

LED Exterior Retrofit Brightens College Campus

HA

Location: Carlsbad, NM
Details: New Mexico State University

“The Kenall Sentinall LED lights installed in our covered walkways and soffits were a dramatic improvement compared to the lighting that was replaced. We experience a crisp, clean, bright light that eliminates the dark corners.”

– Brian Stephens
Manager, Facility Services



Project Summary

Challenge: Update dimly lit campus to eliminate dark corners on walkways and lessen maintenance time and cost.

Solution: LED retrofit of outdated HPS luminaires under canopies and soffits that connect buildings throughout the campus.

Benefit: Safer campus with brighter, whiter luminaires and stress reduction for the facility manager who maintained the previous lighting.

Sentinall™ Luminaires Brighten College Campus and Enhances Student Safety

New Mexico State University, Carlsbad, NM



New Mexico State University (NMSU) is a land-grant university with four community colleges, 13 Agricultural Science Centers, and 33 Cooperative Extension offices around the state.

NMSU's Office of Sustainability is responsible for developing policies and guidelines for protecting natural resources, reducing the university's ecological footprint and ensuring accountability for green building and low impact development.

One component of their program is the Energy Reduction Campaign, an awareness and behavioral modification campaign with a goal of reducing energy consumption on campus as a way to reduce energy costs and help the environment.

NMSU's Facilities and Services team has been working on energy reduction for a number of years through numerous sustainable tactics, which includes retrofitting dated lighting fixtures with energy-efficient LED luminaires.

NMSU Carlsbad is a two-year branch community college of New Mexico State University and is the oldest community college in New Mexico.

Brian Stephens, NMSU Carlsbad manager, facility services, put in a request for repair funds to retrofit luminaires on the main campus, because the walkways had dark corners and the light produced by the HPS luminaires was orange and dull.

The Carlsbad campus is in a remote location—approximately 200 miles from Las Cruces—so accessing a bucket truck and maintenance team to replace incumbent high pressure sodium (HPS) fixtures was a time-consuming and expensive challenge. And although students and faculty would complain about burnt-out lights Stephens did not have the resources to quickly fix them.

Funding was recently secured and as part of the university's policy to only retrofit with LED luminaires, 41 Sentinall LED luminaires were installed—under canopies and soffits that connect buildings throughout the campus—to replace dated HPS fixtures.

Kenall's Sentinall LEDs Feature:

- Durable construction, including cold rolled steel housings
- UV-stabilized, injection molded, impact resistant polycarbonate lens
- Rugged, one-piece wraparound lens/housing
- Peace of Mind Guarantee™

"The NSMU Carlsbad campus specifically wanted LED exterior lighting for three reasons: to improve safety with better outdoor light quality, to reduce the need for maintenance due to the long life of LED compared to the less efficient options, and to use less energy."

— Brian Stephens,
Manager, Facility Services



Kenall's Sentinall LED retrofit make the NMSU campus brighter and safer by eliminating dark corners on covered walkways.

NMSU Carlsbad Benefits:

- Improved lighting performance
- Uniform targeted illumination and cost savings from reduced maintenance and relamping
- Improved nighttime visibility
- Enhanced campus safety
- After two years, no lighting failures to report

In fact, in one of the walkways the new LED luminaires provide such bright, even light that the university only replaced every other fixture.

Funding Sheds Light on Project

The funding source for the lighting project was secured by then Representative John Heaton for the NMSU Carlsbad campus. This was money that the campus was not expecting, but decided to use for the campus lighting retrofit. The funds were used to improve exterior lighting on the three oldest buildings.

The time and money saved on relamping can now be redirected to other campus needs.

The LED lighting solution provides NMSU Carlsbad with a highly efficient exterior lighting system that works toward its safety and long-term sustainability goals.

For more information, please visit us on the web at www.kenall.com



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