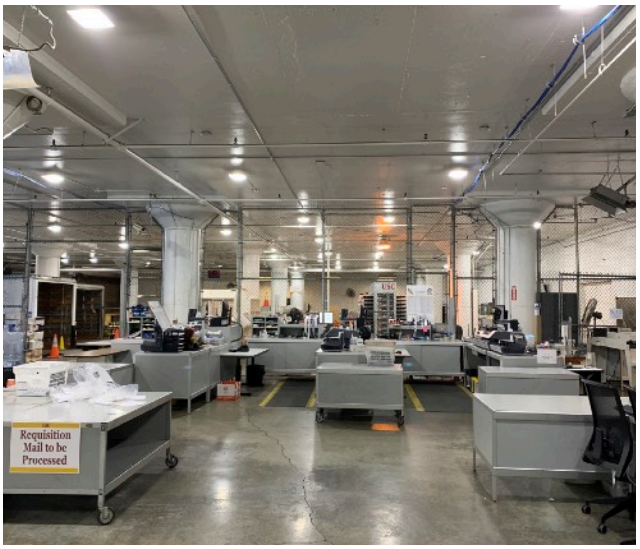
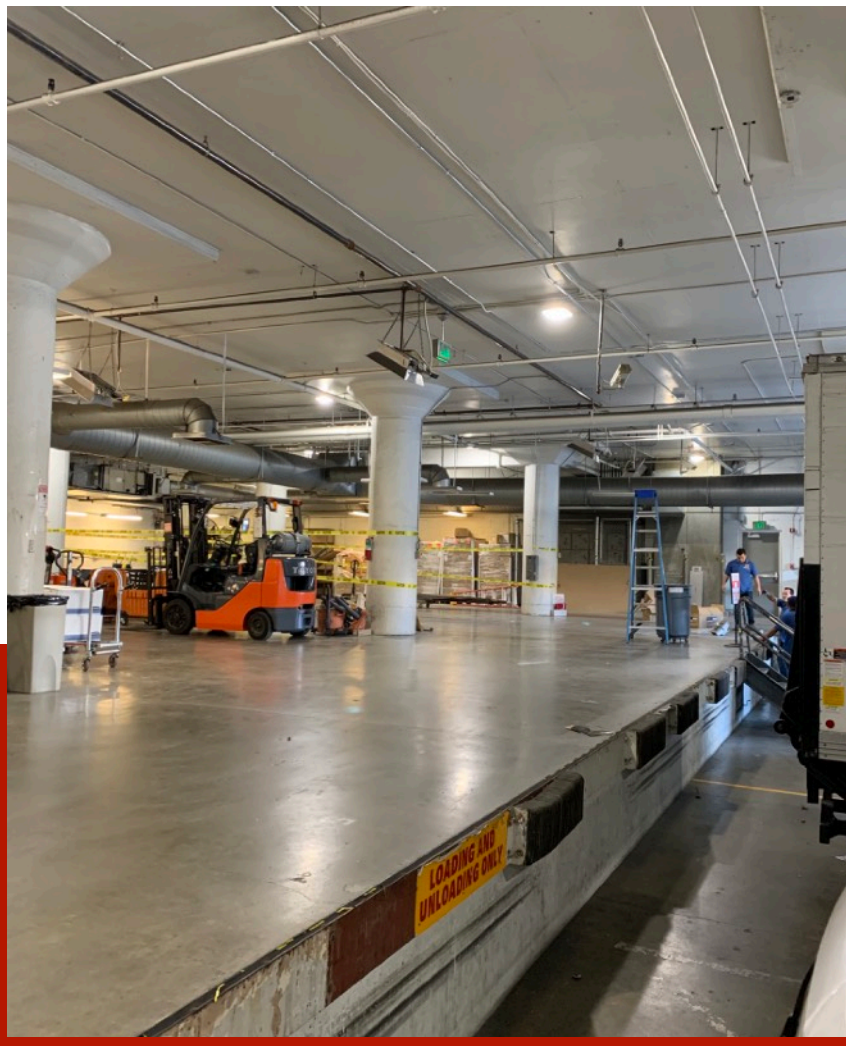
USC University of Southern California

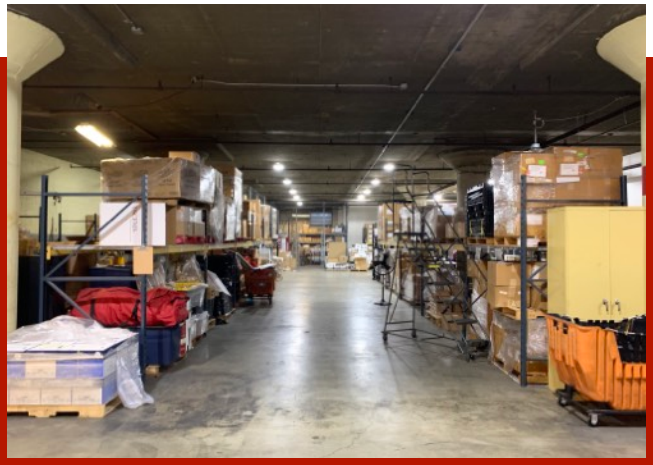
USC Installation Report

Conducted at:

UPX Mailing and Distribution Center







Location(s):
UPX Mailing and Distribution

Project Started 10.22.2019
Project Finished On going

Project Scope
1) Retrofit existing 150W HPS high bays to 50W LED canopies with motion sensors.
2) Comply with Title 24 Energy Code: 50% power reduction after 30min of no motion.

