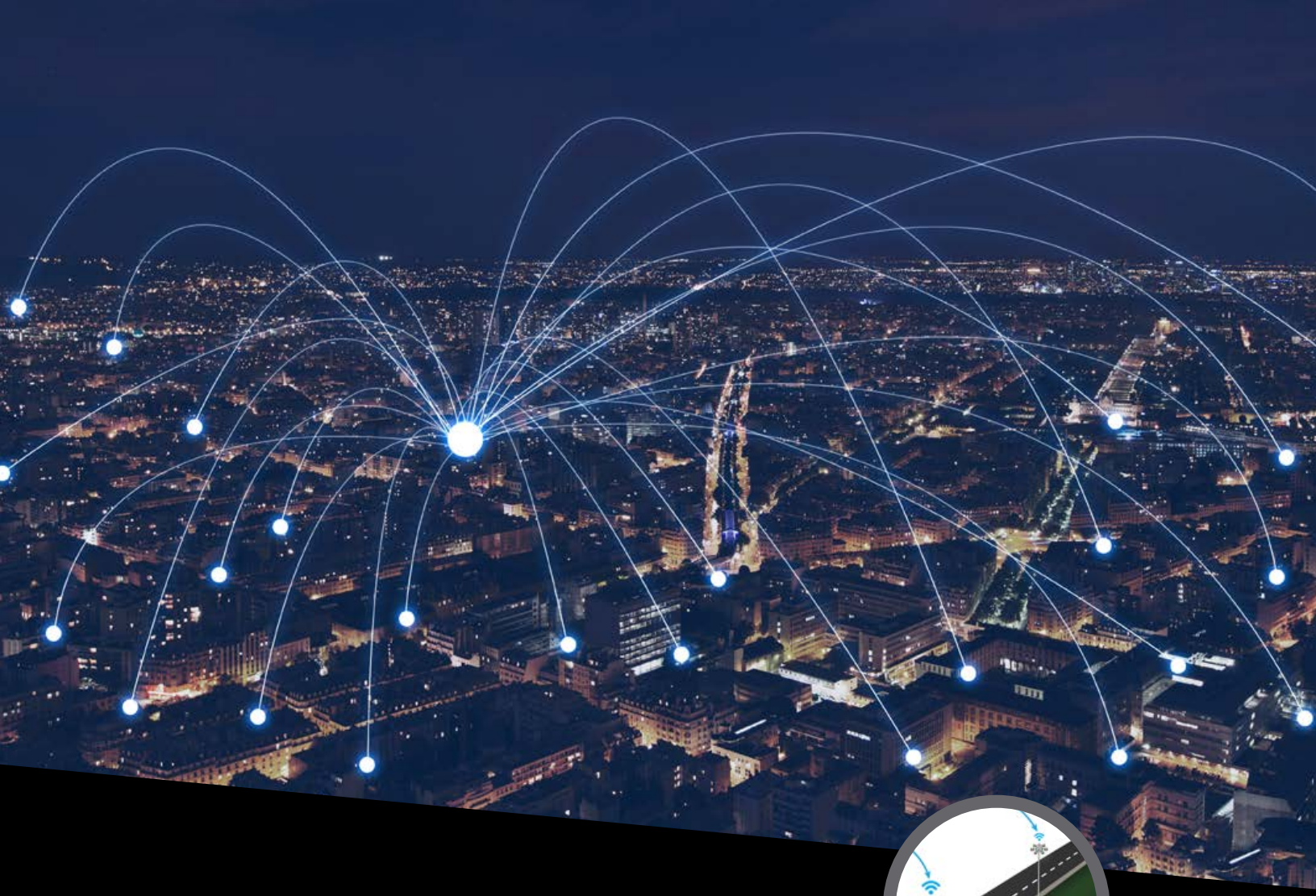
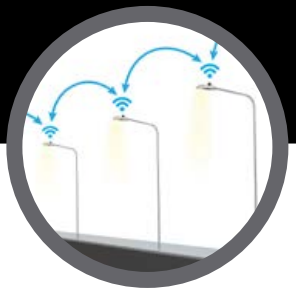




LightGrid™ Outdoor Wireless Control System



Any distance. Anywhere.
The smartest grid on the block.



