



Lighting Controls Solutions for Your Business

Illinois Fluorescent Lighting Ban 2027





Why Upgrade?

Why Upgrade/Install Lighting Controls Now?

Financial

- **Energy Savings**
 - Average of 49% additional savings with Networked Lighting Controls
- **Incentives to Lower Install**
 - Utility programs – Ameren is one of the best!
- **Reduce Maintenance Costs**
 - Less down time, remote diagnostics, fault alerts

Strategic

- **Code Compliance/Future Ready**
 - IECC 2021 (Illinois)– Lighting Standards
- **Occupant Experience**
 - Human Centric Lighting (HCL)
- **Sustainability**
 - Reduce carbon footprint

The logo consists of a stylized 'e' formed by two overlapping curved lines, one white and one red, creating a sense of motion or rotation.

Lighting Controls Strategies

Lighting Controls Strategies

- Standard Switches
- On/Off

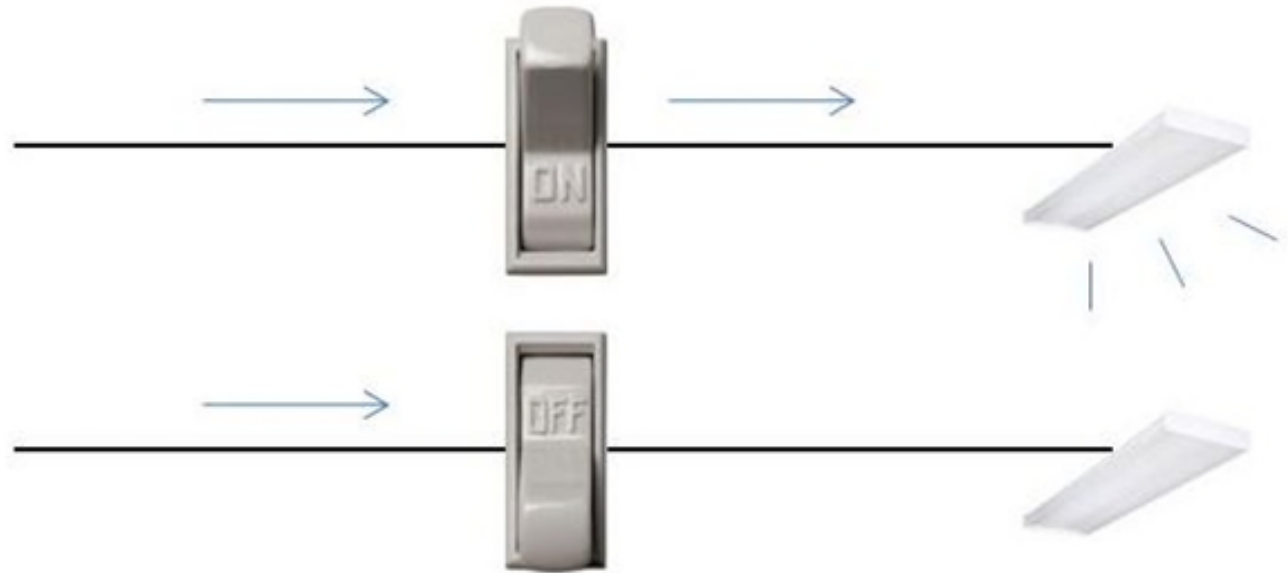


Image courtesy of Lighting Controls Association

Dimming

- **Dimmer-Switch**
- **Ability to adjust the amount of current flowing through the load**
- **Can be done manually or automatically**