Report Prepared By
Peter Ha

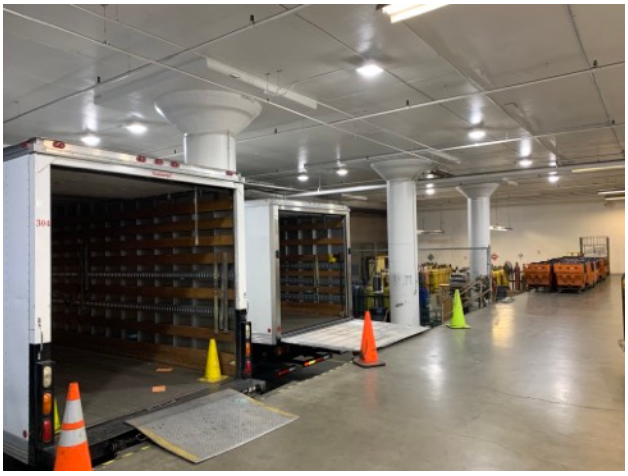
USC UPX Mailing and Distribution Center

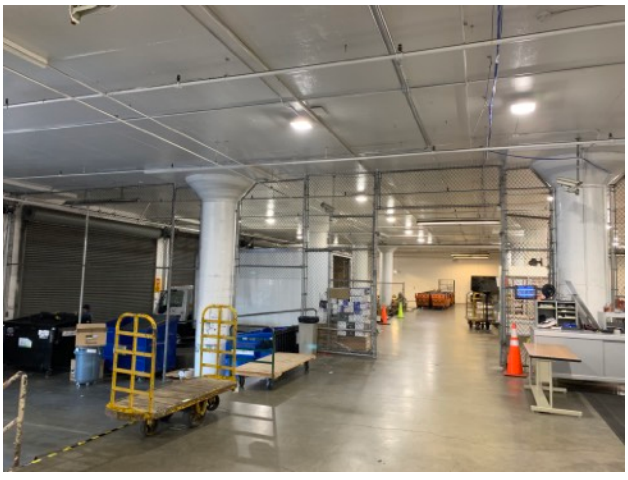
Overview:

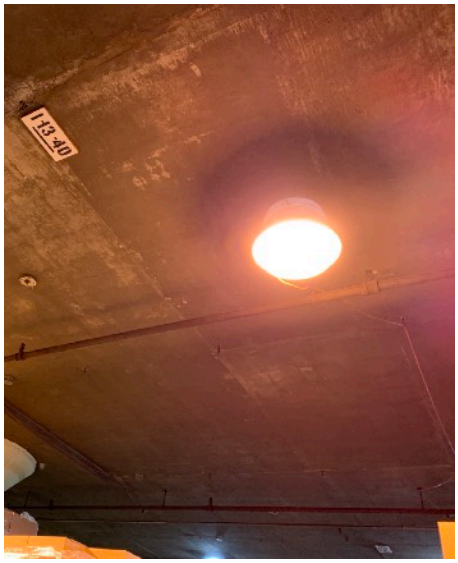
- Retrofit Locations: Mailing and Distribution Center
- Wattage Reduction of 65%-78% (20% additional savings for motion sensors)
- Projected Total Rebate: $240,976
- Total Project Cost: $247,779
- **Overall Payback: 0.1 year**

HIGH PRESSURE SODIUM (HPS) HIGH BAY FIXTURES

Description: ***Mailing and Distribution Center had 150W HPS high bay fixtures that were on 24/7 without any controls or sensors. Energy Services hired Optima Energy to retrofit the 150W HPS high bays to 53W 5000k LED Canopy fixtures with motion sensors (50% power cutoff after 30 minutes of no motion), reducing the energy consumption by 65%-78% while maintaining the acceptable foot candle level (from 25 fc to 20 fc).***





