

LED Outdoor Lighting Project Profile

First Tuesday Mall

Carrollton, GA

Situation

First Tuesday Mall, located in the west Georgia city of Carrollton, is a popular retail center serving many of the 25,000 residents of the commercial hub of Carroll County. Electric service to the mall is provided by Carroll EMC and the mall’s outdoor lighting is leased from Georgia Power.

In early 2013, Mimms Enterprises, the property management company for First Tuesday Mall, contacted the lighting experts at Georgia Power about adding additional outdoor lighting for one of their tenants. While plans for the additional lighting were being finalized, Georgia Power suggested that Mimms consider a switch to light-emitting diode (LED) lighting, both to lower the monthly energy usage and energy cost for outdoor lighting and also to improve the lighting at the mall.

Action Plan

Based on Georgia Power’s lighting analysis of the property, a proposal was made to replace the 54 existing 1,000-watt metal halide (MH) Galleria fixtures with 54 new 412-watt LED fixtures and install an additional pole with two LED fixtures to address the original lighting issue. The proposed LED fixtures would provide energy savings along with improved site lighting while retaining the white light currently in use.

The property management company accepted the LED lighting proposal and signed a contract for the new LED lighting in February 2013. Removal of the old MH lighting and installation of the new LED lighting was completed in April 2013. Mimms plans to promote the fact that the mall has gone “green” with the switch to LED outdoor lighting.

continued >



First Tuesday Mall

Carrollton, GA

The new lighting installed utilized 56 Cooper Lighting 412-watt Galleon LED lights in the 8 LED Light Square configuration. All fixtures have a Correlated Color Temperature (CCT) of 4000K and a Color Rendering Index (CRI) of 70. All existing poles and pole locations were used and one additional pole was installed.



Results/Benefits

- **Old Metal Halide System:**

54 - 1,000-watt (1,080 system watt) MH Galleria fixtures = 58,320 watts

- **New LED system:**

56 - 412-watt LED area fixtures = 23,072 watts

- 60.4% reduction in energy usage related to outdoor lighting
- Enhanced the safety and security of shoppers, employees and property
- LED lighting is directional – all light is directed toward the area to be illuminated
- Minimized/eliminated light trespass
- Greatly improved lighting uniformity (eliminated dark spots and hot spots)
- Long fixture life and reduced maintenance requirements
- Environmentally friendly (no hazardous materials to recycle, reduced energy usage lowers greenhouse gas emissions)
- Instant on/no warm-up time

Lighting Services • 1.888.768.8458 • outdoorlighting.georgiapower.com