GE current
a Daintree company

Managing **Street** and **Roadway** lighting just got *easier*

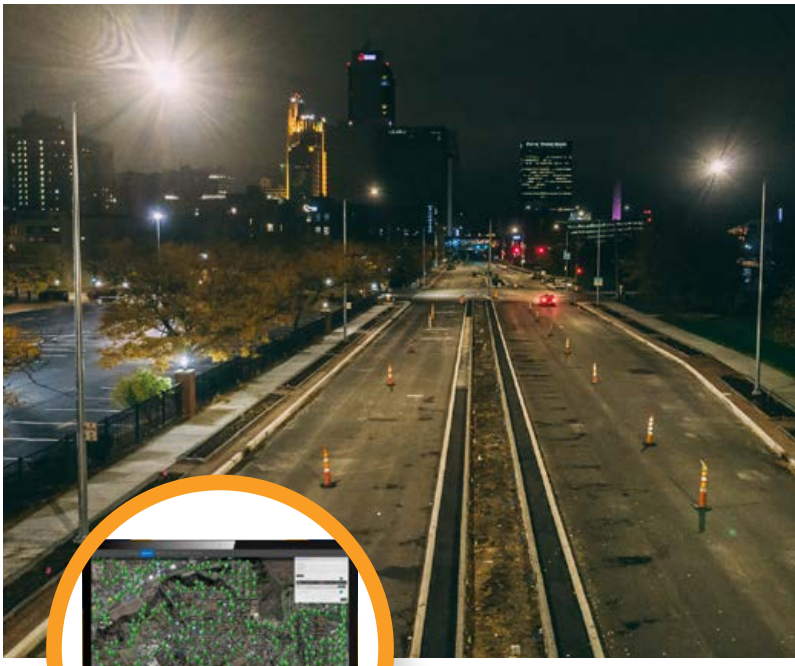
The **LightGrid™ Outdoor Lighting Control System** provides impressive access to every fixture in your system for greater total savings and efficiency. Designed for Street and Roadway Applications, **LightGrid™** enables remote monitoring, control, and asset management of a single fixture or a group of fixtures through a web-enabled Central Management System. From your desktop or mobile device, you can see what's happening right now and track trends over time, transforming your decision-making process and making your life easier.



Control Output

Optimize energy usage via light adjustment by individual pole location and time of night.

- On/Off & Dimming
- Constant Light Output
- Custom Scheduling
- Power Trimming



Remote Monitoring

Receive essential data in a timely fashion for informed decision-making.

- Report by Location
- Day Burner/Dark Night
- Fault Notification



Maintenance Optimization

Greatly reduce and streamline repair calls with constantly updated information.

- Line Voltage Data
- Day Burner/Dark Night Alerts
- Custom Fault Notification



Utility Grade Measurement

Know what your energy expenditure per pole really is via precise monitoring.

- Accurate, Real Time Energy Metering Per Pole
- +/- 0.5% Accuracy

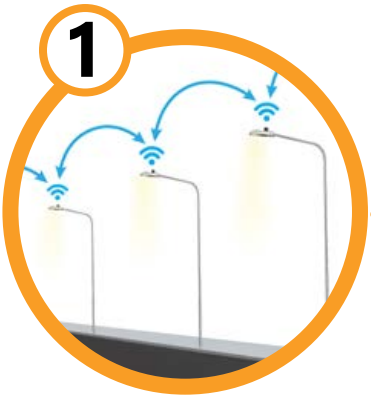
A Depth of Experience

We've managed ***over 150*** deployments for Municipalities, Utilities, DOTs, and Energy Service Companies throughout United States, Canada, and Latin America on projects ranging from a few hundred nodes to over 80,000 nodes. Our customized technology solutions utilize RF Mesh systems, Cellular systems and a Hybrid of the two, when appropriate.