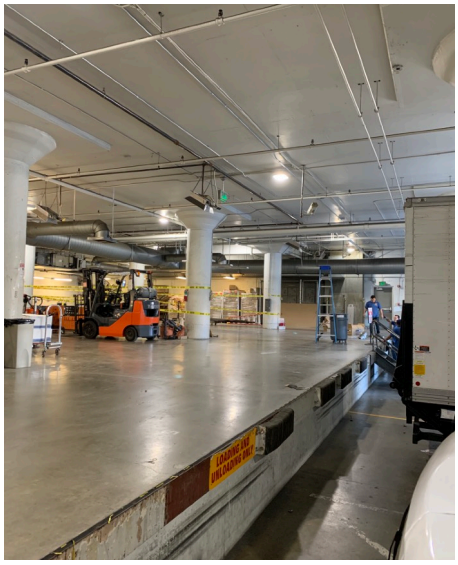


HPS High Bays (2000k)

Location: ***Mailing and Distribution Loading Dock***

Existing Measure: ***150W HPS***

Foot Candle: ***24.1 fc***

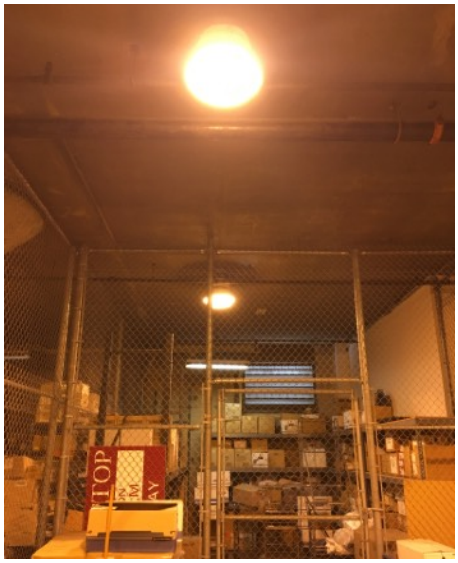


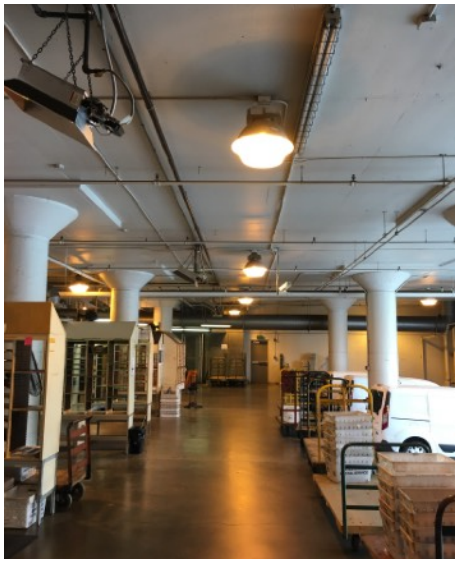
LED Canopy (5000k)

Location: ***Mailing and Distribution Loading Dock***

Proposed Meausre: ***MaxLite 53W Canopy/Motion***

Foot Candle: ***20.9 fc***



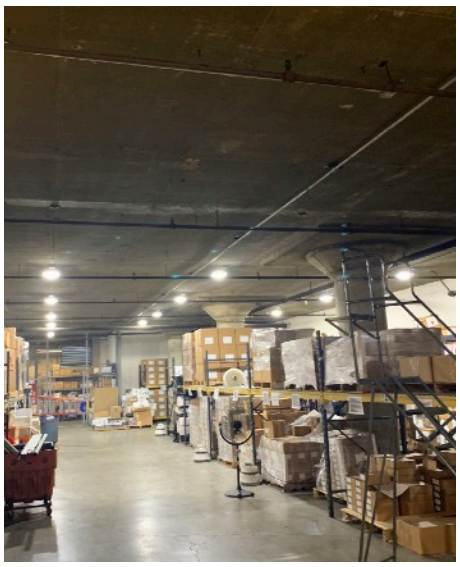


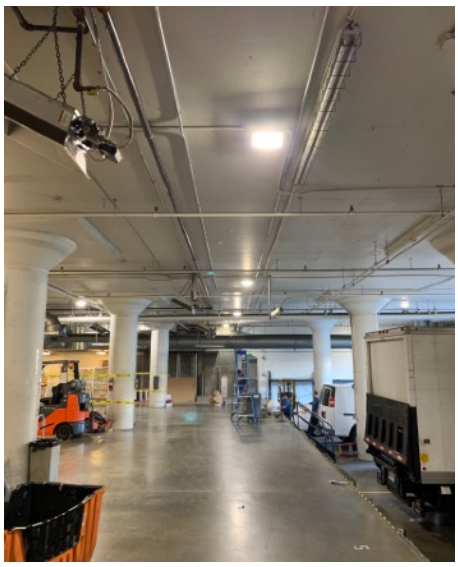
HPS High Bays (2000k)

Location: ***Storage Areas and Open Walkways***

Existing Measure: ***250w HPS***

Foot Candle: ***25-35 fc***





LED Canopy (5000k)

Location: ***Parking Exterior Roof***

Proposed Meausre: ***MaxLite Canopy(165w - Photo/Motion Sensors)***
Foot Candle: ***20-31 fc***