



Westinghouse



DISTRIBUTION CENTER

HUGO BOSS DISTRIBUTION CENTER

Midway, Georgia

COST SAVINGS

Demand Reduction vs. Metal Halides: **169 kw**

Annual Savings vs. Metal Halides: **\$49,867**

Annual Savings vs. "One Size Fits All"
Standard Fluorescent System: **\$18,199**



“We made the right decision in using Westinghouse as our daily kWh decreased by 46% and our foot candles doubled. Even though our building is just five years old, the improvement in all lighting and electrical areas has been tremendous. Thanks, Westinghouse.”

– Ralph Oakes,
Manager of U.S. Facilities,
Hugo Boss

PROJECT BACKGROUND

Hugo Boss, known for high end men's fashion, has a five-year-old distribution center in Georgia. The building was lit with a typical 400 watt metal halide system. Five years of heavy burn hours significantly depreciated the metal halide's light output. Rather than relamp the facility to raise light levels, Hugo Boss partnered with Westinghouse Lighting Solutions to develop a cost-saving alternative.

After some research and discussions with industry professionals, Hugo Boss management was convinced that a “one size fits all” 6-lamp T8 system was a “good enough” option. Hugo Boss then approached Westinghouse and was intrigued by the additional savings potential but skeptical that the light levels would be sufficient while using less energy and fewer lamps than the T8 system.

THE WESTINGHOUSE SOLUTION

The Westinghouse engineered system was designed using 3 different beam spreads to provide the necessary light levels for the various mounting configurations. By controlling the light accurately, the Westinghouse system directed the light to where it was needed. The success of this solution can be measured in 65% less energy per fixture, 44 fewer fixtures and a dramatic increase in light levels.

A 3-lamp 176 watt T5HO fixture was used throughout the facility in the three different beam spreads. Had the management installed a “one size fits all” T8 solution, not only would Hugo Boss have needed more fixtures and more energy per fixture, they would have also had to maintain more than 1,500 additional lamps in the facility.

Additionally, Hugo Boss was pleased to find out that the Westinghouse T5HO programmed rapid start ballasts are designed to work well with occupancy sensors, providing even greater savings. When an off-the-shelf T8 fixture instant start ballast is used on occupancy sensors, the lamp warranty is voided.

RESULTS

Over the next 10 years, the Hugo Boss distribution center in Georgia will save almost \$500,000 in energy costs, and with 3,000 fewer lamp changes, they will save more than \$75,000 in maintenance costs. At the same time, they will gain efficiency and enjoy a 35% increase in foot candles. In addition, the lighting power density (LPD) dropped to just .31 after the lighting system was installed, less than half of the required maximum to qualify for the \$0.60 per square feet EPC 2005 tax deduction.

PRODUCT FEATURES & BENEFITS

• Precise Optics & Advanced Reflector Technology

Customized reflector systems offer numerous beam spreads, which allow for the perfect solution based on the specific area and location to be lighted.

• Light Weight Aluminum Body

The aluminum body contributes to optimal thermal management of the ballast and the lamp.

• Snap Down Ballast Cover & Lock-in Mounting Bracket

Proprietary easy-access ballast design; no need for tools or to remove the lamps and reflectors to access the ballast. The mounting bracket provided allows for a quick install of the products.

• Instant On – No Buzzing or Flickering

No downtime due to power outages.

CASE PROFILE

Hugo Boss USA is a division of Hugo Boss AG, one of Germany's largest manufacturers of men's and women's clothing and one of the world's leading design houses for men's fashion. Hugo Boss operates stores throughout the U.S., serviced by distribution centers in the Savannah, Georgia and Cleveland, Ohio areas. The Savannah area distribution center is a 160,000 square foot facility serving 90+ stores worldwide with Hugo Boss clothing and accessories.

You can be sure...if it's Westinghouse 

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