

CASE STUDY - STEEL DISTRIBUTOR

Background

The Steel Distributor has been at the forefront of cold-drawn and hot-rolled steel products for over 50 years.

Their Michigan distribution and machining facility when powered by 400Watt HID lamps with magnetic ballasts suffered from declining illumination levels and poor lighting conditions on the operating floor. In addition, they desired energy efficiency and greater control over their lighting system.

The Lumentek solution included Metrolight 400Watt SuperHID electronic ballasts dimmed to an average level of 270 watts. The ballasts are dimmable using the MetroControl™ software from a desktop computer interface. The lamp count was reduced from 181 to 149.

Summary of Results

	Magnetic	SuperHID
Number of Lamps	181	149
Lamp Power W¹	400	270
Power consumption W	471	287
Operating hours	24	24
Electricity cost \$	0.09	0.09
Total installation cost \$	-	73,000
Total annual electricity cost \$	57,034	29,437
Avg. annual maintenance costs² \$	6,172	1,694
Total annual savings \$	32,075	
ROI (Payback period in years)	1.69 ³	

Notes:

1. Lamps were dimmed from 400W to an average of 270W
2. Relamping every 12,000 hours with magnetic ballast and 36,000 hours with Metrolight Smart Electronic Ballast for HID™
3. The calculation of ROI includes the first year tax savings of \$18,908