

The Woodbridge Group



CASE STUDY

Location: **Lansing, MI**

Application: **Manufacturing Facility**



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

The Woodbridge Group replaced 621 6-lamp T8 fluorescent fixtures with the same number of Essentials Series 4.0 High Bays. The upgrade increased the light levels resulting in improved visibility and reduced errors. Plus, the rotatable modules optimizes the light distribution in the field.

599,149 kWh

ANNUAL ENERGY REDUCTION

73%

ENERGY SAVINGS

\$83,890

REDUCED ENERGY COSTS

OVERVIEW

The Woodbridge Group is a manufacturer of innovative urethane and particle foam technologies serving the automotive, commercial and recreational vehicle industries. Their 250,000-square-foot Lansing facility handles contract assembly for General Motors.

Interested in upgrading to LED fixtures, The Woodbridge Group's leadership team was unable to find a solution that met their application and financial requirements.

With a large focus on health, safety and energy conservation, they were seeking for an LED lighting solution that would increase light levels in their facility and enhance their employee's working environment while reducing operating costs and energy consumption. The Essentials Series 4.0 LED high bays proved to meet all those requirements.

CHALLENGE

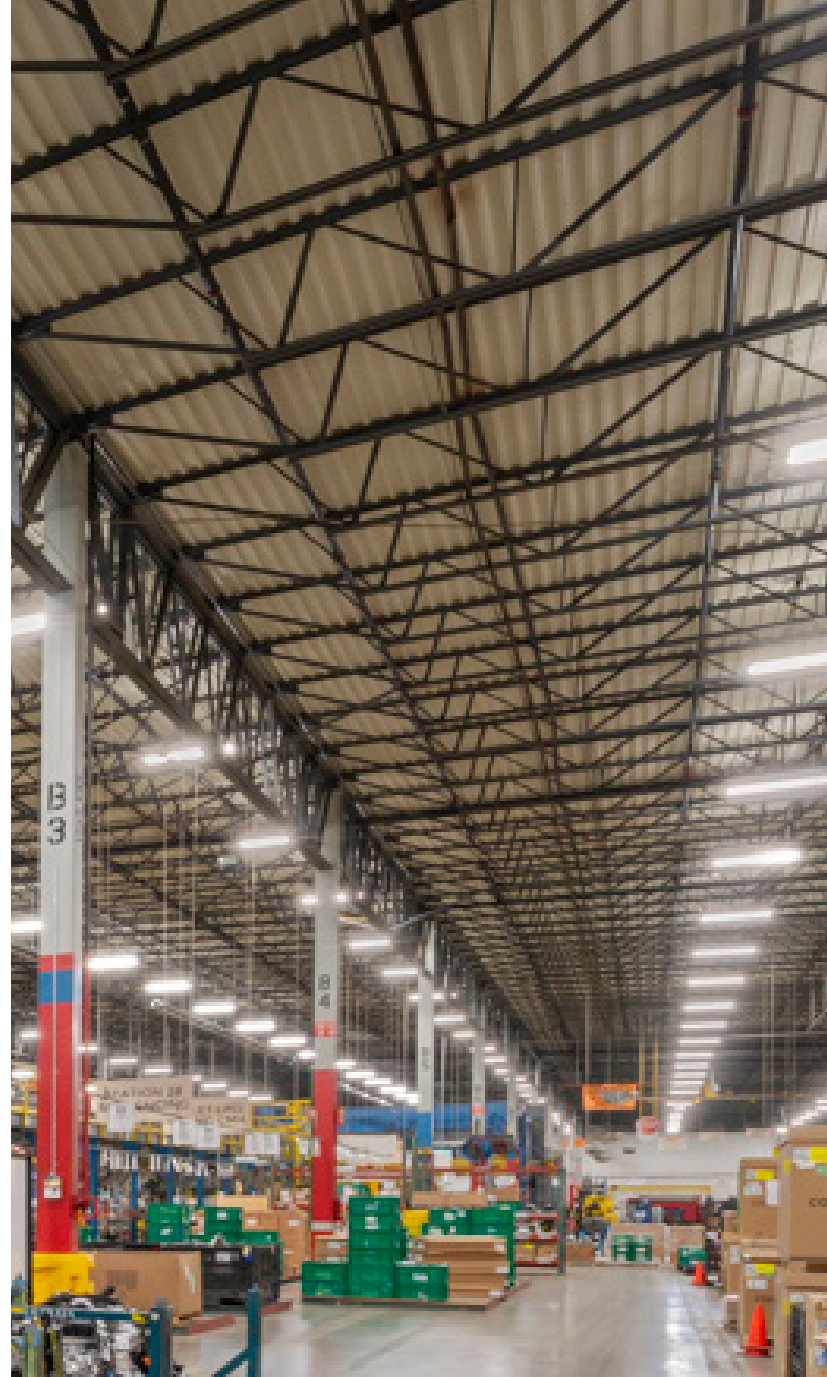
As a global company, The Woodbridge Group requires any facility improvement project to meet a 2-year payback window.

