

**LED**



**After**



**Before**

**SustainableLEDDesign™**

## **LED Site Lighting**

**Coweta-Fayette EMC  
Palmetto, Georgia**

**COOPER** Lighting

## Summary

- Coweta-Fayette Electric Membership Corporation (EMC), Palmetto, GA
- Parking area lighting
- One-to-one retrofit of metal halide (MH) and high pressure sodium (HPS) luminaires to LED

## Project Description

Coweta-Fayette EMC, headquartered in Palmetto, Georgia, has supplied electricity to homes and businesses in one of America's fastest growing regions for over 50 years. The utility continually evaluates new technologies to ensure it is offering the best options for its customers. As part of this commitment to serving its customers, Coweta-Fayette EMC partnered with Cooper Lighting to do a pilot project for LED outdoor area lighting at their corporate locations in Palmetto, Newnan and Fayetteville. By retrofitting their parking areas with LED lighting, they expected to gain a better understanding of LED technology, as well as benefit from the significant energy and operational savings.

The project included retrofitting the existing 400W-1000W MH and 150W-400W HPS fixtures with Cooper Lighting's Streetworks Ventus® (206W) and Traditionaire™ (58W) LED luminaires. As a result, the utility's electrical load for these areas was reduced by 57 percent (9.6 kW) resulting in a projected average annual savings of \$6,500 (42,000 kWh) with a 3.5 year payback.

"With Cooper Lighting's LED technology, we were expecting the benefits of excellent energy savings over our existing lighting," said Coweta-Fayette EMC Manager of Engineering, John E. Moore III, PE. "But we were pleasantly surprised by the overall performance resulting in significantly brighter and better lit parking areas. Everyone, including our employees and our customers, is very happy with the results."

## Benefits

- \$6,500 in annual savings
- Annual energy savings of over 42,000 kWh
- Reduced load by 57% (9.6 kW)
- Reduction equivalent to 31 metric tons of CO<sub>2</sub> emissions annually
- Maintenance-free for over 10 years



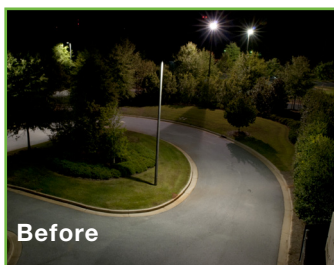
Streetworks Ventus®



Streetworks Traditionaire™



Before



Before



After



After

## About Cooper Lighting

The Cooper name has stood for innovation, service and expertise for more than 175 years. Today, Cooper Lighting's comprehensive capabilities in LED design, thermal modeling, accelerated life and reliability testing, photometric measurement, rapid prototyping and manufacturing are unmatched amongst North American lighting manufacturers. Cooper Lighting's 60,000 square-foot LED Innovation Center, located in Peachtree City, Georgia, demonstrates its long-term commitment to this transcending light source.

Partial funding for this project was made possible through the American Recovery and Reinvestment Act (ARRA) of 2009, and was provided through a Georgia Environmental Finance Authority (GEFA) grant.

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