PGL7 with LimeLight™ Control

To design the optimal parking garage lighting configuration, start with the PGL7 LED with PicoEmitter™. The PGL7 greatly improves illumination and uniformity over a typical parking garage luminaire, reducing glare that can significantly affect vehicular and pedestrian safety. Each PGL7 PicoEmitter is precisely aimed at optimal angles for maximum performance and uniform illumination allowing light to be directed where needed to deliver an extremely effective and affordable solution for parking structure illumination.

With the addition of LimeLight wireless control garage lighting becomes intelligent, with each fixture having its own two-way radio with integrated motion and photocell sensors to control daylight and night-time harvesting. A custom web browser interface is included that documents garage activity, controls daily energy usage, and peak/minimum energy consumption periods.

Each PGL7 luminaire with LimeLight communicates with 8 to 12 neighboring luminaires. Those devices then communicate with 8 to 12 other neighbors and so on to create a spider web of communication known as a high density mesh.

This redundant communications system is self-healing. If a radio fails, the other radios will immediately search for and establish communication with other neighbors to maintain the mesh. This high density mesh system operates smoothly even in the most difficult conditions.

LimeLight’s radio control continuously measures the current draw of the system allowing it to immediately detect any component operating...
outside of normal parameters. Upon detection, an email or text message detailing the situation is sent directly to a designated computer or mobile device. Critical issues are identified in real-time and can be serviced right away avoiding any lapse in security or safety.

Web Enabled User Interface

Every LimeLight garage installation includes a custom designed web based Graphical User Interface (GUI). The GUI allows easily access to authorized users to view current status of garage lighting output and control the system for optimal energy savings and security.

The web application allows you to establish Lighting Groups and Events. Up to 50 unique Light Groups can be established and edited. It is easy to add or delete fixtures within a group or to put fixtures into multiple Light Groups for optimal control. Events enable users to schedule a wide variety of operating hours and lighting schedules. Schedules can be set up for weekday and weekend entry and exit times, special events or holiday operating hours.

The LimeLight interface monitors all lighting system activities. Any activity associated with the system can be searched and fine-tuned. Data is downloaded automatically to Excel for even more detailed reporting and analysis.

Energy Savings and Security

The PGL7 Parking Garage Luminaire, coupled with TwistHDM’s innovative LimeLight wireless control technology is the ultimate parking garage lighting solution, providing over 65% in energy savings without compromising security and safety. With wireless control technology the garage is no longer tied down by hard-wired circuitry allowing incredible flexibility to maximize your lighting control strategy.
60.3% Savings with LimeLight

University of Michigan, Hill Street Facility
The above report, generated in late 2011 shows what LimeLight's consumption in a 24/7 all-on state would be (red line), and the energy consumption provided by LimeLight's controls (gray area). LimeLight "control factor" of 60.3% is the added energy savings over and above the simple wattage reduction in the fixture. The green area is the energy savings provided by daylight harvesting mode.
Intelligent Garage Lighting System

Features and Benefits:
- Kim Lighting’s low glare LED PicoEmitter technology with up to 10,000 lumens.
- Exceptional uniformity in Type 3 & 5 narrow and wide distributions with optional Type III NFO (Neighbor Friendly Optic).
- Maximize energy savings without compromising safety and security. Potential savings of over 70%.
- Motion sensing, photocell, daylight/nighttime harvesting capabilities.
- Cloud based control and real time data collection.
- Customized GUI to view current system status and optimize energy saving profile.
- Data automatically downloaded to Excel for detailed reporting and analysis.
- Daily, weekly, holiday and special event scheduling.
- Meets California Title 24 and ASHRAE regulations for energy efficiency.

LimeLight Ordering Options:
- LLCM (LimeLight Radio and Occupancy Sensor Module) – Assures temperature sensitivity of electronic components is within specification.
- LLGW-03 (LimeLight Ethernet Gateway Hardware) – High density RF Mesh coordinator, software proprietor, manifest holder of fixture ID’s groupings and events.
- LLGW-04 (LimeLight Cellular Gateway Hardware) – High density RF Mesh coordinator, software proprietor, manifest holder of fixture ID’s groupings and events.
- LLSC-100 (Group Software and Commissioning for up to 100 Luminaires) – LimeLight’s exclusive system WEB software and Cloud Hosting Service.
- LLSC-1 (Software and Commissioning for each luminaire over the 100 Unit threshold).

Ordering Example:
PGL71/E4560L5K/277/PS/LS/SF/LLCM

Refer to PGL7 specification sheet for detailed information. To get started on a project, call 877-355-8954, or contact hubbell@twisthdm.com.
Additional Kim Lighting LED Families

- ALTITUDE®
- THE PICO PROGRAM
- WARP9
- LIGHTVAULT® 8
- LED BOLLARD COLLECTION
- LANDSCAPE LIGHTING COLLECTION