



Westinghouse



DISTRIBUTION CENTER

ACE HARDWARE DISTRIBUTION CENTER

Maumelle, Arkansas

COST SAVINGS

Demand Reduction

272.46 kw

Annual Savings

\$120,154



“ We chose Westinghouse Lighting Solutions’ fixtures for our facility because of the incredible cost savings they were able to provide for us. We are extremely pleased with the final results. Not only are we saving over 60% on energy costs, but we now have 50% less lamps to maintain and our light levels have been significantly improved.”

– Lance Mize,
Ace Hardware Facility Manager

PROJECT BACKGROUND

Despite high electric bills, Ace Hardware was convinced they could not justify the cost of replacing old T8 fluorescent lights in their 580,000 square foot Maumelle, Arkansas distribution center with a more energy-efficient system. As a result, they ran their facility with 50% of their fluorescent lights turned off. A portion of the facility was lit with metal halide fixtures. Since Ace felt that retrofitting the facility would not be cost effective, the metal halide fixtures were not replaced even though the light output had depreciated significantly over time.

Ace and Westinghouse Lighting Solutions collaborated on a solution to improve light levels and reduce energy usage for the fluorescent system and the metal halide system.

THE WESTINGHOUSE SOLUTION

Westinghouse’s engineered solution solved their lighting difficulties using 639 fewer fixtures, eliminating their energy cost problem. The new Westinghouse system included a 2-lamp narrow-beam and a 3-lamp wide-beam T5HO solution to best fit each specific application. In the aisles and open area, the light levels increased by 35%, with less energy, fewer fixtures, and fewer lamps.

RESULTS

Even using a conservative building occupancy span of 10 years, Ace will save more than \$1.2 million in energy costs, yet enjoy up to a 36% increase in light levels. Additionally, over the same time period, Ace should save \$130,000 in maintenance costs as a result of the new fixtures having 2,556 fewer lamps.

“These are challenges where Westinghouse shines, and frankly these are challenges we enjoy,” said Jay Goodman, managing director, Westinghouse Lighting Solutions. “Ace is a very financially savvy end-user looking to save money but convinced by the lighting industry that because a T8 system was already in place, there was no economically feasible retrofit option. When we proposed a system using 639 fewer fixtures, the management at Ace was certainly skeptical they would achieve the proper light levels. However, after the demo fixtures were installed, they realized that if Westinghouse promised it, they could be sure they would get it.”

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

Ace Hardware is the largest retailer-owned hardware cooperative in the industry with 4,600 hardware, home center and building materials stores that generate annual retail sales of more than \$13 billion. Their distribution center in Maumelle, Arkansas, is a 587,000 square foot facility with 275 employees, servicing more than 360 Ace Dealers in nine states and is one of 15 distribution centers for Ace Hardware.

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

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