

# Case Study



## Courtyard by Marriott – Covington, KY

The General Manager of Marriott was referred to LSI because of the previous turnkey LED Marriott lighting upgrades that had been successful. His key desire was to improve the quality and safety of lighting for his patrons with the added value of reducing energy and have LSI offer a complete turnkey project. The garage drive lanes improved threefold in foot-candle measurements as well as the stairwell fixtures greatly improving the safety of the garage. The improved color rendering upgrading from high pressure sodium to LED was a dramatic improvement in light quality as well as improving the overall perception of the site.

*1st year Energy & Maintenance Savings \$19,419.99*

*5th year Energy & Maintenance Savings \$97,099.95*



**Products Used:** LED XLPG (48 fixtures in Cool White, VHO)  
LED EG3 (27 fixtures in Cool White, HO)  
LED XGB3 128 (6 fixtures in 450ma, FT Reflector)

**Results:** Dramatically improved lighting performance  
Tremendous energy savings as compared to traditional  
ROI 1.39 years (including installation)  
System KW reduction 11.11

**Existing canopy fixtures:**

200 watt HPS converted to XLPG 89 watt 56% energy savings

**Existing stairwell fixtures**

200 watt HPS converted to EG3-4 57 watt 72% energy savings

**Existing wall packs:**

200 watt HPS converted to EG3-4 57 watt 72% energy savings

**Existing top deck:**

460 watt HPS converted to XGB3-128 140 watt 70% energy savings