

LED High Bay Lighting

The Challenge

A US-Based manufacturer was faced with the challenge of reducing energy cost while providing a safe lighting level for the entire facility. Nearly 600 458W-HID fixtures were on at all times in a 24-hour operation, and some of the fixtures were on even when there were no workers in the area thus wasting electricity on unnecessary lighting. Finding an energy-efficient lighting alternative is imperative and the solution must also provide proper illumination for a safe work place and a fast payback for a good ROI (return on investment).



The Solution

An Aleddra partner proposed using 6-lamp LED T8 high-bay from HiLite LED (www.hiliteled.com). Each fixture is pre-wired at the factory and equipped with an occupancy sensor from Leviton. The fixtures and lamps were shipped directly to the jobsite, and the assembling was as simple as installing the lamps and hanging the fixtures. The sensor keeps one LED lamp on while the space was unoccupied, consuming as low as 20W, and turns on instantly all 6 lamps when the workers entered the area. The answer to the challenge comprises of:



- Aleddra's 18W UL-1598C LED T8, featuring the patented Double Safety Switch that allows ease of wiring and installation. Aleddra T8's have a high CRI and a lumen output better than 95 LM/W creating a pleasant, glare-free work environment.
- HiLite LED high bay fixtures, made of top quality sheet metal and designed to meet any facility environment for years of use.
- Sensor-controlled lighting, using only one LED T8 during unoccupied mode and instant lighting on all T8's when workers or trucks enter the area.



Results

- Estimated 80% energy reduction vs. the existing HID fixture with a fixture-for-fixture replacement.
- Local utility rebate of \$130,000 and a project payback time of less than 2 years.
- Lighting levels exceeds expectations even the fixtures are 30 feet above the factory floor.

"If you didn't think using LED T8's for a facility application like this was possible, think again. This is an impressive and very successful demonstration of Aleddra T8 for high bay applications. After touring the plant and meeting with the corporate energy managers, I can confidently say quality LED T8's are capable of meeting the needed lighting level and energy savings", confirmed by R.B. Evans, National Sales Manager with Aleddra.

In our next newsletter, we will look at the numbers for this project. For more information on how to take advantage of the Hi-Lite LED high bays with Aleddra LED T8, go to www.hiliteled.com or contact us info@aleddra.com.

