



SUCCESS STORY

Multi-modal Parking

Kent, Ohio



SNAPSHOT

PROJECT:

Kent Central Gateway

SCOPE:

New construction of multi-modal parking garage/bus terminal

CHOSEN LIGHTING:

140 of Venture's 125 Watt Super Pulse Start Long Life (SPL) Lamps

LIGHTING OPTIONS CONSIDERED:

LED, Fluorescent, HPS, Induction, Metal Halide

TRANSFORMING A DOWNTOWN PROJECT SUMMARY

The Kent Central Gateway (KCG) is a multi-modal facility located in downtown Kent, OH within one-quarter mile of Kent State University and the Cuyahoga Riverfront. The structure not only provides parking for the public transportation bus bay it houses, but it also includes bicycle amenities to improve transit accessibility in Kent and connections to Cleveland and Akron.

Completed in July 2013, the KCG is a model for environmentally friendly building design with over 265,000 square feet of space for retail, office, residential, hotel and conference center use in the area surrounding the parking garage building. The completed project is expected to create \$105 million in public and private development in Kent, over 700 new long-term jobs, \$5.8 million in annual tax revenue and improved livability for both students and residents of city neighborhoods, downtown Kent and Kent State University.

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Transforming a Downtown

EPIC Design Group, the electrical engineering firm awarded the project, was tasked with finding a sustainable lighting solution that offered the best performance with low maintenance while staying within the project budget.

THE CHALLENGE

Rick Quinlan, of EPIC Design Group, spearheaded the comparison of the different lighting system options and the variety of factors each option offered. Comparing metal halide technology to LED, induction and fluorescent lighting systems showed that while the fluorescent option offered the overall lowest cost, it could not operate in the temperature extremes present in a Northeast Ohio parking garage and could not match the excellent lumen output of Venture's metal halide system.

Similarly, the LED system could not stack up to metal halide.

LED energy savings of about \$15,000 did not trump the fact that the LED life cycle cost was more than \$150,000 higher than the life cycle cost of Venture's metal halide system. Aside from requiring a high performance and economical lighting solution, the client was also concerned with the cost of replacement lamps and components, the ease of obtaining replacement parts and the

level of maintenance necessary. LED technology did not win out in this department either; replacing a metal halide lamp is much simpler and more cost effective than replacing an entire LED board.

THE SOLUTION

"I believe in doing the comparisons for each system and then providing the client with the data so an educated decision on the best system available can be made," said Quinlan. "That is exactly what was done for this project, and the Venture Super Pulse Start Long Life (SPL) was the perfect choice for both the client and my design."

In addition to having the lowest replacement lamp price, Venture's 125W SPL lamp with 40,000 hours rated life was chosen because it presented a low energy cost for the high maintained lumens and lumen output, low initial installation price and low life cycle cost. Along with the lowest price for the most value, the SPL metal halide system also offered the best uniformity in both horizontal and vertical burning positions. The vertical foot candle level and uniformity were important at the KCG to ensure proper security camera performance, and the LED option could not offer comparable uniformity.

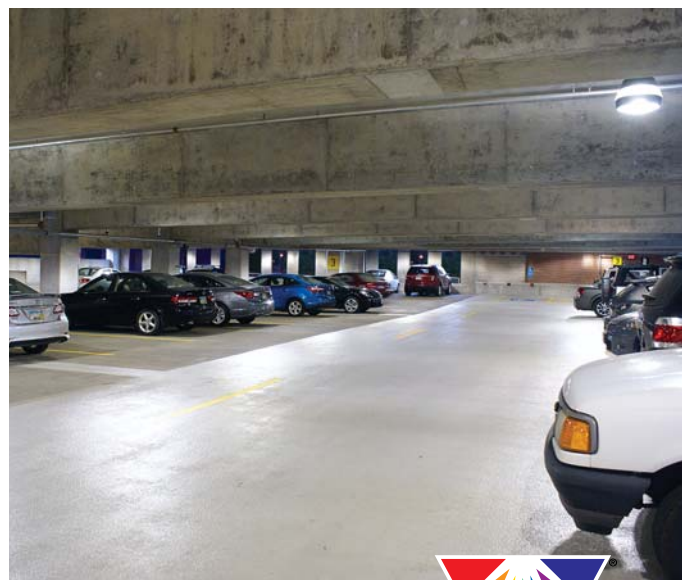
Exceeding LED performance and value, Venture Lighting's SPL extended life lamp series provided unequaled benefits. This unique metal halide exterior lighting and parking deck design added the perfect sparkle to the new hub of Kent.

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- Rick Quinlan

of EPIC Engineering Group, LLC



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