

## LIGHTING OVERVIEW

# Luminaire Level Lighting Controls

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

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

- **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 the needs of your tenants and building.
- **Request LLLC for your next project:** To ensure your performance specifications and LLLC's business benefits, contact your local utility or Northwest Trade Ally network.

## Key features and benefits for building owners and facility managers

**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.<sup>1</sup>

**Utility support:** Northwest utilities typically offer financial incentives to reduce the upfront cost of LLLC for both new construction and retrofit projects. Your local utility can guide you through their programs and connect you with lighting specialists.

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

**Future-proof and secure:** Rather than becoming obsolete as technology advances, LLLC systems are incredibly adaptable. With the touch of an app, your installers and facilities operators can quickly adjust and optimize your lighting, as well as manage new software features and 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.



<sup>1</sup>Chris, Wolgamott et al., "Luminaire Level Lighting Controls Replacement vs Redesign Comparison Study" Northwest Energy Efficiency Alliance, Sept. 3, 2020.