Customized Solutions use *mesh* and *cellular* networks

Whether your fixtures are in a tight urban setting, or remote country locale, our total solution gets data from the pole to the cloud with remarkable accuracy and reliability. Our engineers will specify which system, or hybrid combination of systems is best for achieving your goals. Either way, the outcome is the same: reduced annual cost through superior data acquisition and analysis.



RF Mesh Network

Ideal for areas with high concentrations of adjacent poles including Downtown, City Centers Tunnels and Long Underpasses, the **RF Mesh Network** allows fixtures to communicate with each other as well as the gateway, which sends the data to the Central Management Server.



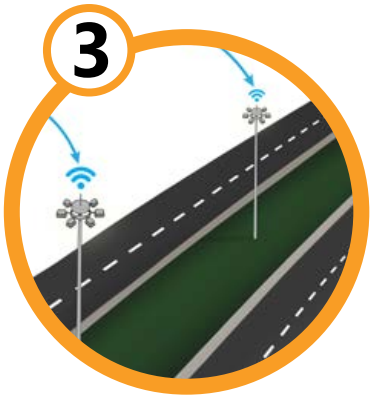
The Gateway

The **Gateway** connects nodes (which reside on top of the fixtures) to the Central Management System through a standard TCP-IP interface. Optional wireline connectivity is also available



Cloud/Central Management System

The primary "brains" of the operation, this user friendly web-based interface gathers and processes information from an **RF Mesh Network, Cellular Point to Point System,** or combination of both. Access real-time data for a single fixture or group of fixtures from your desktop or mobile device; view the status of each fixture and control lights remotely. Choose from a variety of data presentation options including dynamic map view.



Cellular **Point to Point** System

Designed for areas where poles are set farther apart from each other, including Highways, Toll Roads and Parking Lots, the **Cellular Point to Point System** allows data to travel directly from each node (on top of each fixture) back to the server without the need of a Gateway.

Complete Range of Fixture Types

LightGrid is a comprehensive solution that communicates with every Current LED fixture in your system. Cobra Heads, High Mast, Post Tops, Area Lights—they're all covered in one seamless presentation of practical, powerful data.

Internal and External Nodes



External Nodes sit atop Cobra Heads, High Mast and Area Lights, they work with both RF Mesh and Cellular Point to Point systems. Nodes function on a 3 pin receptable (on/off controls) or 5/7 pin receptable for dimming.

- 0-10V/DALI Autodetect Dimming Interface
- 0.5% Utility Grade Metering
- 120-480 Universal Voltage (Standard)
- 10kV/5kA Surge Protection (Standard)
- Inrush Current Limiting Circuit
- DALI Data Transfer
- Embedded GPS for Automated Location



Internal Nodes are hidden inside Post Top fixtures to maintain a classic design aesthetic.

- Allows Remote Monitoring and Control of fixtures without ANSI Receptacle
- Node operates via schedule. This can be done by using our commisioning app or recording installed locations that can be loaded to our web application.



Customized Hybrid Solutions

When your project includes more than one type of pole setting, our engineering team will precisely specify a customized solution that utilizes both RF Mesh and Cellular Point to Point technologies in one seamless application.

From **Urban** and **Suburban** to *Rural* and *Remote,* you're covered




2
3
1 RF Mesh Network
2 The Gateway
3 Cellular Point to Point System



The Current Advantage

The latest technology from the company with a long-term history of proven reliability—that's what you get when you choose **LightGrid**™ from Current. Our innovative features deliver impressive energy, maintenance and time-saving benefits. Discover the difference choosing the best can make for your company or municipality. Our extensive features include:

- Dual Architecture Solution: Mesh & Cellular P2P
- Universal Voltage (120-480V) Standard
- Utility Grade Metering (0.5% Accuracy)
- Enhanced Surge 10kV/5kA Standard
- Asset Management (GPS & DALI)
- API's and Metering Billing Integration
- Tilt Sensor available (Cellular only)

Find out more, visit **gecurrent.com** or contact your sales associate today.

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a Daintree company

www.gecurrent.com

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