FLUKE®

Lighting upgrade

ROI Success Story

Lighting upgrade reduced energy costs by $51,619/year

Facility type	Mixed-use warehouse, light-manufacturing
Equipment type	Incandescent lighting system
Measurements taken	• Light meter measurement of illumination levels, compared to operational requirements • Power logged energy consumption at lighting supply panel before and after • Compared operational schedule (when lighting needed) to power usage (how often lights turned on) over time • Audited all lighting fixtures and bulb types
Problems noted	• Foot-candle variance from 14 to 104, both over and under illuminating work-area compared to operational lighting requirements • No sensors, automated timers or other controls to consistently turn lights off when not in use • Total of 591 fixtures consuming an average of 450 watts each
Savings	• Changed lamp type to a low watt ballast consuming an average of 300 watts each • Reduced lighting system operational hours • Spent $65,366 on materials. Lowered annual energy cost by $51,619 plus a one-time federal tax rebate of $25,500. First year net: $11,253. Ongoing annual savings: $51,619
Recommended tool	Amprobe LM-120 Light Meter