

PROJECT OVERVIEW

Theodore Francis Green Airport – Warwick, Rhode Island

LED APPLICATION: Airport Arrival Roadway Lighting (Retrofit Installation)



“The new lighting in the arrivals roadway is phenomenal.”

Joe DaSilva

*Director of terminal maintenance
Rhode Island Airport Corporation.*

LED PRODUCTS



BetaLED THE EDGE area luminaires

- 62 with Type III optics and 60 LEDs

BENEFITS

- An estimated 134,000 kWh saved per year from lighting retrofit.
- BetaLED luminaires reduce energy consumption by over 50 percent.
- Anticipated annual energy savings of \$15,000.

Arrival Roadway Provides Welcoming Energy Savings



T.F. Green, a state-owned airport located in Warwick, R.I., is operated by the Rhode Island Airport Corporation. The airport has become a vital transportation alternative to Boston's Logan International Airport for air travelers in Southern New England.

Like many organizations and businesses, the Airport Corporation looks for ways to reduce energy consumption and costs, as well as reduce maintenance expenses. An overall energy audit with ConEdison Solutions was conducted to determine current usage and identify opportunities for efficiency and reduction as part of an Energy Saving Performance contract.

One area that was identified as needing efficiency upgrading was the airport's arrival roadway. Originally, the roadway had 150 175W metal halide fixtures that were wall mounted but directed straight across, providing inadequate illumination on the roadway. After exploring LED lighting through testing, a decision was made to install BetaLED luminaires by RISE Engineering with funding support through rebate subsidies from National Grid, the local utility, and ConEdison financial incentives.

"I'm astounded at the low wattage used to achieve the required amount of light," said Steve O'Neill, project development specialist at RISE Engineering.

Sixty-two BetaLED luminaires were installed, reducing energy consumption by over 50 percent. The luminaires provide greater lighting performance than the previously installed metal halide lights and produce a whiter light and significantly improved illumination.

"The new lighting in the arrivals roadway is phenomenal," said Joe DaSilva, director of terminal maintenance for the Rhode Island Airport Corporation.

An evaluation of the BetaLED luminaires' estimated service life and reduction of lighting maintenance, combined with funding and utility rebate subsidies available, will assist the Airport Corporation in determining if additional LED luminaires will be installed in exterior areas such as the airport parking lots.