



Industrial LED upgrade improves manufacturing quality and energy efficiency

Overview

A.W. Chesterton Company is recognized as a leading sealing solutions provider for rotating, stationary, and fluid power equipment. Operating in over 110 countries, the company recognized that light is critical to finished product quality and employee safety.

In their Groveland, MA facility they were looking for opportunities to reduce operational expenses and improve operations. The company was operating 724 high-bay fixtures, each using six 4-foot T8 tubes without any motion sensing controls. In total, this represented more than 130 kW of lighting and maintenance on more than 4,300 fluorescent tubes with numerous non-functional fixtures in the space. But with all this lighting operating 24/7, the space was still dark.

The potential improvement in efficiency, light quality, and overall maintenance were reason enough to consider an LED upgrade, and to add to the benefits, lucrative electric utility rebates were available to greatly increase the payback.

The Solution

Any space operating high and low bay fixtures is a prime candidate for LED upgrades and a high potential for utility rebates. For A.W. Chesterton Company, this proved out with a rebate that brought their materials cost down to the minimum utility contribution of \$10 per fixture.

The proposed lighting upgrade was a Keystone high-bay fixture that also incorporated motion-sensing capabilities. The existing fluorescent high bays required 186 watts (including ballast draw), and the proposed LED fixtures only required 135 watts. With the efficiency gain of 51 watts per fixture and additional savings from the fixture controls, A.W. Chesterton Company was eligible for the maximum category rebate for this upgrade.

The company sourced all of the lighting from Regency and used their own electrical contractor to install the lighting. Regency completed all rebate paperwork for this project, allowing the customer to focus on the install and operations.

OBJECTIVES:

- Improve light levels and quality
- Integrate controls for greater efficiency
- Capture utility rebate for lighting upgrade

PROJECT OUTCOMES

- 5.8-month payback
- \$29,952 in minimum annual energy savings
- \$108,600 in utility rebates applied
- Night-and-day improvement to light levels
- Improved quality control in production
- Reduced lighting maintenance costs

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