

# Superior Light Distribution Prompts Machine Manufacturer to Switch to Banner LEDs

## Application Summary

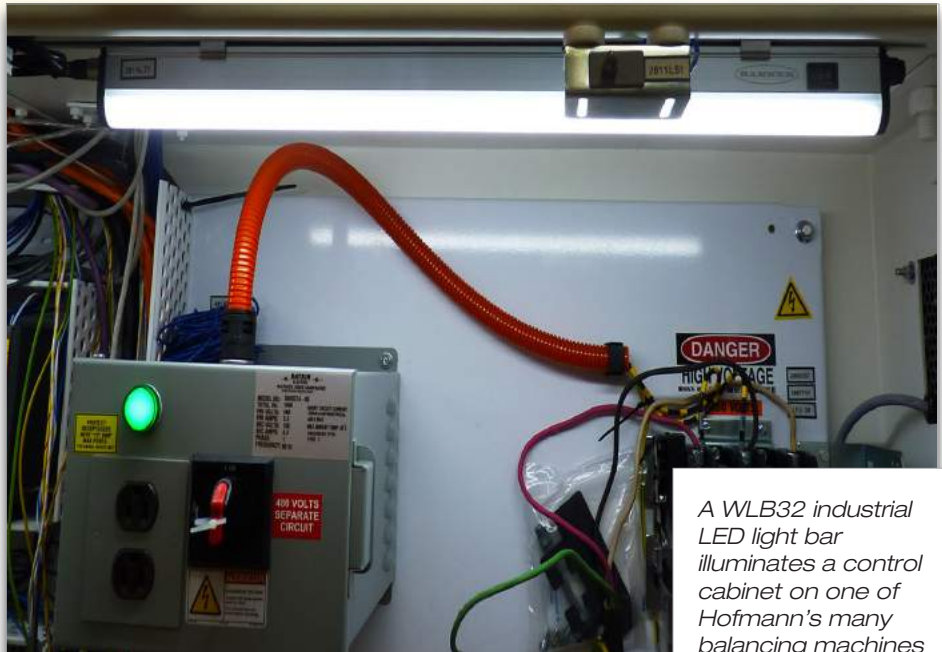
**Industry** – Assembly & Manufacturing

**Company** – American Hofmann Corporation, a provider of balancing machines and systems  
[www.hofmann-global.com](http://www.hofmann-global.com)

**Challenge** – Inconsistent, uneven illumination in work areas, enclosures and control cabinets

**Goal** – Implement a durable, maintenance-free lighting solution that provides vivid, even illumination

**Solution** – WLB32 industrial LED light bars provide brilliant, uniform illumination for the company's machines and balancing systems



A WLB32 industrial LED light bar illuminates a control cabinet on one of Hofmann's many balancing machines

## Why Banner?

**Uniform Illumination** – 120° beam angle directs the light to where it is needed, for an even, no-glare glow

**Flexibility** – The low-profile design and length options accommodate a variety of cabinets and enclosures, ideal for custom equipment

## Customer Benefits

**Value to End User** – By integrating Banner LEDs into their machines, Hofmann is providing their customers with years of maintenance-free illumination

*"I do not have a WLB32 that has failed yet, but I have many fluorescent units that have failed."*

-Dan Grosch, Electrical Engineering Manager, American Hofmann Corporation

## Background

American Hofmann Corporation designs and manufactures universal balancing machines and custom-designed balancing systems that meet the specific needs of their customers, regardless of the simplicity or complexity of an application.

## Challenges

To illuminate work areas, enclosures and control cabinets on these machines, Hofmann previously relied on fluorescent light fixtures—ranging from simple T8 fixtures to more complex and expensive fixtures protected by impact-resistant Lexan lenses. The lights were typically hard-mounted and wired into the equipment, requiring a separate AC circuit to power the lights. The light that was produced was inconsistent and uneven—too bright in some areas and not bright enough in others.

Machine end users had to regularly remove, replace and recycle the fluorescent bulbs. Periodically, ballasts would fail and have to be replaced. On

*"The fixtures we were using did not disperse the light correctly. No matter what kind of lens we used, the overall lux in the work area was not enough."*

-Dan Grosch, Electrical Engineering Manager, American Hofmann Corporation



occasion, an entire light fixture would have to be switched out. The more complex the maintenance required, the greater the machine downtime and expense necessary for the repair.

## Solution

After reviewing multiple fluorescent and LED lighting alternatives, Grosch chose Banner LED lights. Light distribution was a critical factor in the company's decision. WLB32 LED light bars provide uniform, daylight white illumination. Their 120° beam angle directs the light right where it is needed. The fluorescent lights distributed light in all directions at 360° and relied upon diffusers and reflectors to direct the light. The ease of installation and range of available mounting brackets also significantly influenced the company's decision.

*"Wherever you stand with a light meter you can measure the lux, and it's very even within the work area."*

-Dan Grosch, American Hofmann Corporation

*"The labor required to do the wiring is much less. You can cascade the lights from one light to another. The range of mounting brackets is also a convenience and a time and money saver. Overall, mounting and wiring a WLB32 LED light bar probably takes a quarter of the time needed to install a fluorescent fixture."*

-Dan Grosch, American Hofmann Corporation

## Conclusion

With an operational lifespan of 50,000 hours or more, Banner's WLB32 LED light bars simply outperform and will outlast the fluorescent light fixtures. They will never require a bulb or ballast replacement over their lifespan, providing years of brilliant, no maintenance machine illumination.

**WLB32 industrial LED light bars** are ultra-bright LED fixtures that feature an even light output for a no glare glow.



- High/Low/Off settings allow users to customize light levels
- Easy installation with snap clips, or a choice of magnetic or angle brackets
- Models available in lengths of 285 mm, 570 mm, 850 mm and 1130 mm
- Metal housing, shatterproof window
- Cascadable models enable continuous lighting with a minimum of wiring
- Efficient LED lights reduce energy costs

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