

CASE STUDY

CDCLI – COMMUNITY DEVELOPMENT CORPORATION OF LONG ISLAND



PROJECT SUMMARY

Name of the project

Community Development Corporation of Long Island (CDCLI)

Type of Building

Office

Location

New York, US

The Requirement

- Automated lighting control with schedules and occupancy-based sensors.
- Energy savings through intelligent automation.
- Quick installation and user-friendly operation.
- Enhanced lighting for office spaces and parking areas

Devices




- Radiar AF10:
2-channel AC powered 0-10V fixture controller
- PSC-WCM-450-BLE-WS :
1 channel AC powered 0-10V room controller
- EDRPB:
Wireless Self-powered 4 Button Switch
- PSC-DM-I-WS-100-BLE-WS:
Wireless Motion Sensor Dimmer Wall Switch
- Cyrus AP :
AC Powered Wireless PIR Motion & Light Sensor
- Enor E:
BLE-WIFI Gateway with Ethernet & RTC

BACKGROUND

Community Development Corporation of Long Island (CDCLI) has been a key player in supporting the development of thriving communities. During the renovation of their New York office, they identified an opportunity to modernize their lighting systems. The organization was in need of a solution that would reduce energy consumption while simplifying the management of their office lighting.

CDCLI collaborated with **O'Blaney Rinker Associates**, leveraging their expertise in implementing cutting-edge lighting solutions. After evaluating multiple options, Lumos Controls was chosen for its intelligent energy-saving retrofit-friendly ecosystem that promised seamless automation and significant energy savings.

OBJECTIVE

-  Upgrade to an energy-efficient lighting system that enhances operational sustainability.
-  Implement motion sensors and daylight-responsive controls for automated lighting adjustments.
-  Ensure the system supports a retrofit environment with minimal installation downtime.

CHALLENGES

- **Energy Management:** CDCLI aimed to minimize energy usage without compromising lighting quality or occupant comfort.
- **Automation Complexity:** Integrating motion sensors and schedules into a cohesive system while maintaining ease of use was critical.
- **Installation Constraints:** The retrofit project required a solution that could be implemented quickly with minimal disruption to office operations.



SOLUTION

Lumos Controls provided an integrated solution that addressed every requirement seamlessly:

Energy Optimization: The combination of **Radiar AF10** and **PSC-WCM-450-BLE-WS** allowed for precise dimming and automated scheduling, ensuring optimal energy usage without manual intervention.

Automation Through Sensors: The **Cyrus AP** sensors automated lighting by detecting occupancy and adjusting to daylight levels, creating a responsive and energy-conscious environment.

Wireless Control Flexibility: The **EDRPB** and **PSC-DM-I-WS-100-BLE-WS** switches deliver unmatched convenience for CDCLI's smart lighting needs. The EDRPB, a self-powered 4-button wireless switch, enables easy brightness and color temperature adjustments for individual fixtures or groups. Meanwhile, the PSC-DM-I-WS-100-BLE-WS adds motion-sensing automation with its built-in PIR sensor, seamlessly illuminating spaces as needed.

Centralized Management: The **Enor E** gateway provided a reliable backbone for system communication, ensuring seamless integration of all components with centralized monitoring capabilities.operations.

RESULT

The implementation of Lumos Controls' smart lighting ecosystem significantly improved CDCLI's office environment.

Key Achievements:

- **Substantial Energy Savings:** Automated lighting schedules and motion detection reduced unnecessary energy consumption, contributing to cost savings.
- **Enhanced Usability:** Simplified controls and intuitive operation allowed the staff to manage the system effortlessly, reducing training time.
- **Minimal Installation Disruption:** The retrofit-friendly design enabled smooth installation without impacting ongoing office activities.
- **Improved Work Environment:** The automated and daylight-responsive lighting adjustments created a comfortable and productive atmosphere for employees.

CDCLI's lighting retrofit serves as a testament to how intelligent lighting solutions can enhance operational efficiency while supporting sustainability initiatives. By partnering with Lumos Controls, CDCLI successfully achieved their energy and automation goals without compromising on performance.

Transform your space with Lumos Controls. Reach out today to discover the possibilities for your project.