

RPM

Background

The Detroit based RPM is a major supplier of special glues, sealing and proofing materials for the automation industry worldwide. The plant, built in 2002, has a 4,500 sqm production floor operating three shifts, 6.5 days a week.

Metrolight provides a complete solution for the lighting application, including electronic ballasts, central monitoring and a control system based on MetroControlPro and remote access via the Web. The central monitoring and control system enables automatically operating lights according to human activities in the factory.

SuperHID-300W MH electronic ballast with 300W MH lamps replaced the old 400W magnetic ballasts and lamps.

The electronic ballast has been divided into three categories and their output power set according to the ballast location:

- Production units/areas - 250W
- Aisles - 220W
- Warehouses - 160W

Summary of Results

	Magnetic	SuperHID
Number of lamps	130	130
Lamp wattage / setup	400W	320W / (250,220,160)
Ballast type	Magnetic	SuperHID-320MH
Light output FC (lux)	FC 13 (140 lux)	FC 23, 21,13 (270,230,140 lux)
Price per KWH	\$0.08	\$0.08
Annual power consumption KWH	459,034	236,180
Annual cost (US\$)	\$36,723	\$17,796
10 years maintenance cost ⁽¹⁾ (US\$)	\$54,900	\$25,900
Total 10 years cost (US\$)	\$422,140	\$203,920
Total 10 years saving		\$218,220

Notes:

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