



I-35W St. Anthony's Falls Bridge, Minneapolis, MN

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*– Tom Jenkins,
Figg Engineering Group's
Bridge Construction Quality
Assurance Engineer*



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THE EDGE area luminaires with 240 LEDs, Type III medium and Type V medium optics, 350mA, Color Temperature: 6000K

BetaLED products replaced 250-watt high-pressure sodium fixtures

Benefits:

- THE EDGE luminaires deliver more than five times the life of traditional 250-watt high-pressure sodium (HPS) lamps supporting the sustainability goals of the bridge design. By eliminating maintenance associated from relamping or replacement, costs are significantly reduced.
- Mn/DOT expects an annual energy savings of approximately 15 percent compared to the 250-watt HPS fixtures previously installed.
- Patented NanoOptic™ product technology within each BetaLED fixture layers light efficiently into target areas dramatically improving visibility and increasing traffic safety.

Sustainability and Safety

BetaLED fixtures deliver sustainability, low operating costs and excellent visibility

Shortly after the tragic collapse of the I-35W Bridge in August 2007, Figg Engineering Group began designing a new structure with the highest safety standards and state-of-the-art technology.

When exploring lighting options for the bridge deck, Figg Engineering wanted an environmental solution and BetaLED was the natural choice.

“We wanted to use state-of-the-art lighting for the I-35W project and consider BetaLED to be a company that’s in the forefront,” said Tom Jenkins, Figg Engineering Group’s Bridge Construction Quality Assurance Engineer. “We can actually see from one side of the deck to the other and that’s quite a long distance. Motorists now have an unobstructed view of the roadway and are very receptive to the performance of the fixtures.”

BetaLED fixtures are mounted in the center of the median along the deck and Mn/DOT is looking forward to a reduction in maintenance costs and an annual energy savings of 15 percent by installing the luminaires.

The new 10 lane I-35W Bridge has a rated life span of 100 years and features the latest safety and environmental technology, such as “Smart Bridge,” a built-in sensor system that monitors structural behavior, runs the anti-icing system and operates the signals and message signs. Other features include high-performance concrete and multiple levels of steel reinforcing bars to ensure structural soundness.

The I-35W Bridge provides direct access to downtown Minneapolis and reopened Sept. 16, more than three months ahead of schedule.

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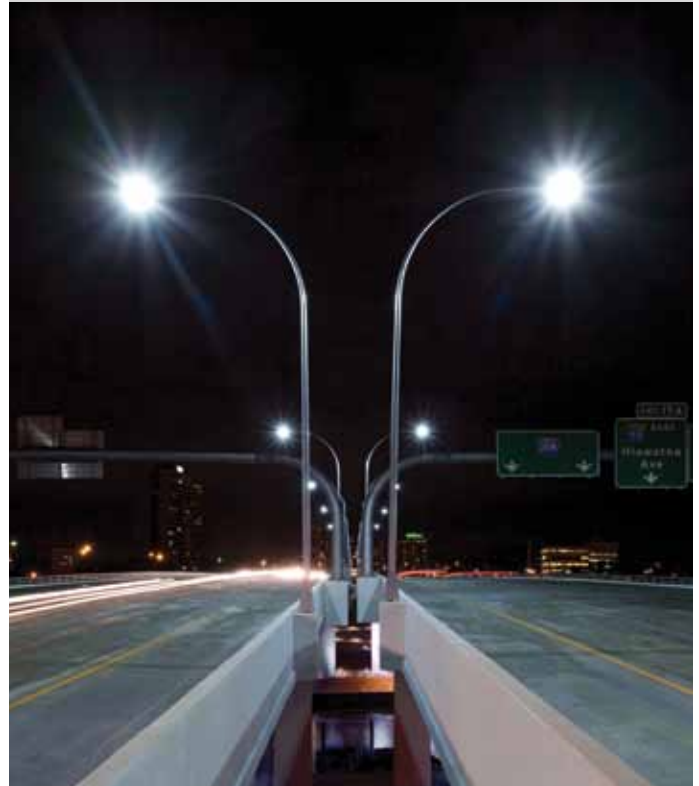


Photo Credit: FIGG