



Automatic Data Processing Roseland, New Jersey

11 Locations in:

New Jersey
New York
Pennsylvania
Connecticut
Colorado

Annual Savings
\$240,000 /yr.

Payback
9 months – 2 years

ADP Lighting Retrofit Writes a Check for Savings

ADP was at the head of the curve in 1992 when they retrofit their existing 2x4 18 cell parabolic fixtures to T8 lamps and electronic ballasts. Exit signs were also converted from incandescents to compact fluorescents. 10 years later they turned to Energy Solutions to further improve their lighting system and provide additional savings.

Beyond T8 Technology

The combination of three T8 lamps and electronic ballast in an 18 cell parabolic fixture is still regarded as a highly efficient combination. Energy Solutions designed a custom retrofit insert made of 92% reflective white material that increased the efficiency of the fixture, while reducing the number of lamps utilized from 3 to 2. The existing 3 lamp electronic ballast was re-used,

Payroll Management Company Reduces Energy Consumption of Existing T8 Lighting System While Maintaining Light Levels

providing an increased ballast factor with more light from the 2 lamps.

High lumen extended life lamps provide 7% higher lumens, with 50% less lumen depreciation and 20% longer life. The white reflector illuminates all cells evenly, and is comfortable to look at. Overall energy consumption decreased 25%, while light levels remained constant.

Other T8 Fixtures

In addition to the main fixture type, 2x2 fixtures utilizing T8 U lamps were converted to straight F17 lamps with a silver or white reflector, depending on the application. In addition to providing 25-50% energy savings, replacement lamp costs were reduced by 75%. 2X4 Prismatic recessed fixtures with two F32 T8 lamps were converted to one lamp with a special MIRO 4 reflector kit. This kit illuminated the fixture evenly using 1 lamp, while maintaining light levels.

Metal Halide Downlights

Recessed Metal Halide downlights were converted to Amalgam compact fluorescents, with energy savings of over 50%. The existing Metal Halide lamps suffered from severe lumen depreciation, providing too much light initially as well as suffering from color shift. New lighting was more appropriate to the task.

Controls

Wall switches in perimeter offices were replaced with occupancy sensors, providing savings of over 30% on average.

Exit Signs

New LED exit signs reduced energy consumption over 80%, while providing longer life.

Utility/Mechanical Spaces

Industrial fixtures utilizing F96 standard and HO lamps, as well as F34 T12 Lamps were retrofit with new reflectors and 4' T8 lamps, reducing the amount of lamps required by 50% and providing a standard lamp throughout the facility.

A Reliable Solution

New lamps have a 3 year warranty, and occupancy sensors, downlight retrofits, and exit signs have a 5 year warranty, giving ADP peace of mind and a predictable maintenance budget for the coming years. After reviewing electric bills for a 3 year period, Samy Alim of ADP confirms, "We are saving energy in excess of the estimates provided by Energy Solutions. We are very pleased with the results of this project."

Energy Solutions

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