

CASE STUDY



Lighting and Control System Retrofit Project

November 2013

Project Overview

As part of Transcon's Full Turn key solutions, a luminaire-control system design, upgrade installation and lighting system commissioning was implemented at Stryker Instruments, Arroyo, Puerto Rico. The upgrade was designed to improve the total cost of ownership of the facility's lighting system. A pre and post burn hour analysis was conducted throughout the facility to determine lighting control system solution energy impact. Light levels were evaluated room by room to ensure the areas met the Illuminating Engineering Society of North America (IESNA) lighting standards.

"The Lutron systems are ideal for retrofit projects and maximize our customers achieve greater energy savings than traditional luminaire upgrade solutions"

- Fernando Sosa

The Challenge

Transform the Stryker Instruments medical device manufacturing facility and reduce dependence on non-renewable energy. Transcon's goal was to design and install a lighting system that used as little energy as possible. Properly designed lighting control systems are key to achieving significant energy savings and reaching their energy efficiency goals. In addition, Transcon identified the need to take advantage of the significant daylight available on selected spaces and ensure that building occupants are comfortable and productive in their working environment.

The Solution

Transcon Lighting System luminaires and control system solutions integrate the Lutron-Ecosystem lighting control and Envirobrite luminaire retrofits that maximizes the use of daylight, saves energy and enhances productivity in the workplace



Stryker Instruments, Arroyo

Project Green Facts

Lighting and Control System Retrofit

• Square Feet	220,000
• Retrofitted Lighting Fixtures	2,478
• Energy Cost Savings	\$210,752
• Power Savings	67.6 kW
• Energy Savings	831,393 kWh

Numbers reflect annual project savings based on prior energy consumption, local electric rates and specific usage hours.