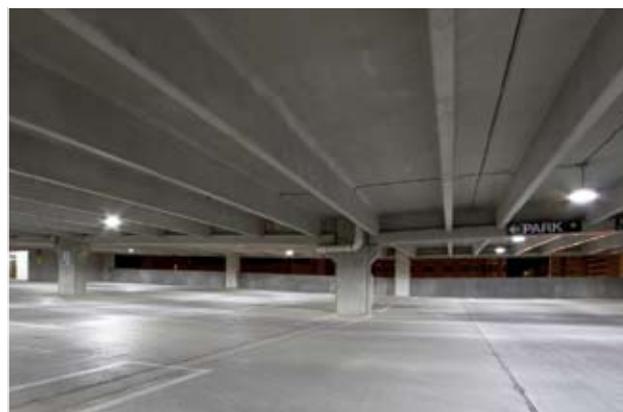
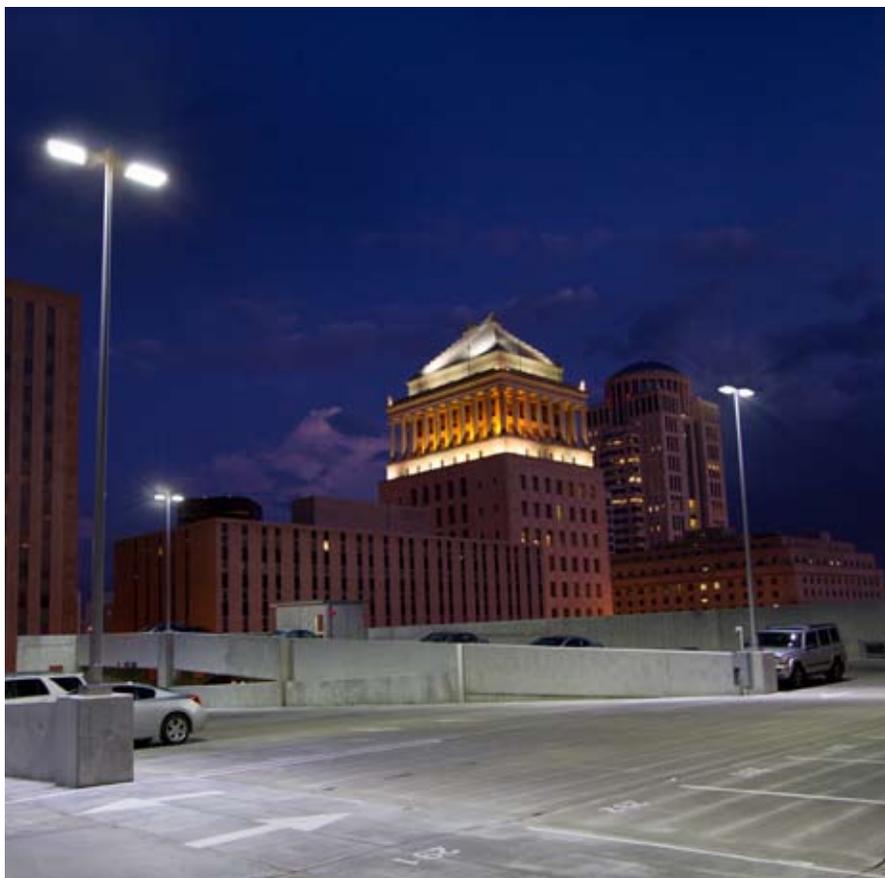


Case Study



Park Pacific Parking Garage, St. Louis, MO

Downtown St. Louis is bustling with activity at Park Pacific. This project includes the renovation of the historical Missouri Pacific building plus a new seven-story structure to house office and retail space. One key to this sprawling 750,000 square foot redevelopment's future success is a 7-story parking garage illuminated with LSI's high performance LED lighting.

The parking structure was a contractor-driven design and build project. The original lighting plan was a traditional HID package; the perceived increase in initial cost of a LED lighting system precluded it from being considered initially. During a meeting, parties learned that the local utility had a new construction program that assists owners in offsetting the higher initial cost of a system that could lower energy usage.

With this information, a redesign using LSI's LED parking garage and area light fixtures was evaluated. Funding amounts for the program are based on an energy reduction calculation – 10% below the baseline of 0.3 watts per square foot as defined in ASHRE 90.1 2001 or .27 watts/sq ft. The program provides some funding under a "Late Involvement Track" for redesign costs to incentivize owners to consider evolving technology after initial plans are finalized. New lighting layouts and energy calculations proved it was possible to achieve .07 watts per square foot utilizing LSI's LED lighting.

By using the utility incentives, the owner was able to offset the initial higher cost of LED fixtures. Beyond the annual savings of over \$14,000.00 in utility costs, substantial maintenance savings and improved lighting quality were also achieved.

Products Used: XPG (60 Watt LED, 5000K) used in entrance and parking areas in place of 175W PSMH
XPG3 (104 & 133 Watt LED, 5000K) used at entrances in place of 400W PSMV
XAM3 (184 Watt FT LED 5000K) used on rooftop parking lot in place of 450W PSMH

Results: Excellent lighting performance. Used 10 less LED fixtures than HID design.
Tremendous energy savings as compared to traditional HID light sources (.07 watts per square foot).
71% annual energy and maintenance savings
Utility support program enabled this at no addition cost to the owner!



Seeing is Believing



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