



Case Study | Los Angeles County Building

Government Office Building



DETAILS

Project

Los Angeles County - Registrar-Recorder

Location

Norwalk, CA (Los Angeles County)

Project Size

8 floors | 350,000 sq. ft. | 3,800 luminaires with controls | 450 wireless dimmers | 16 gateways | 22 areas | 600 zones

Project Scope

Interior

Lighting Manufacturers

Aleo Lighting

Existing Lighting

T8 Fluorescent Troffers

Facility

Open Office, Private Office, Corridors, Hallways, Restrooms, Meeting Rooms, Lobby

Products (fixtures)

LTR Troffer Retrofit Kits

Products (AleoBlue)

AleoBlue Occupancy Sensors w/ Daylight
AleoBlue Control Nodes

Controls Strategies

- High-End Trim
- Occupancy Sensing
- Daylight Harvesting
- Manual Control / Dimming
- Luminaire Level Lighting Control
- Zoning / Grouping

Company Background

The Los Angeles County Registrar-Recorder's office is responsible for registering and maintaining voter files, conduct of federal, state and local elections and recording of birth, death, marriage and real estate documents for all Los Angeles County. Major functions performed by the County Clerk at this office include marriage license issuance, the performance of civil marriage ceremonies, fictitious business name filings and indexing, qualification and registration of notaries, as well as miscellaneous statutory issuance of oaths and filings.

The Challenge

The engineering firm and end user were seeking a value-engineered lighting and controls solution to meet the engineer's specification, deliver deep energy savings, and alleviate budgetary pressures. Code compliance and prior difficulties with conglomerate control systems were also challenges to this project.

PROJECT HIGHLIGHTS

- **Large scale deployment of Bluetooth Mesh technology** over 8 floors, 350,000 sq. ft., and over 4,000 devices
- **Massive energy savings** from conversion from fluorescent to LED, implementing advanced lighting controls, and utilizing dimming and daylight harvesting
- **Reducing project cost** for renovation while complying with energy code



AleoBlue | Wireless Lighting Controls



**Over
75%
Energy Savings**

The Goal

The goal was to lower the construction budget to meet project needs with an easy to use, contractor friendly control system. Fast and easy commissioning and start up would be a priority. The project required a full-featured lighting control system with the following capabilities: zoning, occupancy sensing, scheduling, high-end trim, and manual dimming.

The Solution

A full lighting package featuring AleoBlue wireless networked lighting controls significantly lowered construction costs and allowed for a quick controls startup process. Utilizing Bluetooth wireless technology to easily group luminaires and add wireless dimmers without running additional wires delivered significant labor savings. AleoBlue eliminated unnecessary control equipment, cut out complication, and dramatically reduced labor costs while delivering deep energy savings with LED and controls.



aleoBlue Lighting Controls

Luminaire Level Lighting Controls
LTR, LLS

Manual Control
Single and Double Rocker EnOcean Dimmer

High End Trim
80%

Occupancy Sensing
Lobby, Counter, Open Office, Corridors and Hallways

Daylight Harvesting
Daylight Zones

Zone Linking

