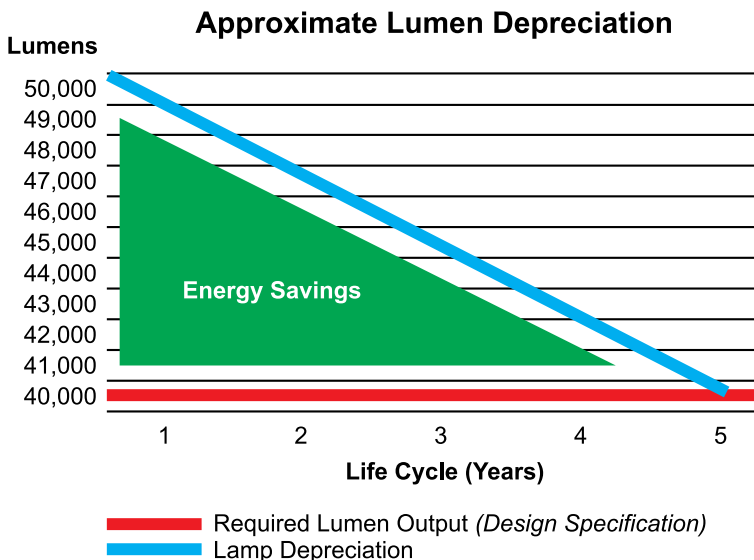


Streetlight

INTELLIGENCE™

THE POWER *to reduce energy consumption*

Once installed, your Lumen IQ™ Street Light Optimization System will immediately reduce the energy consumption of your street light lamps by monitoring and adjusting the lamp output in real time. The system ensures each lamp fixture is operating to design specifications for the duration of its operating life.



The chart above shows the blue “mortality” curve, which represents the typical depreciation of lumen output for a high pressure sodium bulb over its lifetime. Note that because of the way in which the bulb depreciates over time, the lumen output at beginning of life is 50,000 lumens. This ‘over lighting’ ensures that at the 5 year end of life for the bulb, it still provides enough lumen output (40,000) to meet design specifications.

As the bulb depreciates over its lifetime, the on-board Lumen IQ™ Controller increases the lumen output in real time to ensure the specification is always maintained. The inefficiency that is eliminated by the controller is represented by the green triangle in the chart. The net result is energy savings of up to 17% on a 150W HPS bulb, and up to 22% on a 400W HPS bulb.

For full energy savings of up to 40%, you can also use the Lumen IQ™ Street Light Optimization System to reduce light levels during periods of low pedestrian activity.

What is the Financial Impact of Status Quo?

Do you know exactly how much your community is losing every day by NOT implementing our energy-saving street light solution?

Use our interactive online cost savings calculator to understand the potential impact of Lumen IQ™ technology on your community’s power budget. The calculator provides the lifecycle savings, in terms of dollars and greenhouse gas emissions, as well as an estimate of the payback period. The calculator is available at:

www.StreetlightIQ.com/Calculator.aspx

Introducing the “Smart Street” Pilot Program

Ultimately, you will see that the monthly savings are so significant that maintaining the status quo cannot be justified. The next step is contact us and arrange for the installation of our Smart Street Pilot Program, which involves installing an initial network of lamp controllers and a central control system. The pilot program can be installed in one to two days and is designed to operate for one month to provide you with in-field proof of our technology’s capabilities, performance and reliability.

Contact Us Today

To learn more, contact at Streetlight Intelligence representative at:

Toll-free (USA & Canada): 1-888-563-8833

Worldwide: +1 (250) 544-0147

Fax: +1 (250) 544-0148

info@StreetlightIQ.com

www.StreetlightIQ.com



THE POWER *to reduce your community's carbon footprint*

Communities worldwide are seeking new ways to reduce their carbon footprint as the realities of global warming begin to affect our daily lives.

Many are now evaluating the possibilities of new sources of energy, such as solar, wind, wave and nuclear power. These sustainable, "clean" sources of energy are gaining more awareness and momentum, particularly as technology improvements bring their costs in line with traditional fossil fuel-based electricity.

However, **the cleanest source of new energy is energy conservation**; that is, the creation of new energy capacity by reducing energy waste.