"We've been looking at LED lighting for a long time and tested some fixtures here and there. We could see the benefits as far as the quality of the light and energy usage reduced but they did not meet our 2-year payback requirement," said Scott Moore, Engineering Manager of The Woodbridge Group.

SOLUTION

Future Energy Group conducted a digital precision survey of The Woodbridge Group's Lansing facility. Their recommendations were in alignment with the leadership team's energy management conservation initiative.

The results of that analysis proved there was a huge opportunity for energy savings and the Essentials Series 4.0 LED high bays were able to meet all their requirements, including the 2-year payback.



“

There were several benefits that we found by selecting the Essentials Series LED high bays, but the really cool feature of the new lights was the fact that we could angle the lenses. It helped in the areas where we wanted the lights to fan out a little bit more and we were able to do that with the same fixture”

- Scott Moore

Engineering Manager, The Woodbridge Group

The energy efficiency, cost savings and the 10-year warranty of the Essentials Series 4.0 LED high bays impressed the leadership team at The Woodbridge Group. This allowed the facility to finally move forward with their LED upgrade project.

"It wasn't until I met Future Energy Group, they did a whole facility energy overlay and walked me through everything, then we really saw how big the savings were with the right LED lighting fixtures." Scott Moore.

The Woodbridge Group handled the installation of the project with their internal maintenance and facility teams. They replaced 621 6-lamp T8 fluorescent lighting fixtures with 621 Essentials Series 4.0 LED high bays.

"We choose Essentials Series High Bays because we wanted to give The Woodbridge Group a very efficient lighting solution. A lot of the other manufacturers didn't have the same lumens per watt ratio," said Sam DiNello, Vice President of Future Energy Group.

RESULTS

The high efficiency of these new LED high bays combined with the added savings from their integrated occupancy sensors, helped The Woodbridge Group achieve 73% energy savings.

