



Case Study | Butte Community College

Gymnasium

aleob^{blue}™

DETAILS

Project

Butte Community College

Location

Oroville, CA

Project Size

50 luminaires with sensors
4 unique scenes
5 zones

Project Scope

Interior

Lighting Manufacturers

Aleo Lighting

Existing Lighting

T5HO High Bays and Metal Halide High Bays

Facility

College Gymnasium (Televised)

Products (fixtures)

XLB (SR/RC) Linear High Bays

Products (AleoBlue)

AleoBlue High Bay Sensors

Controls Strategies

Scene Control
Wireless Zoning / Grouping
Occupancy Sensing
Manual Control / Dimming
Luminaire Level Lighting Control
High-End Trim

Company Background

Butte College serves approximately 15,000 students a year and is an accredited community college located just 75 miles north of Sacramento. The College is a national leader for community colleges in sustainability due to student engagement both at the college and in the community, infusion of sustainability into the curriculum, workforce development focused on green jobs, LEED certified buildings, sustainable land use management, renewable energy and energy efficiency.

The Challenge

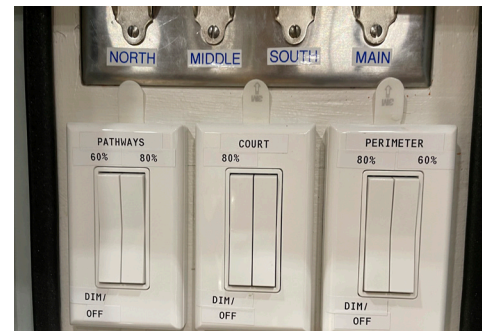
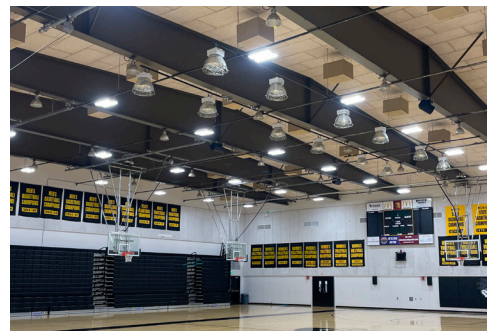
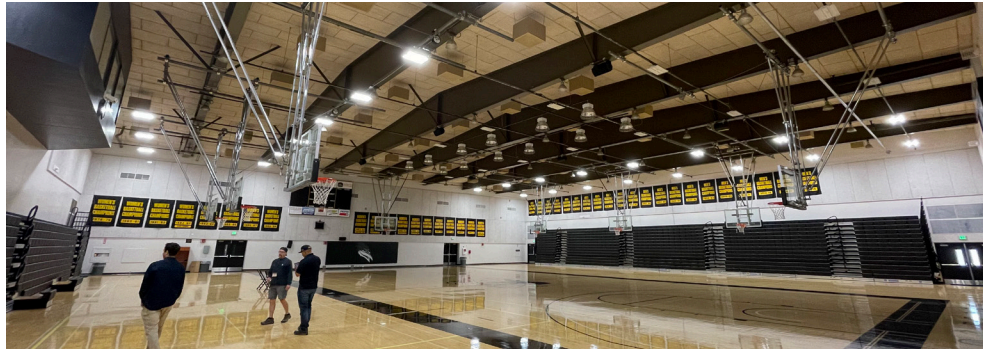
The end-user was seeking a lighting control system that could meet a complex sequence of operation to meet their demands of a multi-use gymnasium that hosts various sporting events, including televised games. The desired outcome was to achieve energy savings, lower maintenance cost, and suit the various needs of different occupants across different areas of the gym. The ideal control system would enhance their control over the lighting and improve the system's versatility while improving occupant comfort and performance.

PROJECT HIGHLIGHTS

- **Achieved complex sequence of operations** through wireless zoning and scene control
- **Over 70% energy savings**
- **Utilized plug and play Bluetooth Occupancy Sensors** installed after luminaire installation



AleoBlue | Wireless Lighting Controls



Our key highlight is achieving
**Complex Sequence
of Operation**
with different
Zones and Scenes.

All was achieved
Wirelessly.

**Plug and Play
Sensors** were able to be
installed after fixture
installation.

The Goal

The goal was to be able to meet the end user's desired sequence of operation and control strategy wirelessly. Implementing a combination of capabilities within AleoBlue's Bluetooth Mesh wireless network lighting control system would allow the customer to achieve their goals without needing any auxiliary control equipment or system.

The Solution

Existing fluorescent T5HO and Metal Halide high bays were replaced by Aleo's latest XLB linear high bay with plug and play sensor receptacles, offering significant energy and maintenance savings. AleoBlue PIR occupancy sensors with daylight harvesting were delivered after the high bays. 3 different zones in the gymnasium were established: perimeter, pathway, and center court. Each zone needed to have unique light levels that are manually triggered; we achieved this through zone linking, multiple kinetically powered double rocker scene selectors, and establishing multiple scenes.



aleoBlue Lighting Controls

Luminaire Level Lighting Controls
XLB, SPIR-OSDL, AB-BTT

Manual Control
Scene Control and Double Rocker
EnOcean Dimmer

Occupancy Sensing
Gymnasium