Lumen IQ™ Technology Reduces Energy Waste

Our Lumen IQ™ Street Light Optimization System can improve the energy efficiency of your street light network by up to 40% without any compromise to its performance or public safety.

For most communities in North America, street lighting accounts for 25% to 35% of their entire municipal energy budget. **By cutting this figure nearly in half, our Lumen IQ™ technology can free up millions of dollars in wasted energy on an annual basis.** Depending on the combined sources of your electricity, it can also dramatically reduce your community's carbon footprint.

In addition, a Lumen IQ™ Street Light Optimization System uses lamp controllers that are retrofitted to light fixtures already existing in field. Unlike other options available, there is no wholesale replacement of your street light infrastructure to obtain the full benefits of our technology. The installation is relatively straight forward, non-technical and cost effective; in fact, a typical street light fixture can be retrofitted and commissioned in approximately 20 minutes.



Less Energy Means Less Greenhouse Gas Emissions

There is a direct correlation between energy savings and CO₂ reduction; that is, for every kW_r not expended, there is a corresponding reduction in the kilograms of CO₂. The ratio of the reduction depends on percentage of the electricity that is sourced from the burning of fossil fuels.



As an example, in the Province of British Columbia there are approximately 300,000 street lights and the average CO₂ coefficient for each kW_r of electricity used within the province is .326 kilograms. **If Lumen IQ™ technology was installed province wide, it would save the province 103,500,000 kWhrs in energy per year, valued at approximately \$6.5 million dollars. It would also reduce the province's CO₂ footprint by 33,740 tonnes each year.** In addition, Lumen IQ™ technology has been designed for a lifespan of 20 years or more and each system installed would pay for itself in less than five years.

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INTELLIGENCE™

THE POWER *to reduce operating costs*

Our Lumen IQ™ Street Light Optimization System is the ultimate solution for utilities, municipalities and commercial entities looking to streamline the management of their street light networks.

Lumen IQ™ Central Gives You Full Control

Monitor your street light network from practically any location in the world using a desktop PC and a connection to the Internet.

At the heart of the Lumen IQ™ Street Light Optimization System is Lumen IQ™ Central, a dedicated, smart client application that resides on your computer and uses the Internet to interface between the database for your street light network and one or more Lumen IQ™ Stations.

Once installed and connected to the database, only basic training is required to utilize the full potential of Lumen IQ™ Central:

- Monitor the performance and energy usage data gathered to adjust the output of individual street lamps, groups of street lamps or your entire street light network in real time.
- Create and maintain accurate inventory records for your street light network(s).
- Create and implement adaptive lighting protocols based on energy usage analyses.
- Create and manage street light maintenance schedules. As different roadway types (residential, collector, arterial, expressway and freeway) have different maintenance requirements, you can manage these maintenance schedules by both roadway type as well as street light GPS locations.
- Interface with asset management systems to provide accurate location and routing information. Lumen IQ™ Central has been integrated seamlessly with Microsoft® MapPoint® server. It can also interface effectively with other popular off-the-shelf asset management systems, such as Hansen or ArcGIS.
- Easily generate reports and analyses of your street light network's performance and energy savings.



A Proactive Approach to Street Light Maintenance

Why REACT to a lamp failures when you can replace your lamps before they expire!

By automatically monitoring the mortality curve of each lamp fixture in your street light network, your Lumen IQ™ Street Light Optimization System will accurately predict and notify you of lamp failures BEFORE they occur. You will be able to develop more efficient and cost-effective maintenance scheduling and greatly improved system performance.

In addition, each on-board Lumen IQ™ Controller in the system also includes proprietary lamp sensor technology which ensures cycling lamps are detected immediately upon the very first cycling event. The system then automatically advises you of the cycling event and the frequency of cycling so that you can affect repairs before the cycling damages other components and leads to permanent lamp failure.

Cost-Effective Service Routing

With its integration into Microsoft MapPoint® Server or your own asset management system, the Lumen IQ™ system will enable you to develop the most efficient routes for lamp replacements. It even provides GPS accuracy that enables day time service crews to quickly identify the street lights in need of repair.

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