

# Smart Lighting Solutions

## Restaurant Solutions

Adding a Lighting Controls System to your LED Lighting project creates additional savings annually and provides added benefits for your facility.



### Safety & Security

Data tools such as visitor tracking and occupancy data are useful to enhance safety and security by helping you track visitors to your property, as well as monitor parking lot areas at all hours.



### Demand Control Ventilation

Energy savings from the occupancy sensors in each room are analyzed and the resulting data is integrated into the facilities BMS to optimize the HVAC system preventing wasteful HVAC use.



### Intelligent Automation

Smart lighting takes advantage of connected light fixtures and sensors to conform to, and schedule, various desired lighting conditions throughout the day or week.



### Maximized Energy Savings

By combining multiple data sources in your system, such as daylight harvesting, scheduling, and occupancy detection, your system is able to create a maximum savings strategy.



### Environmental Monitoring

The integration of temperature, relative humidity, or CO sensor data into the HVAC system can help maintain targeted environmental values throughout the facility.

## Best in Class Hardware

FSG is able to provide world-class, turnkey lighting controls services with competitive pricing due to strong partnerships and vendor relationships forged over years of cooperation. Trusted hardware vendors include, but are not limited to:



## Types of Lighting Controls Solutions

FSG Smart Buildings is able to handle any type of lighting controls system architecture. Whether you need control at the main panel or something as finite as fixture-level control, FSG can design and deploy solutions to your exact specifications.

### Panel-Based Control

- Control all lighting in a large area with a single schedule or sensor
- Wired at the main panel circuit

### Zone Control

- Each defined zone has its own controller
- Can be wired or wireless
- Panel feeds controller which feed fixtures in each zone

### Fixture Based Control

- Wireless nodes installed at each fixture
- Each fixture has a mini sensor
- Usually software based

### PoE (Power over Ethernet)

- Lighting connected by ethernet cables for low voltage power and data transmission



## A Smart Platform for Smart Lighting

Designed with multi-site businesses in mind, Chariot provides a friendly and adaptive UI from which you can monitor and control your lighting alongside your other energy management and automation systems. Capable of tying together many mixed and legacy systems, Chariot can also monitor the energy usage of your lighting and other types of fixtures.

If corporate compliance mandates that you use a specific hardware, FSG can install and commission your system on the UI of your choice.

