

BetaLED™ Project Brief Overview

Cub Foods, St. Paul, Minnesota



PROJECT SUMMARY

End User:	Cub Foods (brand of SuperValu), St. Paul, Minnesota
Application:	Area and security lighting for supermarket parking lot
Product:	<p>56 THE EDGE™ Area luminaires, eight LED light bar, Type V optics 18 THE EDGE™ Security wall pack luminaires, five light bar, Type III optics 10 THE EDGE™ Area luminaires, 12 light bar, Type II optics with backlight shield 7 THE EDGE™ Area luminaires, eight light bar, Type II optics with backlight shield</p> <p>All Type II and Type V Area luminaires are mounted to 4" x 27' square poles with roughly 3' of concrete base exposed above grade to protect the poles and to position the fixtures nearly 30' above finished grade (AFG). The Type III Security wall pack luminaires are mounted directly to the building at approximately 18' AFG.</p>
Benefits:	<p>THE EDGE™ fixtures provide IESNA Full Cutoff controlled light that complies with Dark Sky and local regulations on light trespass. Lighting provides excellent visibility and sense of security for customers.</p> <p>BetaLED™ fixtures contributed to Leadership in Energy and Environmental Design (LEED) Gold 2.2 Certification by earning credits for significant energy savings under the category of Optimization of Energy Performance.</p> <p>The lighting layout provides the following illuminance statistics for the entire parking area including an adjacent mini strip outlet (minus the loading docks): 5.46 avg. FC, 8.5 max., .9 min.</p> <p>The uniformity ratios for the same area are quite impressive as well at 6:1 avg:min and 9.5:1 max:min. All of this is done with a total site lighting power density (LPD) of .085 watts/sq. ft. LEED 2.2 allows no more than 80% of the ASHRAE/IESNA 90.1-2004 outdoor parking lot and drives standard of .15 watts/sq. ft. LPD. This site comes in at 57% of the ASHRAE allowance, well below the LEED requirement.</p>

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RuudLED™ and SuperValu's Cub Foods Go For Gold

First supermarket to be LEED certified in the US



The new 62,900-square-foot Cub Foods in St. Paul, Minn. is close to becoming the first LEED Certified grocery store in the US. By installing THE EDGE™ luminaires in the parking lot, SuperValu's Cub Foods not only earned LEED credits under the category of Optimization of Energy Performance but became the first commercial parking lot in Minnesota to be illuminated using LED lights.

“Our goal is to achieve LEED Gold 2.2 Certification and BetaLED™ products contributed to earning credits by presenting significant energy savings,” said Scott Reinke, senior project manager for SuperValu Real Estate and Store Development.

In addition to energy savings, BetaLED™ fixtures also meet the City's strict regulations on light pollution. “While achieving the City's light trespass requirements, BetaLED™ provides desired light levels which help improve visibility and security for our customers,” said Reinke.

The store also features 44 skylights that illuminate 75 percent of regularly occupied spaces using a solar-powered GPS system that tracks and redirects sunlight as needed; and a landscape irrigation system that uses 50 percent less water than typical systems.

As part of their corporate green stewardship, 75 percent of the building construction waste will be recycled and turned into other useful materials.

The Cub Foods LEED Certified store is a significant milestone that sets the standard for all new construction projects and lessens the impact on our environment.



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