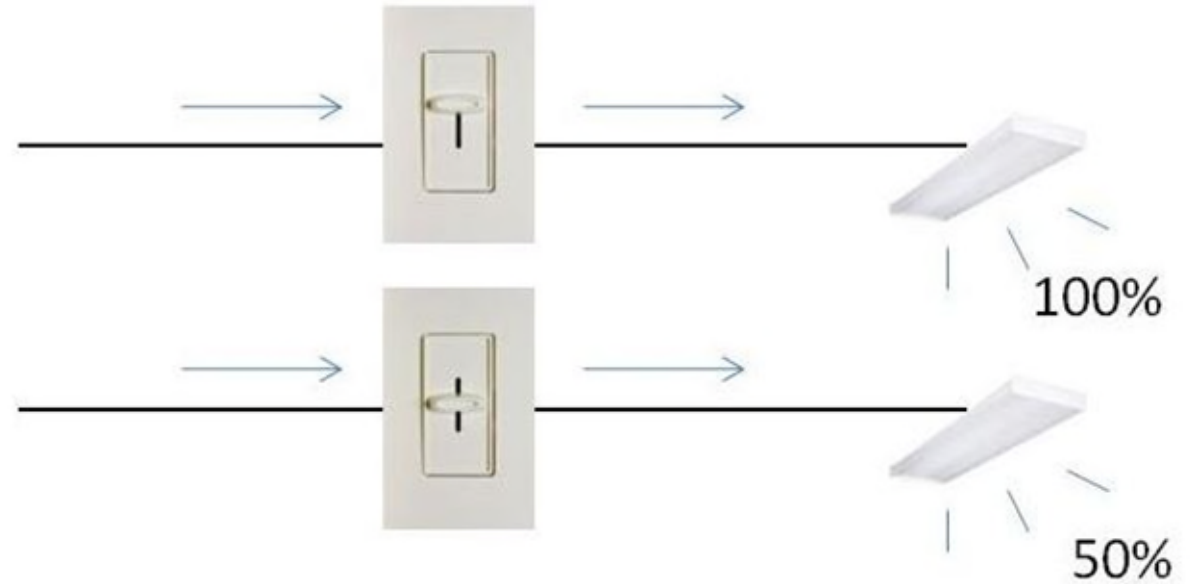


Image courtesy of Lighting Controls Association

Occupancy/Vacancy

- **Used for Switching Lights ON/OFF automatically**
- **Vacancy – Manual On/Auto Off**
- **IECC – 20 min max before reducing output**



Daylight Harvesting

- **Sensors are used to measure the amount of daylight in a space**
- **Lights will dim based on amount of daylight in a space**



Timeclock Scheduling

- Set automatic times for lighting to turn on or off
- This could include dimming as a strategy if using a digital system



High End / Low End Trim

- **Setting limits on how high or low the lights can go**
- **Additional energy savings – linear**
 - 20% Dimming = 20% Savings



Zone Controls

- Allows different lighting controls strategies to be used in the same areas
- 2021 IECC – 600sft max zone size

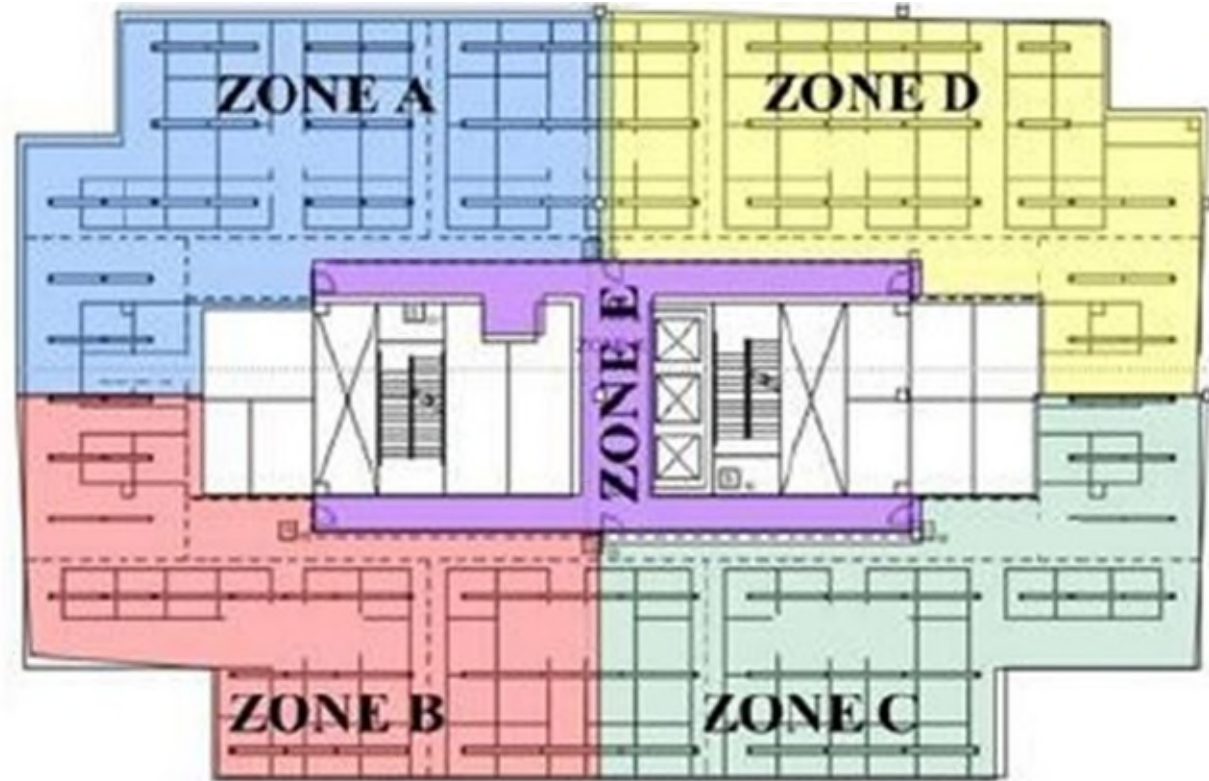


Image courtesy of Wattstopper

Color Tuning

- **Change color temperature of lighting**
- **Often used in hospitals and classrooms**





