

Campus Lighting Applications

Comply with energy codes and utilize advanced energy-saving features



NorthStar Outdoor Lighting Control System

WIRELESS, CODE-COMPLIANT CONTROL FOR SITE LIGHTING APPLICATIONS

The Leviton NorthStar Outdoor Lighting Control System is specifically designed to meet the needs of outdoor and partially outdoor facilities, including the unique safety and code compliance requirements for an entire campus, including site lighting, parking lots, common areas, walkways and sports fields/courts. NorthStar Wireless system technology connected via a robust, self-healing mesh network makes installation and system management simple.

ASHRAE 90.1:

- Exterior lighting must be controlled by a photocell to turn lighting OFF when sufficient lighting is available
- Building facade lighting must be controlled based on opening/closing time

Title 24:

- All outdoor lighting must be controlled with a photocell or astronomical time clock
- Lighting that is >24 ft from the ground must be controlled to automatically reduce lighting by 40-80% when the area is vacant, and auto-ON when occupied
- Lights must be turned OFF during daylight hours via a photocontrol and an astronomical time switch OR astronomical time switch control
- Outdoor lighting no longer must be separately circuited from other lighting, but it must remain independently controlled via automatic scheduling

IECC:

- Exterior lighting designated for dusk to dawn operation shall be controlled by an astronomical time clock or photocell
- Lighting not designated for dusk to dawn operation shall be controlled by either a combination of a photocell and time switch or an astronomical time clock

PROBLEM

High school campus requires flexibility to address outdoor lighting for buildings and sports fields while meeting code requirements and delivering energy savings.

- Parking lots are utilized during both day and nighttime hours by students and school employees
- Lighting controls must accommodate a variety of open areas and light fixtures
- Must meet IECC, ASHRAE 90.1 and Title 24 requirements

SOLUTION

NorthStar Outdoor Lighting Controls manage parking lot, sports fields and building lighting for energy savings and code compliance.

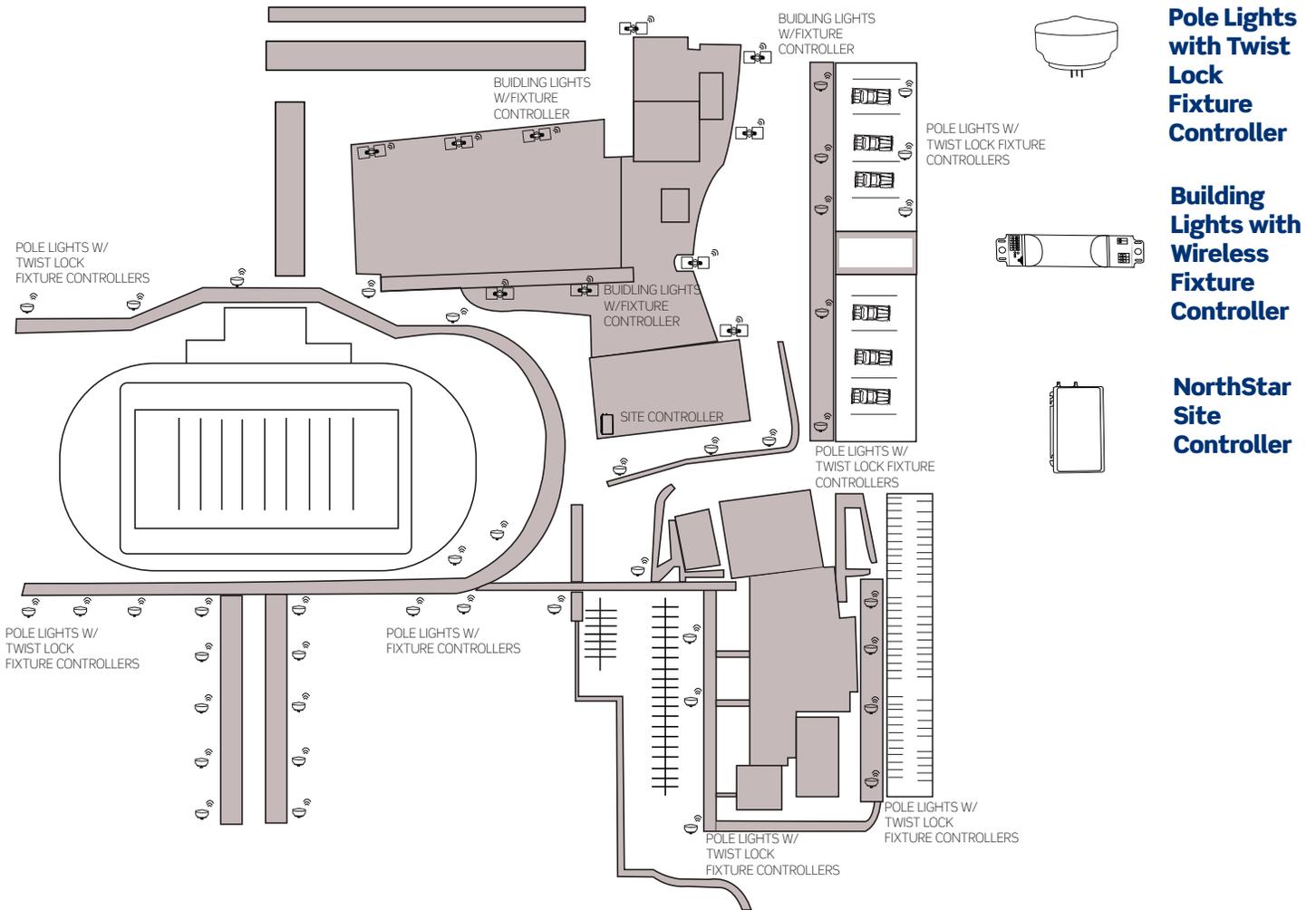
- Integrated photocell and time clock controls measure ambient light in the space, and also ensure essential lighting remains on during nighttime hours and off during daylight times
- Automates the system using a combination of scheduled behaviors to accommodate multiple sites
- Meets IECC, ASHRAE 90.1 and Title 24 requirements for parking lot control

