



SustainableLEDesign™

Generation Series LED

Wyandotte, Michigan Case Study



CASE STUDY: DOWNRIVER COUNCIL OF THE ARTS

LIGHTING UPGRADE RESULTS IN BETTER LIGHT QUALITY WITH SIGNIFICANT ENERGY AND MAINTENANCE SAVINGS.

The Downriver Council for the Arts is a regional arts organization and public gallery serving the southern metropolitan Detroit area. In March 2010, the organization moved into its new home in the City of Wyandotte, the former Masonic Temple renovated by the City the previous year, including new LED street and walkway lighting.

The existing street lighting consisted of eighteen 400W high pressure sodium cobrahead fixtures mounted on woodend poles to provide illumination onto the streets below. The City replaced these fixtures with Cooper Lighting's Streetworks Generation LED decorative post top luminaires. These fixtures provide lighting scaled to the pedestrian, not the street, while helping to showcase the restoration of the building with their decorative appearance. What's more, the new fixtures provide required light levels for 25-35% less energy.

"We have been nothing but very pleased with the lighting," says Jerry Kupser, superintendent of T&D for Wyandotte Municipal Services. "Comments from the public have been very supportive and happy. This includes local businesses in the adjoining area. The new lighting has also resulted in the removal of security lighting that was no longer needed."

Kupser points out that the Streetworks Generation LED decorative post top luminaire was chosen primarily due to its superior quality, availability and cost.

"The type of globe, correct color of light, and correct fixture exceeded the quality target that was set by us," Kupser adds. "The product was easy to plan and work with. The fixtures also met the electrical voltages from transformers that were already in place in the area, which meant that there wasn't a need to add additional transformers. We also appreciate that Cooper Lighting stands behind its product, and the support the sales staff provided."

PROJECT CREDITS

Project: Wyandotte Arts Center | Client: City of Wyandotte | Electrical Engineer: Charlene Hudson, City of Wyandotte | Lighting Design: Jerry Kupser and Rod Lesko, City of Wyandotte
Installer: Wyandotte Municipal Services Electrical Department | Agent: CSI Utility Sales | Supplier: Power Line Supply



GENERATION SERIES LUMINAIRE KEY FEATURES

AESTHETICS AND PERFORMANCE FLEXIBILITY: The Generation Series offers traditional styling coupled with modern technology and photometric performance. The modular approach creates boundless options for community identity while incorporating metal halide, high pressure sodium and LED source options.

ENERGY REDUCTION: The Generation Series LED luminaire consumes 58W when operating at full light output. The performance of the LED version makes it suitable to replace a 70W high pressure sodium or 100W metal halide, saving 33-50% on energy. LEDs also have distinct advantages in light control. The Generation Series LED luminaire can be bi-level switched for 50% energy savings during curfew hours. Unique to Generation Series LED design, the luminaire can also be switched to a street side/house side version allowing the house side of the luminaire to be turned off during curfew hours.

EASY MAINTENANCE: Ease of maintenance was a leading design consideration for the Generation Series of decorative post top luminaires. Without considering routine maintenance, by treating it secondary to the form, a fixture can become a liability instead of an asset.

WHITE LIGHT AND UNIFORMITY OF ILLUMINATION: The light generated from an LED source can be different than traditional sources. First, the light is always white [higher CRI and color temperature than high pressure sodium or metal halide] meaning that visually the illumination is oftentimes considered more pleasing to the eye. Also, uniformity is frequently improved reducing the "hot spots" associated with HID solutions. As a result, the improved night time environment can encourage pedestrian traffic, support the use of public transit and provide an enhanced feeling of safety and security.



- ✓ High Performance Optical System
- ✓ Energy Savings
- ✓ 5000K Color Temperature
- ✓ 40°C Temperature Rating
- ✓ 5-Year Warranty

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