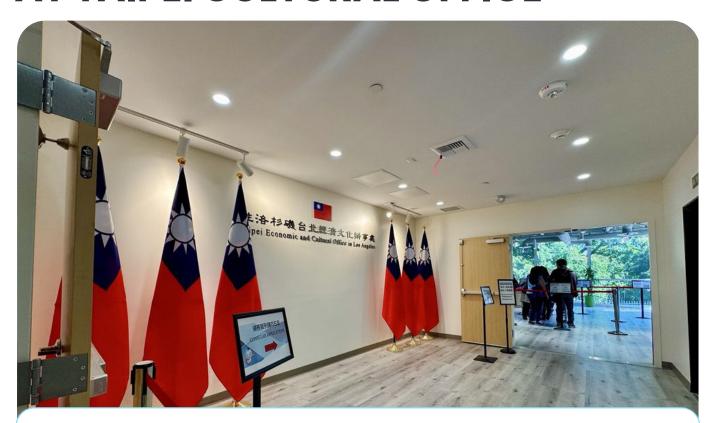


## CASE STUDY

# TITLE 24 READY: LIGHTING UPGRADE AT TAIPEI CULTURAL OFFICE



## Name of the project

Taipei Economic and Cultural Office

## Type of building

Government Office

## Location

Los Angeles, USA

## Partner

ERI ELECTRICAL

#### Requirement

- · Modern Wireless lighting control system
- · Centralized scheduling and monitoring
- · Occupancy-based automation
- · Easy user control
- Minimal infrastructure changes
- · Improve energy efficiency
- Ensure compliance with California Title 24 standards

#### **Key Outcomes**

- · Lower energy consumption
- · Simple, intuitive controls
- · Centralized system management
- Enhanced comfort and ambience
- · Scalable for future needs
- Achieved compliance with California Title 24 energy standards

#### **Devices**

- Radiar AF10
  2 channel AC powered 0-10V fixture controller
- Single channel AC powered 0-10V room controller PSC-WCM-450-BLE-WS
- LDCM Phase Dimming Control Module
- Gateway with RTC, Ethernet & Astronomical Clock
- 1 button mesh wall controller PSC-DM-WS-100-BLE-WS
- Smart 8 Button Panel WS-NA0-02-08W
- Cyrus AP PIR Motion & Light Sensor
- Cyrus AM Microwave Motion & Light Sensor

## **BACKGROUND**

The Taipei Economic and Cultural Office in Los Angeles is a prominent establishment responsible for promoting cultural and economic ties. To keep up with its mission of modernity and sustainability, the office decided to upgrade its lighting infrastructure. The goal was to adopt an intelligent system that not only saves energy but also provides intuitive control to its staff and visitors.

## **OBJECTIVE**

- Provide wireless lighting control with flexibility for different zones and offices.
- Achieve energy efficiency and operational simplicity.
- Ensure compliance with California Title 24 standards
- Ensure compatibility with modern devices and future expansions.
- Enable centralized monitoring and management of all lighting fixtures.

## **CHALLENGES**

Upgrading an existing government facility always comes with a few hurdles. One of the key challenges was integrating smart lighting controls without altering the building's structure. The team also had to ensure consistent wireless connectivity across multiple floors and varied room layouts. Choosing the right mix of devices that could handle both general and task lighting needs was another crucial factor. And above all, the solution had to preserve the clean, professional look of the space without visible wiring or bulky installations.





## **SOLUTION**

## Radiar AF10 - 2 channel AC powered 0-10V fixture controller

Radiar AF10 controllers were deployed across the facility to manage both intensity and color temperature of lighting. Their dual-channel 0-10V outputs allowed fine-tuned control for various spaces, enabling energy-efficient operation and creating comfortable ambiences tailored for office zones.

#### 1 button mesh wall controller - PSC-DM-WS-100-BLE-WS

These controllers enhanced localized lighting automation by enabling on-demand dimming and switching. Ideal for multi-use areas, they provided intuitive manual control while supporting automated schedules for better energy management.

#### Smart 8 Button Panel - WS-NA0-02-08W

The 8-button Bluetooth panel was configured to activate different lighting scenes for conference rooms and common areas. With a sleek design and wireless connectivity, it provided staff with easy control at their fingertips.

## **Enor E** - Gateway with RTC, Ethernet & Astronomical Clock

Enor E served as the heart of the system, connecting all devices to the Lumos Controls cloud. It enabled facility managers to schedule lighting, monitor usage, and make adjustments remotely through an intuitive interface.

## **LDCM** - Linear Dimming Control Module

Used alongside Radiar AF10, the LDCM ensured smooth and flicker-free phase dimming for decorative and linear lighting in sensitive spaces such as meeting rooms and corridors

## Single channel AC powered 0-10V room controller - PSC-WCM-450-BLE-WS

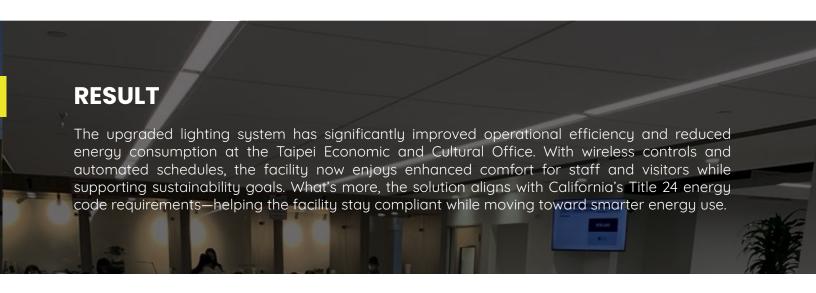
Ideal for smaller zones, this controller offered reliable on/off switching and dimming for individual rooms, contributing to the overall energy savings of the facility.

## Cyrus AP - PIR Motion & Light Sensor

Installed in offices and common areas, Cyrus AP sensors detected motion and daylight levels to automatically adjust lighting. This reduced energy wastage in unoccupied spaces while enhancing user comfort.

## **Cyrus AM** - Microwave Motion & Light Sensor

Cyrus AM sensors were deployed in areas like storage rooms and corridors where PIR sensors could face limitations. Their precise detection enabled reliable automation even in enclosed spaces.



**ABOUT OUR PARTNER ERI ELECTRICAL**  ERI Electrical, our official representative in Southern California, played a key role in planning and executing this project. Their technical expertise and on-ground coordination ensured smooth implementation and timely completion.

Region: Contact Person: Phone: Southern California 517 614 0452 Anne Murrell

## **ABOUT LUMOS CONTROLS**

Lumos Controls is a smart controls solution built on WiSilica's IoT platform, ARIXA.

It combines advanced lighting control devices, an intuitive app, and a powerful analytics suite to create a future-ready intelligent lighting network for smart enterprises. With Lumos Controls controllers, businesses can achieve customizable, energy-efficient illumination tailored to their needs.

The ecosystem features controllers, sensors, switches, gateways, mobile and web apps to set up basic to advanced smart controls. Lumos Controls allows you to decide what to achieve and how to grow and step into a sustainable future.

# Ready to create your intelligent space? Let's talk.





