

ThinkLite LED upgrade brings extreme efficiency to parking garage

Connecticut's Bradley International Airport is the second largest airport in New England with over 90,000 flights each year. With this level of passenger and visitor traffic, Bradley's public parking garage is in high demand and needs to provide a safe, well lit environment.

When the fluorescent lamps and ballasts throughout the garage required frequent replacement, the garage's property managers, SP+, decided it was time to upgrade to LED lighting.

Mike Skeggs, the SP+ facility manager at the Bradley Airport garage had heard that ThinkLite solutions were 30% more efficient than other brands and chose to put them to the test.

To keep the project cost down and maximize savings, ThinkLite proposed reusing the existing three lamp vapor tight fixtures and simply bypassing the ballast installing their high output T8 LED tubes.

The ThinkLite 14W LED tube, delivering 180 lumens per watt, was able to increase light levels dramatically while reducing electric consumption by over 60%. Plus, with an industry leading color rendering index (CRI) of 93, darker colors became more much distinguishable from each other; which is especially important for video surveillance and safety concerns.

Added benefits of ThinkLite LEDs is a rating of 70,000 hours, along with driverless design, negating the need to replace ballasts and eliminating the additional power consumption of the fluorescent ballasts.



ThinkLite replaced 32W FL lamps with 14W T8 LEDs highly increasing efficiency and light levels.

The project, which included a retrofit of 1,284 three-lamp vapor tight fixtures, is projected to save 629,244 kWh per year and 5.8 mil kWh over its projected lifespan.

ThinkLite's turnkey services included installation and recycling of the existing lamps. Most importantly, ThinkLite was also able to secure a substantial rebate from the utility (Eversource), which resulted in a payback of just 1.4 years.

Savings

Net Savings= \$929,215.84

Payback= 1.4 years

Current Solution

Average Bulb Lifetime: 18,000 hours

Ballast Power: Consumes 10% more energy

Lumen Depreciation: 40% at 18,000 hours

ThinkLite Solution

Average Bulb Lifetime: 70,000 hours

NONE

5% at 70,000 hours

With a strong commitment to providing organizations with breakthrough LED technology, ThinkLite is the most sustainable, energy efficient lighting solution in the world. This project resulted in a carbon reduction of 956,451 lbs. per year, the equivalent to planting 11,147 trees per year and removing 85 cars per year from the road.