

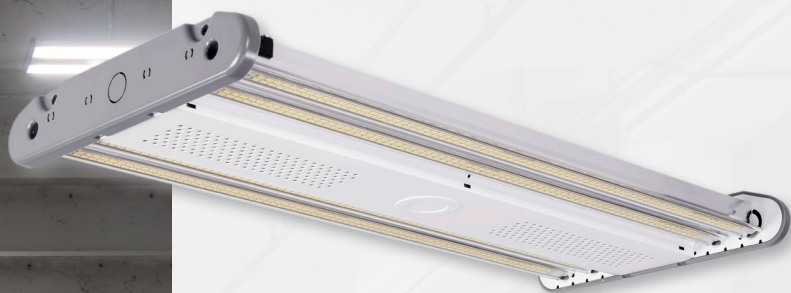
Miami International Airport



CASE STUDY

Location: **Miami, FL**

Application: **Airport Cargo Facilities**



Essentials Series 4.0 (ES4)

The ES4 delivers superior performance, quality and versatility in low bay and high bay applications. The fixture is designed to withstand tough environments, including a special gasket to prevent dust intrusion, which are rated IP5X, protecting against hazardous dust or other fine particles.

RESULTS

Miami International Airport replaced metal halides and high-pressure sodium high bays with 5,200 Essentials Series 4.0 High Bays in the cargo areas. The upgrade was in response to an energy savings initiative for the airport and they achieved 63% energy savings.

63%

ENERGY SAVINGS

2x

BRIGHTER

3.4M

SQ. FT. FACILITY

OVERVIEW

The Miami Dade County Aviation Department established an energy savings initiative for the Miami International Airport. They were seeking an energy partner to assist them with a massive energy efficiency project across the entire 3,230-acre footprint of the airport to improve its infrastructure and lighting in the cargo areas. Miami International Airport's cargo areas encompass 18 buildings, including warehouses, offices and support spaces. Long-lasting and energy-efficient lighting fixtures was a priority for the airport management team. With this project, the Miami International Airport sought to save energy, improve operations and attract new cargo clients.

