

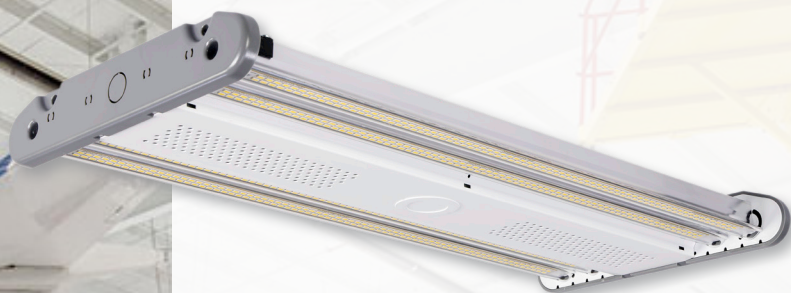
Executive Aviation Hangar



CASE STUDY

Location: **Eastpointe, MI**

Application: **Airport Hangar**



Essentials Series 4.0 (ES4)

The ES4 delivers superior performance, quality and versatility in low bay and high bay applications. Designed with an even higher efficacy and a best-in-class thermal management for ambient temperatures up to 65°C, the Essentials Series 4.0 provides the highest reliability and best lumen maintenance in the industry while providing the lowest TCO.

RESULTS

This executive aviation hangar replaced 88 6-lamp T5 fluorescent fixtures with the same number of Essentials Series 4.0 High Bays with the wet location option. The upgrade increased the light levels resulting in improved light distribution. Plus, they enjoy significant energy savings

\$15,495
ANNUAL SAVINGS

69%
ENERGY SAVINGS

3.21
YEAR PAYBACK

OVERVIEW

The executive aviation customer is a leader in the world of business aviation, from aircraft management and maintenance to private jet charter. Eco-Green-Energy conducted a free analysis of the lighting system of two of the customer's airport hangars located in a Southeastern Michigan County Airport and discovered there was an opportunity to improve the current lighting levels while reducing energy and maintenance costs.

CHALLENGE

After providing award-winning services for the past 50-years, the executive aviation customer had a requirement for a quality lighting fixture by a company that stands behind their product.

