

LIGHTING HANDOUT

Luminaire Level Lighting Controls for Decision-Makers



Save now, save later: Future-proof your lighting with LLLC.

Luminaire Level Lighting Controls (LLLC) is a type of networked lighting control (NLC) system which integrates both sensors and load controllers into each fixture, providing unparalleled flexibility, control, deep energy savings, and a great lighting experience.

- **High-value proposition:** LLLC starts paying for itself as early as installation and continues to provide dividends over the life of the system.
- **A great lighting experience:** LLLC combines optimal light quality, flexible configuration, and ease-of-use to meet your tenants and building needs.
- **Unlock your building's potential:** LLLC offers business benefits beyond energy savings including system integration, healthier work environments, and the ability to future-proof your lighting investment.

Key features and benefits.

Lifecycle value: Wireless solutions, retrofit kits, and pre-programming streamlines installation and reduces costs. A recent study also found that an LLLC 1:1 retrofit provided similar energy and light quality performance at roughly one-third of the cost of a full lighting redesign.¹

Integrated sensors: LLLC can save up to 75% in energy usage compared to standard LED fixtures. Integrated sensors and advanced control methods provide maximum energy savings that compound over the life of the system, making it a smart investment.

Addressable via familiar platforms: Using intuitive app-based tools and smart devices, your installers and facilities operators can quickly adjust and optimize LLLC systems. Zones, light levels, and behavior settings are easily reconfigured at the fixture level to meet future building needs without costly rewiring.

Future-proof and secure: Rather than becoming obsolete as technology advances, LLLC systems are incredibly adaptable. Lighting adjustments can be made at the touch of an app, and the systems can be upgraded to provide new software features or patch cyber vulnerabilities.

System integration: Many LLLC systems offer HVAC integration, remote diagnostics, and energy optimization and can extend the capabilities of your building management systems. With new applications such as air purification, asset tracking, and space utilization becoming more common, LLLC systems help provide the backbone of smart buildings.



¹Chris, Wolgamott et al., "Luminaire Level Lighting Controls Replacement vs Redesign Comparison Study" Northwest Energy Efficiency Alliance, Sept. 3, 2020. [neea.org/resources/lllc-replacement-vs-redesign-comparison-study](https://www.neea.org/resources/lllc-replacement-vs-redesign-comparison-study)