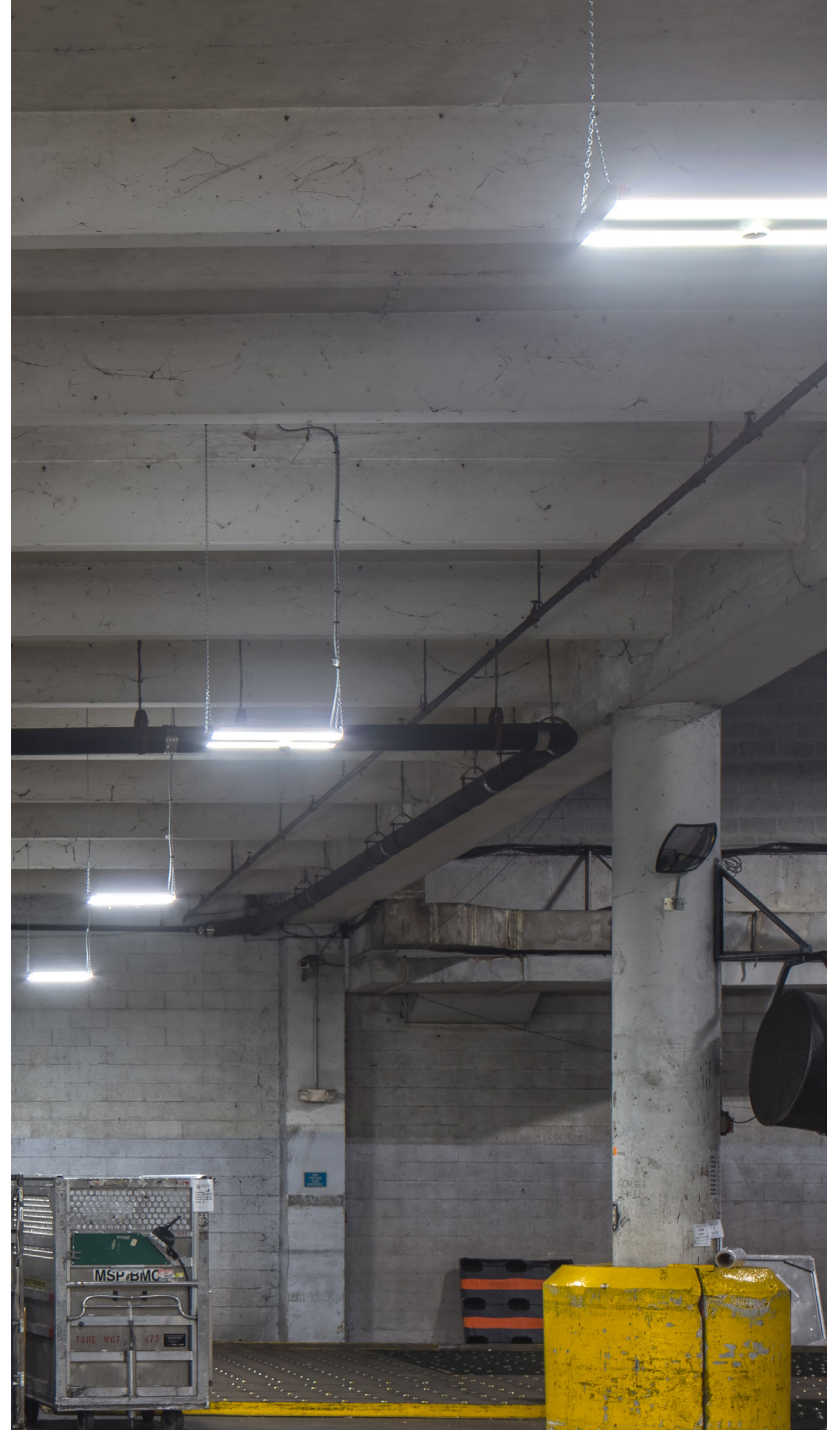
CHALLENGE

The Miami International it is ranked as the #1 airport in international freight in the United States; a 24/7 working environment with heavy use. Under this fast-paced atmosphere and the sheer size of the airport with all its facilities, it was a large enterprise to upgrade the lighting while avoiding disrupting services and operations in all facets of the airport. Being the cargo area a dusty environment with a high level of activity, the new LED lighting fixtures had to be dust resistant, long-lasting and highly reliable.

SOLUTION

To increase energy efficiency, the airport management sent out a request for proposal to select the right partner. After an in-depth approval process, FPL Services was awarded this energy performance contract.

FPL Services only selects products with the highest quality and highest performance for their projects. Under that philosophy they created the new lighting design with the Essentials Series 4.0 LED high bays with dust resistance option. Backed up with a 10-year warranty and the industry's recognition of efficiency, reliability and versatility of the Essentials Series the decision an easy decision.



“

We choose the best equipment for the term of the project. For this, we felt the Essentials Series was the best fit for the project in terms of reliability, performance and warranty.”

- Alex Acosta

Sr. Sales Consultant, Florida Power and Light Services

"As part of our service, FPL Services will do an extensive yearly audit that shows the airport that the project will pay for itself within a 15-year window and it is guaranteed by us," shared Alex Acosta, Senior Sales Consultant at FPL Services.

Considering the nature of cargo facilities and the dust blown up from the airplane engines, the project required lighting fixtures that could withstand this tough environment. The Essentials Series 4.0 LED high bays have a special gasket to prevent dust intrusion, which are rated IP5X, protecting against hazardous dust or other fine particles.

