



Utility Solves Lighting Problems With Williams GL System

Consolidated Edison, Astoria, New York - Over the years a variety of lamp types from mercury vapor to high pressure sodium have been incorporated in the lighting system at the Consolidated Edison Company of New York Central Field Service facility, in Astoria, NY. The 315,000 sq. ft. facility maintains and distributes an inventory of equipment and materials the utility uses to operate at peak efficiency for its customers.

Employee complaints about working under this multiple source system were on-going. Edison Lighting Specialist Peter Jacobson did an analysis of the system and developed criteria for a new lighting system.

"I wanted a new system to significantly improve quality and distribution of the lighting," Jacobson said. "It had to be energy efficient, highly reliable, and incorporate proven lighting technology. Finally, it had to create a positive work environment."

A study of lighting technology resulted in the selection of the Williams GL Low Profile luminaire, with 54-watt T5 fluorescent lamps. To secure approval for the selection, Jacobson installed 20 test fixtures in the building, mounted in areas as varied as material storage stacks and high bays.

"The test installation sealed the decision," Jacobson noted. "We've raised light levels 60%, to a maximum of 35 footcandles maintained, greatly improved lighting quality, and did it all while cutting energy use over 36%."

Job Specific Information:

- 500 mercury vapor and high pressure sodium industrials replaced one-for-one with the Williams GL 4 lamp 54-watt T5 luminaire
- Mounting height from 22' to 40' above floor with varied spacing throughout the facility
- Footcandle levels increased 60% to 35 maintained
- Energy costs decreased 36%



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