LED Lighting Case Study
Hartsfield-Jackson International Airport, Atlanta, Georgia
McGraw-Edison LED Valet Parking Garage Luminaire
Boost Long-Term Sustainability at Atlanta Airport

Summary
• Replaced 4,342 175-watt metal halide fixtures with McGraw-Edison Valet (80-watt) LED fixtures (6000K)
• One-to-one retrofit
• Annual energy savings of almost $500,000
• Payback is less than 3.4 years
• Annual CO₂ emission reduction is 3.9 million pounds, equivalent to taking 500 cars off of the road

Project Description
Officials at Hartsfield-Jackson Atlanta International Airport recognized a need for upgrading the parking garage lighting that would optimize energy savings, while continuing to provide a safe and well-lit environment for its passengers. After performing a mock-up of multiple competitive products with different lamp sources and analyzing their performance to find the best solution, they selected the McGraw-Edison Valet LED luminaire.

Funded by the City of Atlanta Green Loan Fund, Hartsfield-Jackson Atlanta International Airport officials decided to replace each of the 4,342 175-watt metal-halide fixtures that consumed 210-watts with 80-watt Valet LED fixtures in its north and south parking decks. This decision would not only lead to greater energy-efficiency, but also cost savings of almost half a million dollars each year. According to the City of Atlanta’s Office of Sustainability, the Airport’s financial and environmental partner, the carbon reduction associated with the project is equivalent to taking 500 cars off of the road.

Featuring Cooper’s modular LightBAR™ technology with patented AccuLED Optics™ system, the Valet LED fixtures deliver uniform and energy conscious illumination optimized to improve vehicular movement and pedestrian safety in parking structure applications. Both factors were key to Airport officials who hoped to improve the distribution of the lighting in the Airport parking garages while also optimizing energy savings. The Valet LED fixtures will also reduce maintenance costs as they are designed to last more than 50,000 hours.

Replacing parking garage lighting with more energy-efficient options is one of the most practical upgrades a city can make to save energy, reduce costs and lower carbon dioxide emissions. By choosing to upgrade with the Valet LED luminaire, officials have increased overall efficiencies and performance to provide a safe and well-lit environment, all while helping the City of Atlanta save almost $500,000 each year in energy costs.

About Cooper Lighting
Cooper Lighting is part of the electrical business of Eaton. Eaton acquired Cooper Industries plc in late 2012. Cooper Lighting provides world-class lighting, LED and controls solutions to commercial, retail, institutional, residential and utility markets. Cooper Lighting is committed to helping businesses and communities leverage the latest technologies to improve energy efficiency, reduce costs and enrich the quality of the environment. Cooper Lighting. Innovation you can rely on™. For additional information, visit www.cooperlighting.com.

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