

# CASE STUDY



Manufacturer Kiel, WI



Before After

*"Manufacturer saves 74% energy consumption in addition to sensor savings in production application."*



### LEHB Series LED High Bay Features:

- Projected L70: 180,000 hours
- Sensors can be integrated for additional energy savings
- Wireguard, emergency battery back-up and step dimming optional
- UL Listed and DLC Premium Listed
- 50°C Ambient Temperature Rating
- Low maintenance & energy efficient

## The Situation:

When management began noticing low brightness on the manufacturing floor, the engineering team set out to find newer technology to upgrade the existing lighting. One of the biggest contributing factors to the low quality of light was the degradation of the polycarbonate shields installed over each metal halide fixture: over time, the shields had become faded and discolored, reducing clarity. Burned out fluorescents were located throughout which further reduced light levels on the plant floor. In addition to visual acuity, the facility also aimed to cut energy consumption. Lights were illuminating unnecessary areas; they were often left burning when not needed to avoid the wait for re-strike/warm-up.

## The Solution:

FSC Lighting's LEHB High Bay was chosen to replace both the T12 fluorescents and Metal Halide fixtures, slashing the operating costs while enhancing the foot candle readings. FSC's 106 watt LED High Bay will use 29,244 fewer kilowatt hours (kWh) per year, an annual savings of approximately \$4,094. Since FSC Lighting's LEHB high bay is expected to last 180,000 hours, maintenance costs have been drastically reduced and the addition of programmable sensors eliminated the problem of lighting unnecessary areas because there is no redundancy in electricity.

	EXISTING	REPLACEMENT
TECHNOLOGY	Fluorescent/ Metal Halide	LED
SYSTEM	T12 Strips/ HID High Bay	LEHB Series
TOTAL SYSTEM ENERGY USAGE	158/ 460	106
CONTROLS	None	Occupancy Sensor
TOTAL ANNUAL kwh	39,318	10,074

**FSC Lighting  
delivers RESULTS:**

**ANNUAL ENERGY COST SAVINGS:**

**\$4,094**

**ANNUAL ENERGY SAVINGS:**

**29,244 kWh**

For more information about the LEHB Series LED High Bay and more FSC LED products call 909-948-8878