

# Case Study



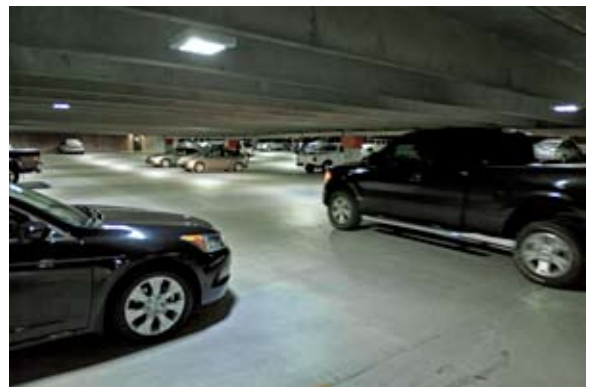
## Chattanooga Area Regional Transportation Authority (CARTA), Chattanooga, TN

In an effort to save energy and to reduce its greenhouse gas emissions, CARTA upgraded the existing high pressure and metal halide fixtures in 3 garages. They elected to use LSI Industries' LED parking garage (XPG HL) and high bay (XHB3) fixtures for the interior lights and LSI's XAM3 fixtures to light the rooftop parking deck in one facility. CARTA was awarded a \$650,000 grant from the Tigger Program to fund the LED upgrade.

The new LED lighting dramatically improved the general lighting of the facilities by delivering a clean, white light with nice uniform coverage of the spaces. The lighting delivered better 'seeability' and a sense of security for employees and customers. Further, with the LED system CARTA's energy and maintenance costs were dramatically reduced.

**Products Used:** XPG HL (79 Watt LED, 5000K)  
XHB3 (179 Watt LED, 350mA & 450mA, 5000K)  
XAM3 (184 Watt LED, 450mA, 5800 K)

**Results:** Reduced installation costs due to the fixtures' easy, quick installation  
57% annually energy savings over the previous HPS system  
Approximately 61% annual combined energy and maintenance savings  
Factoring in the TIGGER grant, CARTA will enjoy ROI of less than 2 years.



Seeing is Believing