

Aerofab

A Division of Tube Processing Corporation

PROJECT OVERVIEW

- ▶ 80,000 ft² retrofit
- ▶ 57% less energy
- ▶ \$70K annual savings
- ▶ FAA illumination standards met
- ▶ < 2 year payback

"Many of my customers, suppliers, and numerous employees have made positive remarks and compliments about the new lighting."

Rick Ashcraft
Continuous Improvement
Program Manager
Aerofab
Indianapolis, IN

Background

Aerofab specializes in the manufacture and repair of aerospace turbines. Aerofab's Rick Ashcraft had some specific goals in mind when he considered a lighting retrofit project for their precision manufacturing facility in Indianapolis. "As stated in the beginning stages of the project, the main purpose of the entire project was to eliminate lamp disposal, fluorescent fixtures, and increase lighting output in the plant as well as the FAA repair station while reducing the total electrical cost."

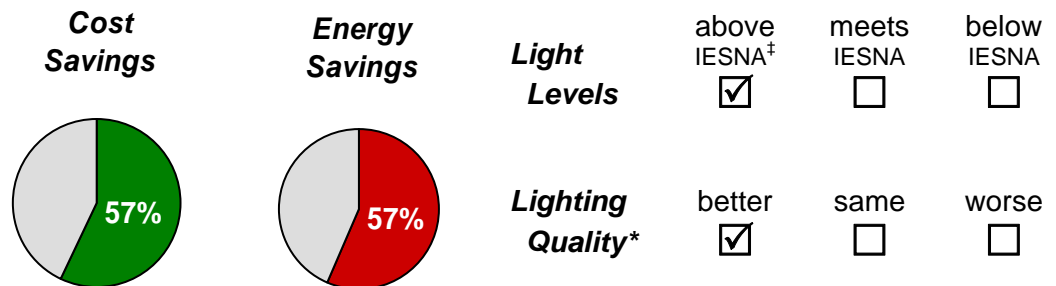
Solution

In order to best assess retrofit options in Aerofab's particular work environments, Ashcraft arranged for sample fixtures to be installed and tested. The successful trial installation of Stingray aluminum SFM high-bay fixtures led to the decision to implement a full retrofit. In total, 419 400-watt probe-start metal halide fixtures and 1,812 fluorescent T12 fixtures were replaced with just 475 Stingray high-bays utilizing 250-watt pulse-start metal halide lamps.



Results

"Light levels increased tremendously," said Ashcraft. With the Stingray lighting system the maintained light levels meet all FAA illumination standards for parts inspection. And this is with significantly fewer fixtures and a 57% reduction in energy consumption. Thousands of fluorescent lamps were eliminated along with the issues of ongoing lamp disposal.



A corresponding 57% reduction in energy costs was realized which translated to an annual savings of over \$70,000 and a simple payback of less than 2 years. "Stingray successfully met and completed all of Aerofab's objectives and goals," said Ashcraft.

[‡]application specific maintained illuminance recommended by the Illumination Engineering Society of North America

*as judged by the facility's staff and workers

Energy Effective Lighting
Stingray 

CARBON REDUCTION EQUIVALENTS



⇒ 3192



⇒ 213