

BUSINESS CASE STUDY



AHL HOCKEY ARENA

WAR MEMORIAL SYRACUSE, NY

PROJECT SUMMARY

EXISTING SYSTEM:	1000W Metal Halide
SOLUTION (FIXTURE):	Arena 600
ENERGY SAVINGS:	87%
Foot Candles Before:	105 fc
Foot Candles After:	204 fc



VENUE

The **Syracuse War Memorial** facility seats 7,000 fans for multiple attractions and is the home venue for the Syracuse Crunch hockey team, which is the AHL affiliate for the Tampa Bay Lightning.

CHALLENGE

Energy and maintenance costs were high and the metal halide system would lose 40 percent of light output over 18 month periods, producing inconsistent levels of light and poor uniformity.

SCOPE

Since no LED solution existed on the market that could replace a 1000W metal halide light, Ephesus worked with Onondaga County and the Syracuse Crunch team to develop a single streamlined LED fixture that replaces the 1,000W metal halide light. The facility became the first arena in the country to install LED lighting.

SOLUTION

147 Ephesus Arena LED fixtures were installed over the arena bowl. The new LED lights were laser focused to accomplish maximum consistency and light uniformity. The simple plug and play of the Ephesus solution meant minimal installation time and no costly rewiring. In 2013 the Ephesus Black Box Sports Elite wireless control system was added and integrated into the system to improve operational use for scene management and enhanced fan experience with light performance to music and other special effects.

RESULTS

Estimated energy consumption was reduced by 85%, and an average of 217 fc was generated on the playing surface, exceeding ice hockey¹ and HDTV broadcasting standards. The Ephesus LEDs eliminated shadows and dark spots on the playing surface for improved player performance and fan visibility. Significant savings in energy from reduced BTU requirements for cooling the ice due to significant reduction in ambient heat from the LED fixtures. Additionally the quality of ice improved as a result of less heat output from the new lights.

TESTIMONIAL

“The product is nothing short of sensational - it's given our fans a whole new experience and it's given our players better vision on the ice. There's no question.”— *Howard Dolgon, Owner, Syracuse Crunch*

¹ IESNA RP-6-01 Sportslighting Illumination Recommendations

