



GOVERNMENT

Travis County Correctional Complex

Travis County Correctional Complex, located near Austin, Texas, is a County Jail used by the jurisdiction of Travis County to confine inmates for short periods of time while awaiting trial or processing.

Challenges

Maintenance and the resulting security concerns are the main reasons the county wanted to retrofit ActiveLED® Lighting into their facility. Each cell includes a multi-lamp lighting fixture where a portion of the lighting is required to remain on 24/7 for security reasons. This resulted in frequent lamp failures requiring maintenance staff and security officers to spend valuable time changing out lamps.

ActiveLED®
Case Study

“It was taking an average of over an hour to change out each lamp,” said Mike Herman, Building Maintenance Supervisor. “This was due to having to get the inmate out of the cell, open the fixture, replace the bulb and secure the fixture again.”

Solutions

ActiveLED® engineered LED retrofit kits allowed the facility to continue using their existing cell fixtures, thereby saving thousands of dollars in fixture replacements. With ActiveLED® Fixtures and a 10 year, no-light-loss warranty, lamps no longer need to be changed out and it is expected that the facility won't have to work on the fixtures for more than a decade.

The facility also replaced all the outdoor security lighting on their Work Release Buildings with ActiveLED® WP1 Series Wall Packs with battery backup. This ensures that they will always have security lighting in the advent of power outages and back-up generator failures.

Results

The ActiveLED® Fixtures and LED Retrofit Kits provide brighter, more uniform lighting while saving the facility more than 41,400 Watts. It is also estimated that they will save more than 10,000 maintenance hours over the next 10 years. This equates to a savings of more than \$35,000 per year in energy and maintenance costs.



ActiveLED®, Inc., established in 2007, is an innovator of solid-state technology and manufacturer of commercial and industrial LED lighting fixtures. ActiveLED® is at the forefront of LED lighting technology and has revolutionized the standards of LED lighting to deliver better, cooler, longer-lasting lights that use a fraction of the Watts compared to other fixtures.

ActiveLED® is based in the United States with offices in the United Kingdom, France, Japan, and Singapore.



Project Summary

Customer:

Travis County Correctional Complex (TCCC)

Application:

Facilitate maintenance cost reductions and energy while improving light levels and consistency in 384 inmate cells

Lighting Product:

ActiveLED® Retrofit Kits
ActiveLED® WP1 Series Wall Packs

Before:

384 Inmate Reading Dual Control Fixtures
Linear Fluorescent Lamps @ 96 Watts per fixture. Total = 36,864 Watts

192 Shaving Light Fixtures
Linear Fluorescent Lamps @ 36 Watts per fixture. Total = 6,912 Watts

60 Wall Packs
Metal Halide Lamps @ 150 Watts per fixture. Total = 9,000 Watts

After:

384 ActiveLED® Dual Control LED Retrofit Kits @ 18 Watts per fixture. Total = 6,912 Watts

192 ActiveLED® Shaving Light Retrofit Kits @ 12 Watts per fixture. Total = 2,304 Watts

60 ActiveLED® WP1 Series Wall Packs @ 36 Watts per fixture. Total = 2160 Watts

Results:

- Reduction in Watts: 41,400 Watts
- Reduction in Maintenance Hrs./Yr: 1,000 Hrs.
- Total Estimated Cost Savings: >\$35,000/Yr.
- Payback: < 3 years
- Improved visibility and image recognition at night (Outdoor Fixtures)