



# Outdoor Lighting Systems

## ***Empowering Intelligent Energy Solutions***

Outdoor lighting for public spaces such as streets, airports, parks, college campuses, monuments, and commercial and retail parking lots provide drivers, pedestrians and residents with visibility and safe passage, but do so at a high energy cost.

In a typical municipality, an outdoor lighting system can account for up to 40% of the city's total energy use. Combine that with the added cost of maintenance and lighting systems can easily become a city's single largest expenditure.

A lighting system based on the LonMark interoperability standard can use existing power wiring or wireless mechanisms to send and receive data to control individual lamps and segments. Municipalities can also remotely adjust light levels based on time, traffic, weather or season. Because the products are tested and certified by LonMark International, it is possible to mix and match components or system elements from multiple suppliers, further driving down implementation and maintenance costs.

An added benefit to the system is increased driver, pedestrian and resident safety. The system can be integrated with police and emergency services for lamp flashing and serve as an infrastructure for new services such as traffic sensing.

## **PROGRAM BENEFITS**

***Benefits of installing networked streetlight solutions include:***

- Reduce energy consumption by up to 40%
- Reduce maintenance costs by up to 50%
- Remote monitoring and control
- Increased driver, pedestrian, and resident safety
- Rapid return on investment

*LONMARK International is a driving force in creating and promoting interoperability standards to reduce costs and increase the use of open systems in a wide variety of control applications in the building, industrial, lighting and other industries.*



# LIGHTING

# How Being Part of LONMARK International Can Help You

## AS A MANUFACTURER OF LIGHTING PRODUCTS YOU CAN:

- Become part of a networked, standards-based world
- Reduce your development cost and time to market
- Leverage standards already in place and drive new standards to help shape your industry
- Increase your market opportunity with LONMARK® certified products
- Lower warranty and service costs
- Create new business opportunities through Internet connectivity to device networks
- Interoperate with products from other manufacturers

## AS A SYSTEM INTEGRATOR/SOLUTION PROVIDER YOU CAN:

- Gain access to a wide array of interoperable products that help you build solutions better tailored to suit your customers' needs
- Choose from a wide variety of lighting vendors
- Build more reliable systems that include lighting
- Reduce your service costs
- Respond to specifications requiring LONMARK International certified products
- Easily interface with all other commonly used technologies and standards
- Gain knowledge about implementation and best practices

## AS AN END USER YOU CAN:

- Have free choice of vendors and manufacturers of products, choice of integrators, choice of service contractors
- Use smart LONMARK certified lighting products and integrated LONMARK International systems for significant energy savings
- Create totally integrated building systems containing interoperable lighting, HVAC, security, air quality, energy metering, data logging, remote access systems to lower operating and maintenance costs
- Include intelligent lighting as part of your demand response strategy on the smart grid
- Add new devices and functions into existing system without the need to replace or reprogram existing devices
- Easily run energy compliance and savings reports

For more information about the many ways LonMark International can help you, visit

[www.lonmark.org](http://www.lonmark.org)

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