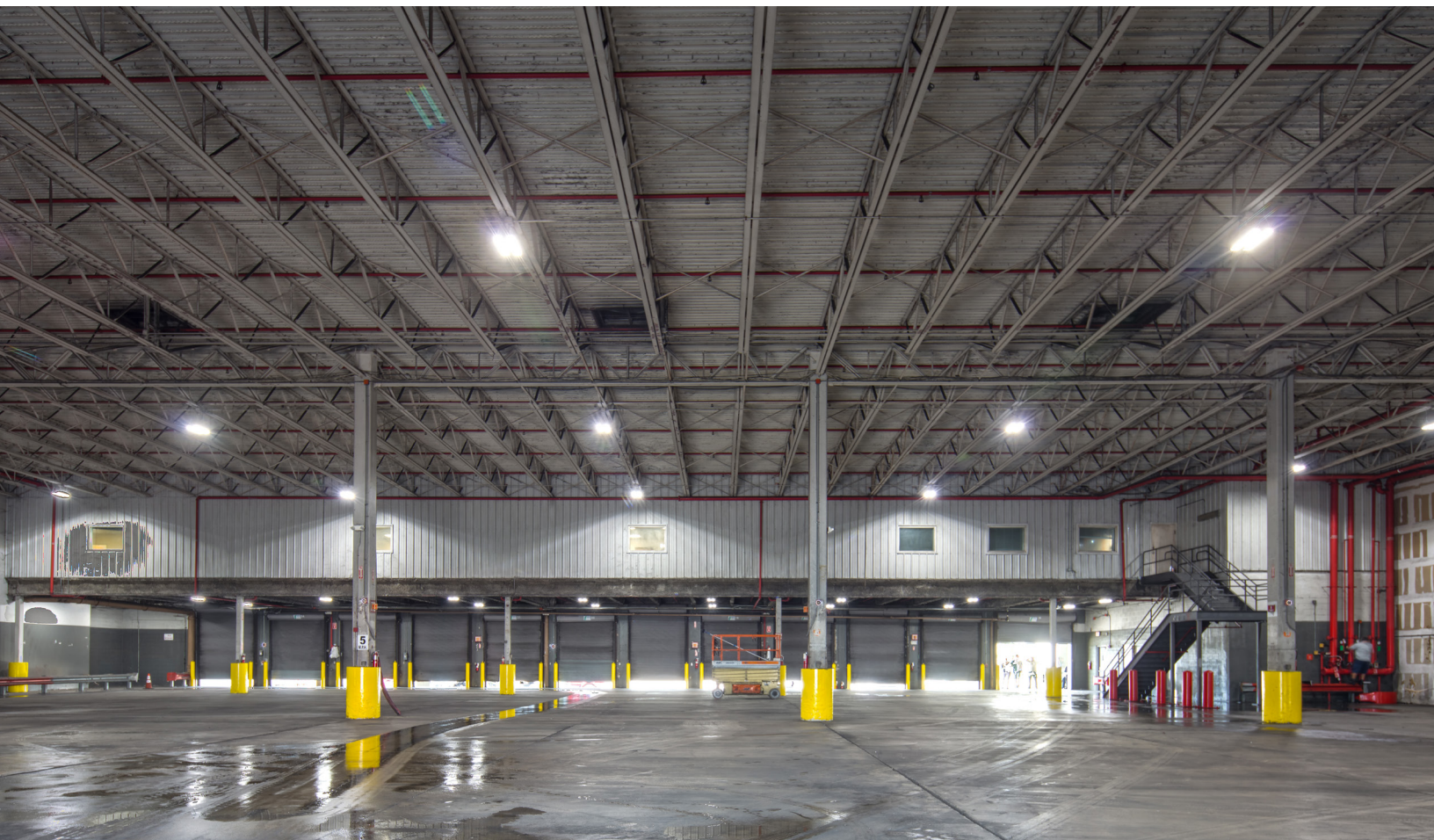
After FPL Services conducted an extensive energy analysis, they created a new lighting design plan to improve energy performance. They had to replace thousands of Metal Halide and High-Pressure Sodium high bay fixtures containing 250-watt, 400-watt and 1000-watt lamps with 5,200 Essentials Series 4.0 LED high bay fixtures across the 3.4-million square feet of cargo facilities.

RESULTS

The Miami International Airport is estimated to save 63% energy from lighting. The new LED high bays improved the illumination significantly. Depending on the area, light levels went up from 8 fc to 20 fc, 15 fc to 35 fc and 40 fc to 50 fc, achieving an average increase of 40%.

The improved illumination increased the safety of employees and the security of the cargo areas at the Miami International Airport. Essentials Series 4.0 LED high bays deliver light with high uniformity and low glare, improving concentration, productivity and visual comfort for the cargo employees.

With the Energy Performance Contract, the Miami International Airport is investing in not only future-forward and energy savings upgrades but also creating an enhanced facility environment. Their growth plans to increase cargo capacity supported by the benefits in efficiency and productivity from the lighting upgrade, the airport is aimed to attract new cargo companies.





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LinmoreLED
ULTRA PERFORMANCE LIGHTING

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