

SMART LIGHTING PLATFORM SOLUTION BRIEF

Lunera Energy Management

With always-on sensors, controls and networking technology in every bulb, Lunera makes comprehensive energy management, reporting and analysis an everywhere reality.

Using energy more efficiently across every room, floor and building of your business could mean tens of thousands or even hundreds of thousands of dollars in savings each year. With Lunera, it couldn't be easier.

The Lunera Smart Lighting Platform lets you:

- Deploy a vast network of sensors and controls, with plug-and-play activation and zero disruption to your existing infrastructure.
- Access real-time information from every lamp located throughout your facilities, then use that information to adjust light and HVAC settings dynamically to optimum levels.
- Dramatically reduce your energy usage, lower your energy costs and meet your organization's sustainability goals.



How quickly can Lunera help you save on your energy costs?
How quickly can you change a light bulb?

Key Energy Management Capabilities

In every bulb and every building, Lunera helps you use energy smarter.

Occupancy-based lighting and HVAC control

With always-on light and motion-sensing capabilities, Lunera Smart Lamps know whether a room is occupied or empty, and can use that data to optimize light and HVAC settings by room, floor and building.

Dynamic scheduling

With access to your energy usage history, current weather information, your utility's pricing structure and more, Lunera can shift HVAC loads to less expensive hours, prevent early building startup and late shutdowns and make micro-adjustments throughout the day based on individual zone temperatures and pressure.

Peak demand management

Using predictive analytics, Lunera can forecast your top demand days in each billing cycle, then take predetermined measures to mitigate future peaks—through pre-cooling, temperature set-backs, dimming and more.

Automated Demand Response (ADR) integration

By making real-time adjustments during periods of peak demand in seamless coordination with your utility's ADR program, Lunera can help you meet financial incentives and achieve significant cost savings.

Real-time light management and verification

Lunera Smart Lamps measure and report their power consumption through the cloud to the Lunera Ambient Compute platform, where you can set controls for time-of-day dimming—and even trimming output at a fixed value for more savings.

Lunera eliminates the cost and disruption that come with traditional building management systems.

Here's how:

- Integrates sensors, controls and communications at the chip level directly into the bulb. No new hardware components are required.

- Uses your facilities' existing lighting infrastructure to deploy and power your Lunera Smart Lamps. You never have to touch your existing infrastructure or worry about re-building in the field.
- Leverages your existing Wi-Fi network to connect Lunera Smart Lamps to one another and to the Lunera Ambient Compute platform, without needing a separate network or individual gateways.

AT A GLANCE Why Lunera?

- Designed for existing buildings
- Simple, cost-effective deployment
- Zero risk, with no disruption to your current infrastructure
- Save energy immediately, achieve fast payback in less than two years
- Future-proof, with all software updates available in the cloud

About Lunera

Lunera is an IoT infrastructure company that delivers simple, affordable and valuable networked command and control solutions for commercial and industrial buildings through lighting.

Our Smart Lighting Platform of connected LED lamps and cloud-based software applications, is a universal IoT gateway infrastructure, enabling indoor GPS and real-time location-based services while, delivering coordinated energy management of lighting, HVAC and plug loads throughout a facility. Built on open standard, the platform is highly scalable. A robust set of applications are available in the expanding, cloud-based Lunera Applications Marketplace.

Lunera is redefining traditional LED lighting to catalyze change and realize a vision for location/context aware ambient computing at the edge.

<https://www.lunera.com/smart-lighting-platform>