



Auto Dealership - New Construction

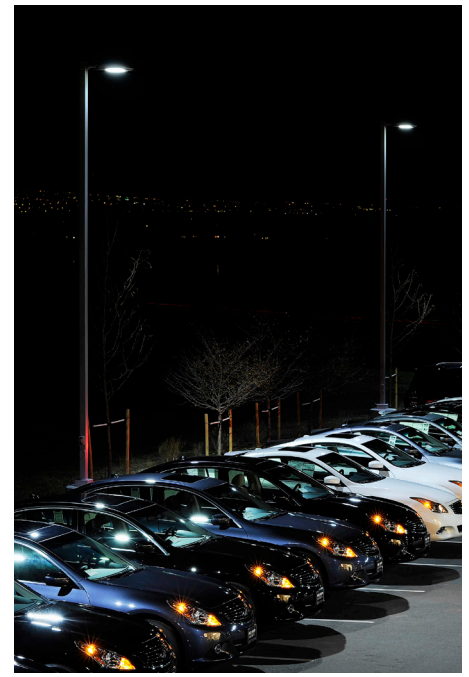
Mike Ward Infiniti

Highlands Ranch, CO

Automotive dealership delivers impressive return on investment and achieves notable performance and efficiency firsts with help from Cree® LED exterior luminaires.

- Anticipated reduced energy use of 49%
- Anticipated annual maintenance savings of \$6,000
- Contributed 17% to overall project savings





LED PERFORMANCE AND AESTHETICS ENHANCE DISTINCTIVE DEALERSHIP.

The new Mike Ward Infiniti dealership located near Denver is less than a year old and is already delivering the return on investment owner Mike Ward was looking for. In addition to making the vehicles and grounds look more clean and crisp, his investment is netting a payback in energy and maintenance savings and accomplishing performance and efficiency goals.

Mike Ward Infiniti will soon be the first automotive dealership in the state of Colorado to achieve LEED silver certification from the U.S. Green Building Council (USGBC), a rating that marks excellence in a sustainable, energy-saving building, and made possible for the dealership in part by installing 75 LED luminaires from Cree.

An initial lighting design specified metal halide fixtures but Ward quickly chose to convert the plan to THE EDGE® area, security and pathway LED luminaires. By making the change and using the same number of poles at the same height and spacing, Ward was able to save time and money. The decision will bring an anticipated 49-percent reduction in energy use, saving approximately \$2,000 each year, and another \$6,000 savings anticipated in reduced maintenance of THE EDGE® LED luminaires over the proposed metal halide technology.

The installation was a first for Douglas County with results that impressed county engineer Shary Lindeman. Douglas County requires all commercial properties to install downlight fixtures with full cut off not exceeding ten footcandles of illumination in order to eliminate undesired light spill. Mike Ward Infiniti was the first commercial property to use LED instead of traditional light sources, resulting in a performance first for the dealership and the best illumination results the department has ever tested. According to Lindeman, the overall result was very even distribution that measured below half of the requirement. The highest reading was 5.1 footcandles with most in the three to five footcandle range.

Ward believes he'll see an overall payback on his sustainable facility in just two to three years, saving 40 to 50 percent in overall energy use. The installation of THE EDGE® LED luminaires from Cree will contribute approximately 17 percent to the payback in an anticipated six-year period on the total project's energy reductions.

But there's more than just energy and cost savings gained. Ward installed the LED lighting to showcase automobiles in the lot with uniform illumination that does not spill off of the property and provides a safe, welcoming atmosphere.

“ The driving reason to use the LED lighting was energy and cost savings that yield a return on investment. But we've also enjoyed the comfortable illumination the lighting provides in our retail space. ”

Mike Ward
Owner, Mike Ward Infiniti

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