



Parking - New Construction

Johnson Controls Incorporated

Glendale, WI

Johnson Controls aims to be the World's Most Sustainable Campus with the help of Cree Edge™ luminaires.

- 45 percent energy savings compared to metal halide fixtures
- Two-and-a-half foot candle average with an even 5:1 spacing
- Significant improvements in uniformity





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James Haug, P.E., *Principal,*
Leedy & Petzold

SUSTAINABLE CAMPUS MAKEOVER INCLUDES CREE

OPPORTUNITY

Aiming to be the World's Most Sustainable Campus, Johnson Controls Incorporated (JCI) in Glendale, Wisconsin earned a LEED Platinum rating from the U.S. Green Building Council on four buildings – the largest number of buildings on one campus to achieve platinum. JCI made a \$73 million transformation at its 33-acre campus including installing 285 energy-saving Cree Edge™ luminaires.

SOLUTION

Cree Edge™ parking, security and area luminaires were installed in a new parking structure, resurfaced parking lots and new campus streets. The four-level, 419-stall parking structure is illuminated with 134 pendant-mount luminaires. There are 42 parking structure luminaires on three floors and 16 poles with area lights on the upper deck.

Ward Komorowski, director of facilities and building services for JCI, oversaw the renovation. He hired Leedy and Petzold Associates LLC, an electrical engineering design firm, to plan sustainable lighting.

Leedy & Petzold designed the application to meet LEED requirements and City of Glendale lighting ordinances. Restrictions on light levels and mounting heights were considered. Principal James Haug, P.E., compared 175-watt metal halide fixtures to 118-watt Cree® area luminaires and calculated a 45 percent energy savings for the parking lot lights alone.

“We looked at other LED solutions but were convinced the Cree® luminaires would offer a superior solution because of a thermal design that handles the heat better and a more advanced optical design,” said Haug. “We are confident that the Cree® solution will provide worry-free operation for the next 12 plus years. The visibility is as good as or better than the metal halide provides.”

BENEFITS

Haug is pleased with the lighting design that achieves safe light levels and energy efficiency. While meeting a height restriction in accordance with a local ordinance, superior lighting control yielded impressive performance. “Installing Cree Edge™ area luminaires at a 15-foot mounting height provides horizontal footcandles that are as good as the vertical footcandles – a nice scale that is just right for uniformly lighting the space according to code. Everything is evenly lit, not overly lit, and you just don't get that from metal halide lights.”

Learn more at: www.cree.com/lighting | info@cree.com | 800.236.6800



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