

# Project Profile

## HONEYWELL - CITY OF CINCINNATI OUTDOOR LIGHTING

One of America's largest municipalities, the city of Cincinnati is steeped in tradition and history dating back to the 1790's. The city is home to some of the most unique architecture in the country and certainly the oldest west of the Allegheny Mountains. Preservation has long been a Cincinnati hallmark; using modern technology to improve the overall community has become a new municipal standard.



### Facility Type:

Outdoor Lighting

### # of Fixtures:

4,400

### Products:

12 distinct types of LED technology including custom designed "antique" fixtures

### Savings:

\$204,000 annually

### Situation

A community wide green initiative was endorsed by the city council and a comprehensive contract was awarded to Honeywell Energy Services for the design and implementation of energy savings projects involving all forms of consumption among city owned properties. Outdoor lighting, especially street lighting, was quickly identified as a significant source of energy savings and offered the potential to reduce city maintenance expenses. Improved lighting quality also carried strong safety implications for the community.

### Solution

Nearly 50 different types of outdoor lamps were retrofitted using only 12 standardized LED technologies. Included was the custom development of special street lamps and components to fit historical, antique and decorative fixtures throughout the city. The LED solution deployed lamps rated for over 100,000 hours of use, with 10 year warranties that guaranteed enhanced brightness and more consistent performance from street lights over a longer period of time. The resulting maintenance savings were significant. Parks, recreation centers and overpass/underpass lighting were also included. Honeywell partnered with lighting specialist Eco Engineering for both the design/audit and implementation phases of the outdoor lighting project. Installation was challenging given the "always on" environment and traffic flows of a major American city.

### Results

- **Annual Demand Reductions**  
Over 9,017 kW projected during the first year.
- **Annual Consumption Savings and Environmental Benefits**  
Estimated at 3,126,204 kWh annually - the equivalent of removing 4.8 million lbs. of carbon dioxide emissions from the atmosphere.
- **Reduced Billings**  
The implementation is expected to deliver approximately \$13,000 per month in energy savings and another \$4,000 per month in reduced maintenance expenses. The total annual energy savings will exceed \$204,000 per year.