



## Case Study | Roy Miller Freight Lines

Advanced Wireless Lighting Controls

### DETAILS

#### Project

Roy Miller Freight Lines

#### Location

Anaheim, CA

#### Project Size

30,000 sq. ft. / 3.5 acres

#### Lighting Manufacturers

Aleo Lighting

#### Existing Lighting

4-lamp T12 2' x 4' Prismatic Troffers

#### Products

Aleo Lighting LTR Troffer Retrofit Kits,  
Aleo Blue Wireless Lighting Controls

#### Controls Strategies

- High End Trim
- Occupancy Sensing
- Daylight Harvesting
- Manual Control | Dimming
- Luminaire Level Lighting Control
- Zoning / Grouping

#### Company Background

Roy Miller Freight Lines is a family-owned and operated California LTL motor carrier. They have been hauling cargo for over 50 years, offering the best transportation value across California.

#### The Challenge

Roy Miller's cross-functional facility has been operating with outdated lighting for over a decade. Their needs vary due to the multi-use nature of their office, dock, yard and shop. In the offices, there is a mixture of open office space, corridors, private office, dispatch office, and utility/storage spaces all with T12 fluorescent lamps with magnetic ballast.

The only controls used were manual On/Off switches with grandfathered California Title 24 compliant A/B "checkerboard" switching of 2'x4' prismatic troffers. Aside from low efficiency and high energy consumption, the outdated lighting and switching gave the space a dated feel and was not conducive to employee and occupant comfort and productivity. The existing troffers had yellowing and cracked lenses with inconsistent CCT lamps within the same troffer and within in the same space.

One chief complaint from the owner, Dan Miller, was that employees would consistently forget to turn off the lights when they left a space unoccupied, which happened frequently.





Aleo Blue | Wireless Lighting Controls

**74%**

Energy Savings  
w/o Controls Savings

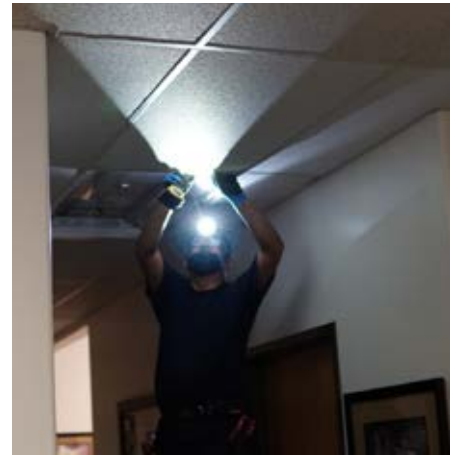
**10**

Months  
Payback Period

**50%**

Control Factor\*  
Energy Savings

\* Control Factor is an estimated figure based on high-end trim contribution and projections data for similar applications. M&V has not yet been conducted.



"We are all impressed with the difference upgraded lighting makes. I am very pleased the project stayed under budget and exceeded our expectations. The sensors are an added benefit and we hope to see more savings from them."  
- Dan Miller, Managing Partner



**The Goal**

The primary goals for the managing directors of Roy Miller are energy savings and reduction in operation and maintenance costs. Secondary objectives include improved functionality for occupants and improved aesthetics.

**The Solution**

Aleo Lighting LTR Troffer Retrofit Kits with Aleo Blue integrated PIR sensors allowed Roy Miller to achieve deep energy savings on a budget. The LTR kits delivered fast and convenient installation, significantly reduced labor costs, and minimal disposal costs. Aleo Blue integrated controls streamlined installation and implementation. Commissioning of the control system was simple and straightforward with the contractor being trained to provision devices in the field. The entire scope and execution achieved Roy Miller's goals of energy savings, reduced maintenance cost, improved occupant comfort and productivity. The results exceeded goals by offering even deeper energy savings with the implementation of advanced wireless lighting controls.

**Aleo Blue Lighting Controls**

**Luminaire Level Lighting Controls**

LTR Troffer Kit with PIR Sensor

**Manual Control**

Single Rocker EnOcean Dimmer

**High End Trim**

80%

**Occupancy Sensing**

Open Office and Corridor

**Daylight Harvesting**

Open and Private Office