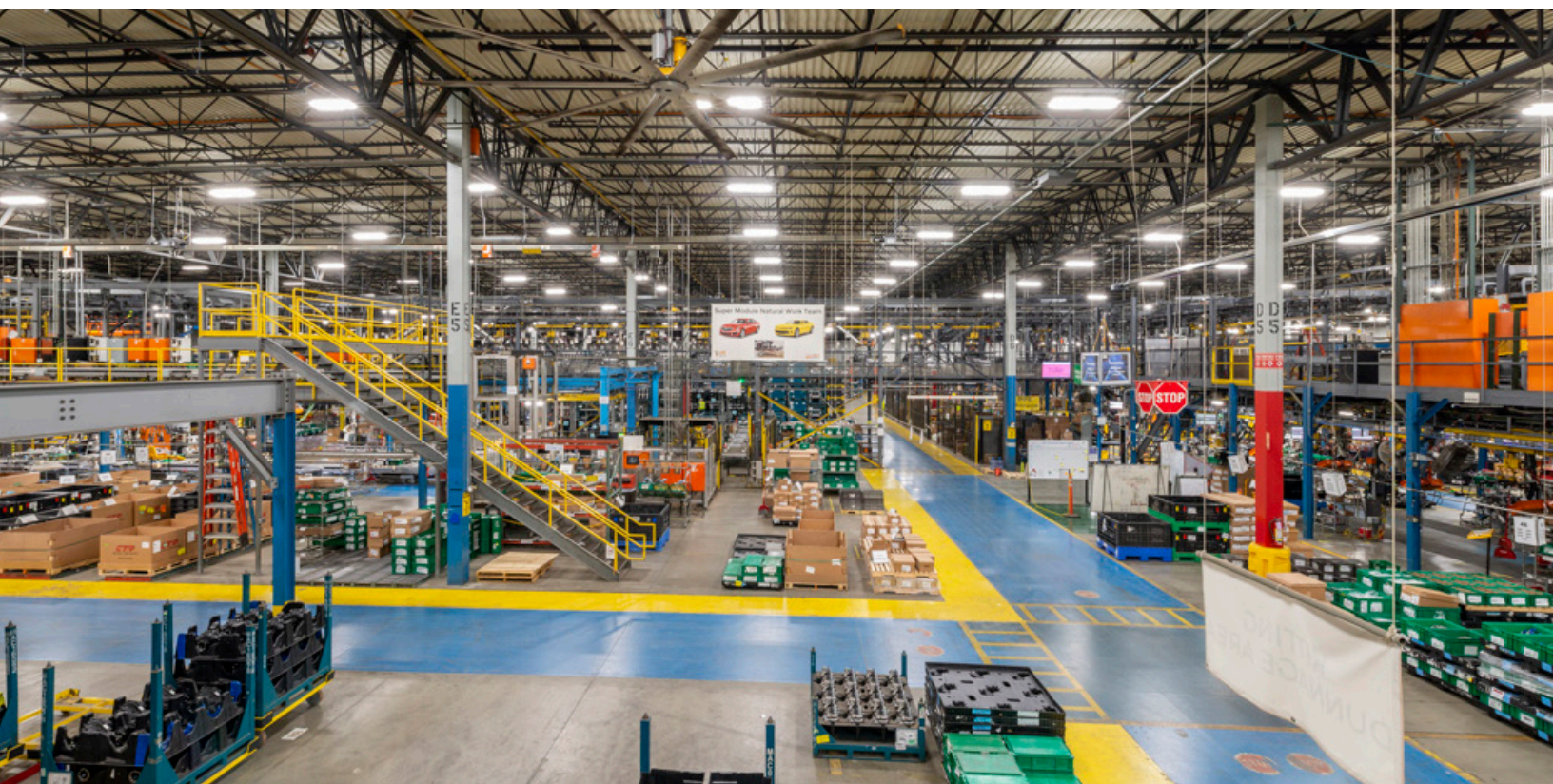
"We wanted to make sure we increased the savings as much as we could and Essentials Series 4.0 LED high bays accomplished that." Sam DiNello.

Based on the operating hours of this facility, it is estimated The Woodbridge Group will save \$83,890 per year in their utility bill and meet their two-year payback requirement.

Besides saving energy, The Woodbridge Group wanted to increase the light levels near their operators. The brighter output and higher light quality of the Essentials Series 4.0 LED high bays allowed them to significantly increase the foot-candle readings in those task lighting areas which improves visibility and reduces errors.

The field adjustable rotating modules are a distinctive feature of the Essentials Series 4.0 that allows to optimize the light distribution in the field to fit the facility and application requirements.

This allowed The Woodbridge Group to provide directional lighting for their operators, improving productivity and creating a safer environment for their 300+ employees..





THE WOODBRIDGE GROUP®



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