



## New Williams GL Lighting Cuts Energy Use For Hi-Tech Company

**Axcelis Technologies, Beverly, Massachusetts** - Axcelis Technologies is a leading supplier of the technology used in the fabrication of semiconductors. They manufacture equipment for 20 of the leading semiconductor companies in the world.

"The 400-watt metal halide lighting in the plant wasn't energy efficient," explained Plant Engineer Paul Donhouser. "It required constant maintenance – we had someone assigned to lamp replacement two days each week, and had safety concerns after one of the lamps overheated and caught fire. So, we began to look at alternatives."

While investigating the latest in lighting technology, Donhouser learned about the Williams GL Low Profile lighting system. Replacing the three hundred 400-watt industrial fixtures on a one-for-one basis with the GL system could reduce energy use 41% with an expected increase in light levels of 17%. In addition, the Williams system would qualify for a \$48,000 rebate from Massachusetts Electric, resulting in a projected return on investment (ROI) of less than two years.

"We installed a four fixture test and employee comments of "outstanding and unbelievable" helped get the project approved," Donhouser noted. "It now looks like Fenway Park in the plant. Plus, I now see the energy savings each month on our utility bill."

### Job Specific Information:

- 300 metal halide industrials replaced one-for-one with the Williams GL 4 lamp 54-watt T5 luminaire
- Mounting height: 18' above floor  
Spacing: 18' x 15'
- Footcandle levels increased from 58 to 70
- Energy costs decreased 41%



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