



Ref: CS-SUPERIOR
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Superior

Background

Superior is a power cable manufacturer located in Israel and has production subsidiaries in Germany and North America.

After running a one-year pilot using 50 Super HID units, Superior decided to deploy the Metrolight solution across the factory in 2005. This solution includes 600 units of 320W SuperHID with 320W MH lamp set to 260W, instead of 400W magnetic ballast and lamps.

All units are connected through MADLI communication to the central computer running the Metro Control application for intelligent operation and dimming based on human activities and daylight harvesting.

Summary of Results

	Magnetic	SuperHID
Number of lamps	600	600
Lamp wattage / Setup	400W	320W/260W
Ballast type	Magnetic	SuperHID-320MH
Light output FC (lux)	FC 23 (250 lux)	FC 38 (410 lux)
Price per KWH	\$0.086	\$0.086
Annual power consumption KWH	2,318,049	1,185,683
Annual cost (US\$)	\$199,352	\$101,969
10 years maintenance cost ⁽¹⁾ (US\$)	\$95,040	\$39,600
Total 10 years cost (US\$)	\$2,088,561	\$1,059,287
Total 10 years saving		\$1,029,274

Notes:

(1) Revamping every 2 years with magnetic ballast and 5 years with SuperHID