

# EQUIPMENT TECHNOLOGIES

## PROJECT OVERVIEW

- ▶ 94,000 ft<sup>2</sup> retrofit
- ▶ 50% more light
- ▶ 100,000 kWh annual energy savings

*"I was very satisfied with every aspect of the SES sales process. The customer service was great, we achieved our goals as far as the light levels were concerned and were happy with the energy savings as well. We really liked the fixture style and they were easy to install. It was a good decision in choosing the SES fixture over the 6-lamp T5 fluorescent, less maintenance, greater energy savings, equal or better light levels and easier install."*

Adam Kivett  
Plant Supervisor  
Equipment Tech  
Mooresville, IN

## CARBON REDUCTION EQUIVALENTS



⇒ 205



⇒ 14

## Background

Equipment Technologies, Inc. is an innovative manufacturer of heavy-duty agricultural spraying equipment. In an effort to reduce energy usage and improve lighting quality, ET's Adam Kivett set out to test retrofit options for their 108,000 ft<sup>2</sup> Indiana headquarters. Kivett arranged for a trial installation of both 6-lamp T5 fluorescent fixtures as well as Stingray pulse-start metal-halide highbays. .

## Solution

After seeing that just four of the Stingray dual-reflector highbays outperformed eight of the T5 units, the choice was clear.

Lighting calculations were performed to confirm that a one-for-one retrofit would in fact achieve the desired improvement in maintained light levels. All 232 existing 400W lensed metal-halide fixtures were replaced with open-aperture 250W SFM Stingray highbays.



## Results

The retrofit resulted in a 37% reduction in lighting energy usage. The previous dropped-lens fixtures had yellowed over time and were producing insufficient illumination. As predicted ahead of time, utilizing open-rated, pulse-start lamp technology and dual reflector optics, the new lens-less highbays were able to provide maintained light levels in accordance with IESNA recommended standards.



In addition to the superior performance, Kivett was also glad to have avoided the substantial maintenance implications of the multi-lamp fluorescent option.

<sup>†</sup>application specific maintained illuminance recommended by the Illumination Engineering Society of North America

\*as judged by the facility's staff and workers

