "When we complete our commercial product to replace all models of 100 watt HPS street lights with our patented LED light engine, proprietary thermal management and optics, utilizing 100 lumens/watt white LEDs, the commercial Remco LED street light luminaire will achieve approximately a 50 percent energy savings at 72 watts."

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