



A Bright and Sustainable Parking Lot Accelerates Safety

Project Name: Clemson University Location: Clemson, South Carolina

PROBLEM

After a lighting evaluation, one particular student lot at Clemson University needed a lighting upgrade. The lot was inefficiently being lit with outdated 400W metal halide fixtures, which were mounted on 20-foot poles hampered by low hanging tree cover. Because of this and their short lamp lives, the lighting required constant monitoring to ensure all the lights were functioning and providing resident students the visibility and security needed. Additionally, the metal halide fixtures did not allow for dimming or timing with only two operational modes – all on or all off. This problem combined with Clemson’s goal to become carbon neutral by 2030 made LED lighting a seamless solution.

SOLUTION

Clemson University Parking and Transportation Services installed Kim Lighting’s Altitude equipped with Hubbell Control Solutions’ wiSCAPE™ Wireless Lighting Control System. Because of the bright, uniform distribution of the Altitude, Clemson was able to install them on lower 18’ poles eliminating the tree cover issue. And with the wiSCAPE platform, the fixtures are programmable and dimmable using any networked device, giving the university the ability to reduce output and energy consumption during holidays. Prior to the retrofit, the halide fixtures were burning at 100% to adequately illuminate the areas while the LED fixtures now burn at 35% while providing an even, white light—ultimately reducing energy costs alone by almost 40%.

Following the success of the initial lot, the lighting products and technique have become a University standard. It has now been installed in ten (10) lots across campus including the new Football Operations Facility and the Douthit Hills Student Residential Area. With the large number of sites being controlled, Clemson implemented the wiSCAPE Enterprise System, which provides multi-site management and customize reporting through a single web-based GUI interface.

PRODUCTS

[Kim Lighting Altitude](#)

[Hubbell Control Solutions wiSCAPE™ wireless lighting control system](#)