Types of Lighting Controls Systems

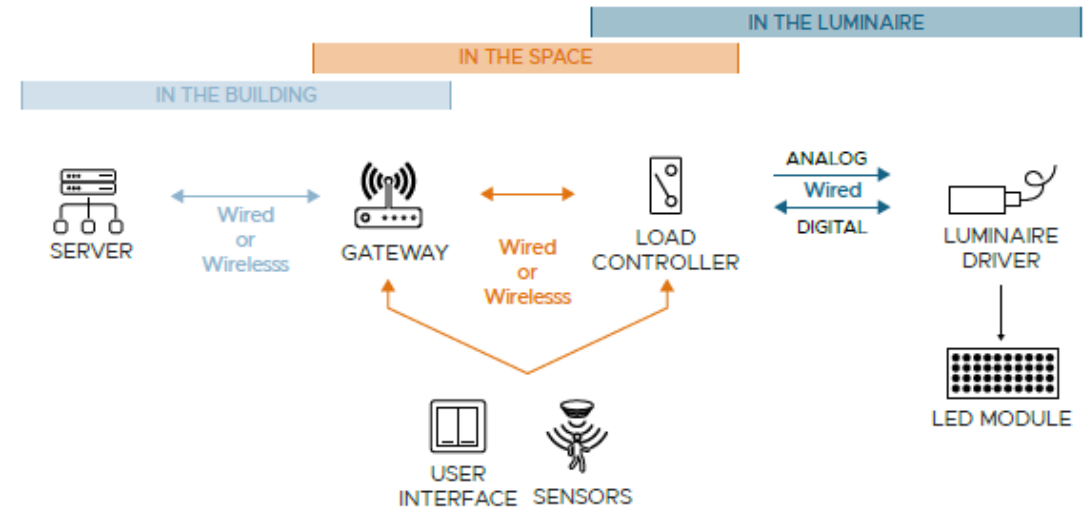
Standalone Lighting Controls

- **Single Room / Small Area**
- **No communications**
- **Basic Lighting Controls Strategies**
 - Wall Switches, Occupancy Sensors, Photocells, Stand Alone Room Controllers



Networked Lighting Controls

- Multiple Rooms / Entire Campus
- Scalable
 - Room->Floor->Building->Multi-Site
- Central Monitoring/Remote Access
- Data / Analytics
- Advanced Controls Strategies
 - High End Trim, Scheduling, Grouped Daylighting



Luminaire Level Lighting Controls (LLLC)

- **Every Fixture has a Sensor**
- **Granular Data**
- **Hyper Flexible**
- **Often Best for Maximizing Rebates**
 - Ameren has one of the best programs in the country



Which is best option for your facility?



Standalone

- **Single Room or Office**
- **Small Warehouse**



Networked

- **Full Office Space/Multiple Floors/Campus**
- **Large Warehouses**



LLLC

- **Renovations**
- **Upgrades**
- **Independent Fixture Control**

Artificial Intelligence (AI) & Lighting Controls

- **AI Enables Predictive, Self-Optimizing Energy Management**
 - Changes from reactive to proactive
- **AI Improves Occupant Comfort Through Human-Centric Lighting (HCL)**
 - Can improve productivity by 18%
- **Predictive Maintenance**
 - May reduce downtime 50% / Can reduce maintenance costs 20-40%
- **Think Digital Now – Cat5 / DALI**





Illinois Fluorescent Ban 2027

When Does It Start?

- **Clean Lighting Act – Public Act 103-0799**
- **January 1, 2026**
 - Screw Base Compact Fluorescent
 - Bayonet Base Compact Fluorescent
- **January 1, 2027**
 - Pin-base Compact Fluorescent
 - Linear Fluorescent lamps (T5, T8, T12 tubes)
- **Existing lamps can remain in service**



Options / Recommendations

- **Stock up now....?**
- **Replace with LED light fixtures**
- **Upgrade to LED tubes and lamps**
 - Type A – Plug and Play – Works with a ballast
 - Type B – Direct wire – Remove ballast
 - Type A/B – Work with or without the ballast
- **Add Lighting Controls**
 - Digital if possible (future proof)
 - Type C – Led Lamps





Thank you.

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