



Haywood Community College Reduces Energy Consumption by 80 Percent With LED Solutions from Eaton's Cooper Lighting Business

Location:

Clyde, North Carolina

Segment:

Lighting

Challenge:

To reduce energy consumption and improve lighting performance in the college's auditorium, which accommodates various activities.

Solution:

Installing efficient Metalux Encounter™ and SkyRidge™ LED luminaires from Eaton's Cooper Lighting business

Results:

With new LED luminaires and controls, the college has improved lighting uniformity and output while reducing energy consumption by 80 percent.

"Our specific product knowledge and our past experiences of integrating existing dimming control systems allowed us to provide a solution with a much lower material and installation cost"

Scott Lackey, Graybar Lighting Business Development Manager, Graybar

Background

Haywood Community College in Clyde, N.C., offers more than 35 programs of study plus continuing education programs to more than 8,970 students. A resource for students of all ages, Haywood is a source of pride for the community, with its campus being used for a variety of activities such as weddings, picnics, graduations, meetings, dances, community theater productions and more.

Challenge

Wanting to promote a "green" campus, Haywood began taking advantage of a number of energy incentives and lighting upgrades, including changing out all T12 to T8 lamps in lighting fixtures across the campus. In fact, throughout the past few years, Haywood has installed multiple building control systems in all major classrooms to conserve energy, and has retrofitted all outdoor wall pack products to LED products.

Haywood decided to move forward with the next step on its internal energy plan by retrofitting the lighting in the theater of the Charles Beall Auditorium in October 2013. That's when Haywood Community College Energy Manager/Associate Director of Campus Development, Teresa Starrs, contacted Graybar, a leading distributor of electrical, communications and data networking products and provider of related supply chain management and logistics services, for assistance.

The new lighting system needed to accommodate various light levels for the many events held in the auditorium, as well as integrate with the existing ceiling, while remaining within budget.



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Solution

Graybar Lighting Business Development Manager, Scott Lackey performed a number of site visits and energy assessments before suggesting a new lighting system for the 6,978 square-foot auditorium. Keeping in mind the requested light levels needed for the multiple events held by the college and outside community users, Lackey proposed a solution that included new recessed LED products and a new control system. Despite the constraints of installing the new lighting system into an existing ceiling, Lackey's solution was well within the college's budget.

The new system consisted of a combination of Metalux Encounter™ and Metalux SkyRidge™ LED luminaires from Eaton's Cooper Lighting business. The new offerings would replace the existing 38, 500-watt incandescent and 54, 250-watt metal halide recessed products.

"Our specific product knowledge and our past experiences of integrating existing dimming control systems allowed us to provide a solution with a much lower material and installation cost," said Lackey. "We provided support to the installing contractor, Haynes Electric, and worked closely with our representatives at Eaton's Cooper Lighting business to coordinate the design and delivery of the product."

Results

The project was completed in January 2014, and is expected to offer an 80 percent energy reduction, amounting to \$6,000 in projected annual savings, with utility incentives in excess of \$10,000 and additional maintenance savings. The new design will also provide even uniformity while increasing the existing footcandle average in excess of 20 percent.

Pleased with the results of the project, Haywood looks forward to hosting a number of upcoming college and community events in the new, more energy-efficient auditorium.

"Haywood Community College is dedicated to making our campus as energy efficient as possible, and we are doing this one project at a time. The retrofit to LED lighting in the Charles Beall Auditorium was the next project on our list and a rewarding one," said Starrs.



Before new lighting system



After new lighting system



Encounter™ Series

SkyRidge™ Series

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