

TERRALUX Creates First LED Lighting Platform for the Cloud

TERRALUX Inc. is revolutionizing LED lighting technology with the introduction of its cloud based lighting system, LEDSENSE®. While light bulbs helped modernize the world, the technology has remained unintelligent throughout history, until now. LEDSENSE® is the first lighting technology that enables a light to essentially have the senses to see, smell and touch its environment while controlling energy use in a building through the cloud.

LEDSENSE® provides a scamless convergence by integrating with existing building information systems. Enabled with LEDSENSE®, a light can feel how warm or cold a room is, see if anyone is inside it and sniff out odors and potentially toxic chemicals in the air including smoke, carbon monoxide and harmful VOCs. By providing this information back to the building owner through the cloud, building performance, safety and security can be optimized.

"A light is no longer simply a device that allows you to see in the dark," said TERRALUX CEO Steve Hane. "We are



CFL downlights retrofit with Terralux LED LEDSENSE system, ready to be reinstalled.



deploying a LED platform that goes beyond basic illumination. Technology available in buildings today will pale in comparison to the capabilities we are building in the emerging cloud lighting space."

Utilities can issue 'Demand Response' alerts, and LEDSENSE® will automatically adjust light levels in a



Before – CFL downlights, mostly burned out, ready for LED retrofit

building to balance grid demand. If a light sees people enter a room it will raise the lighting to a brighter level. When people depart a room leaving it empty, the lights will be lowered, providing additional energy savings. If a dangerous gas is detected in the air, or if a person using a restroom leaves it odorous, the light can switch on an exhaust fan or trigger an alarm system. Advanced sensors provide safety and security information, and alerts—all through the LED lights.

LEDSENSE® can reduce energy costs and usage in a building by up to 90 percent. Additionally, building owners, security or maintenance staff can remotely monitor energy use, occupancy, air quality and other environmental factors in a building from a computer, tablet or smart phone simply by logging into their LEDSENSE® portal.

For more information about TERRALUX commercial lighting products and to read about installation projects at universities, multi-family buildings and other commercial facilities, visit: www.terralux.com.

46 Georgia Engineer