Leviton Manufacturing Co., Inc. Energy Management, Controls and Automation

20497 SW Teton Avenue, Tualatin, OR 97062 **tech line** 800-959-6004 **fax** 503-404-5594

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NORTHSTAR CAMPUS LIGHTING CONTROL



WHAT YOU WILL NEED

NORTHSTAR PARKING LOT CONTROL		QTY.
	Wireless Metering Twist Lock Fixture Controller OCF00-1RN <ul style="list-style-type: none"> Integrated photocell monitors natural light levels for switching and dimming control 	40
	Wireless Fixture Controller OCF01-1RT, OCF01-10T <ul style="list-style-type: none"> Wirelessly controls lighting using a time clock, dusk-to-dawn photocell or via customized lighting control sequences 	14
	Site Controller OC00G-00G with OC00G-ENC <ul style="list-style-type: none"> Serves as the central hub for the NorthStar Outdoor Lighting Control System NOTE: A site controller must be installed within range of at least one of the nodes 	1
	Antennas and Cables (Optional) OCANT-XXX, OCAEX-XXX <ul style="list-style-type: none"> Used to communicate between NorthStar devices 	Varies

Disclaimer: This document is for informational purposes only. Each project will have its own specific requirements for satisfying IECC, ASHRAE 90.1 and Title 24 code compliance based on a variety of factors. Other exceptions or details may apply. Review the code for specific requirements and/or consult with a professional advisor. Leviton Mfg. Co., Inc. is not responsible for any loss resulting from the use of any information found in this document. Solutions are subject to change without notice. For additional assistance, contact your local Leviton representative.

Leviton Manufacturing Co., Inc. Energy Management, Controls and Automation

20497 SW Teton Avenue, Tualatin, OR 97062 tel 800-736-6682 fax 503-404-5594

tech line (6:00AM-4:00PM PT Monday-Friday) 800-954-6004

Visit our website at: www.leviton.com/northstar

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