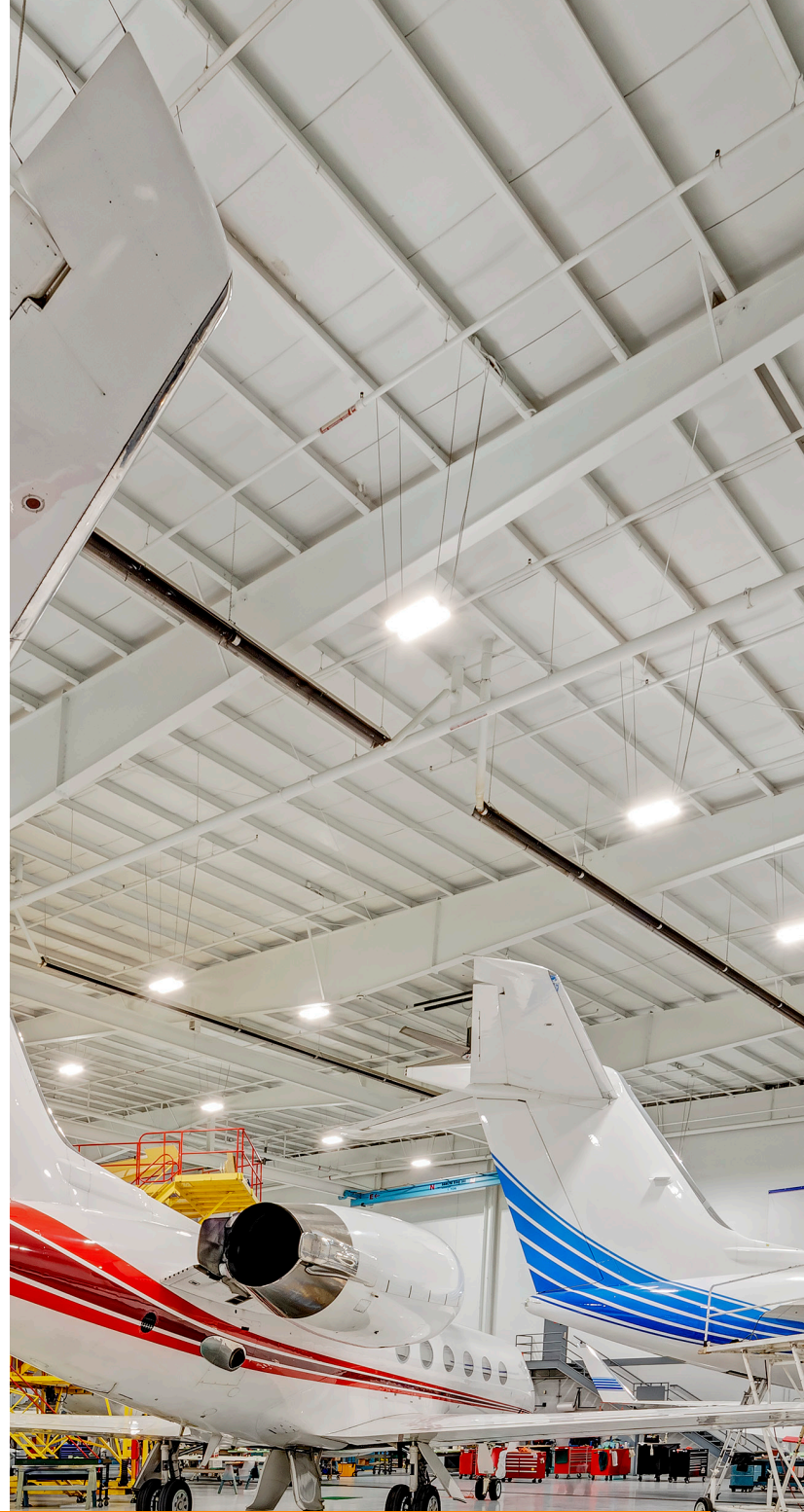
The challenge was to find the best product for the application to achieve the recommended light levels, with a special request. In this particular hangar, the lights hung down below the water suppression unit located above the airplanes. Due to a past situation when the fire sprinklers were accidentally activated, the customer had to replace their entire lighting system after it had been damaged. Not to experience that costly situation again, they requested the replacement lights to be wet location rated.

The last challenges to overcome were to seek final approval from the executive team – CFO and Head of Maintenance – coupled with working the lighting upgrade into the budget.

SOLUTION

Eco-Green Energy knew Essentials Series 4.0 high bays were the perfect solution for the job. They toured the customer's key decision makers to other facilities to showcase and see other Essential Series 4.0 LED high bay applications which helped the customer to move forward with the lighting upgrade.

"We have found their products to be high quality and a respected in the industry and easy to work with,"



“

The new LED high bay fixtures look great, provides significant savings and more efficient lighting.”

- Facilities Supervisor
Executive Aviation Company

shared Sheldon Wardwell, Principle and President – Corporate Strategy and Marketing of Eco-Green-Energy.

The project consisted of a one for one replacement of 88 fixtures, changing out 6 Lamp T-5 fluorescent fixtures with the Essentials Series 4.0 LED high bay luminaires with wet location rated option to meet the customer's special request.

"Eco-Green-Energy provided added value to us by advising us to wait for the new fixtures that are wet location rated, ensuring us that if the fire suppression system were to be triggered, the water would not damage the new lighting fixtures," shared the Facilities Supervisor of the Executive Aviation Company.

RESULTS

The light levels in the hangars were improved from 25 to 32 foot-candles. With increased light and even light distribution, this provided an overall enhanced atmosphere in the customer's hangars. With the customer, operating 6 days a week, 18-hours a day, achieved 69% energy savings after the lighting upgrade, obtaining annual cost savings of \$15,495. Additional savings are also expected from reduced labor and maintenance costs, not having to service 528 fluorescent tubes on a frequent basis and replace ballasts.

"The feedback from the customer's workforce has been very positive with all recognizing the improved lighting levels in the hangars," added Wardwell.





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ULTRA PERFORMANCE LIGHTING

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