

Smart outdoor lighting pilot program: Enhance safety and acquire a future-proof technology platform without compromising energy efficiency and maintenance goals

Increasingly, organization and city leaders cite energy efficiency, carbon reduction, and reduced operating and maintenance costs among their highest priorities. By bundling *Lumewave by Echelon*® controls with an LED lighting upgrade you can achieve:

- Up to **70% energy savings** with adaptive intelligent control
- Up to **80% carbon reductions** toward climate goals
- Future-proof technology platform for future smart city application deployment
- Suite of safety and comfort capabilities for citizens without compromising energy efficiency and maintenance goals
- Extended lifecycle of lighting infrastructure
- Reduced operating and maintenance costs
- Integrated lighting control and connectivity border-to-border, regardless of fixture or lamp type
- Enhanced public safety and security in high risk areas without compromising resident satisfaction

Start a pilot today and join successful customers such as Cambridge

(<http://www.echelon.com/assets/blt39b6475f3f7acf71/Cambridge%20Case%20Study.pdf>), Bellingham

(<http://www.echelon.com/assets/blt87072d18e94cda37/Bellingham%20Case%20Study.pdf>), and others to experience the future of smart lighting!



Your pilot kit can be wireless (RF) or power line (PL) based

Wireless Radio Frequency Pilot Kit Includes:

- 5 wireless lighting controllers
 - TOP900 TLX (<http://echelon.com/products/lumewave-top900-tlx-wireless-lighting-control-module>) for ANSI 136.41-ready fixtures
 - TOP900 TN (<http://echelon.com/products/lumewave-top900-tn-wireless-lighting-control-module-by-echelon>) for other fixtures

- 1 *Lumewave* Gateway (<http://echelon.com/products/lumewave-gateway>)
- 1 cellular modem with SIM card
- 90 days cellular service (activated upon shipment)
- 90 days license for LumInsight™ Desktop (http://echelon.com/products/luminsight_desktop) (formerly LumeStar) central management system (CMS) software (activated upon shipment)

Power Line Pilot Kit Includes:

- 5 CPD 3000 (http://echelon.com/products/cpd_3000-Outdoor-lighting-controller-pl) outdoor lighting controllers
- 1 SmartServer Power Line (http://echelon.com/products/smartservers_pl) segment controller
- 1 cellular modem with SIM card
- 2 power line filters
- 90 days cellular service (activated upon shipment)
- 90 days license for LumInsight™ Cloud (<http://echelon.com/products/luminsight>) (formerly LumeStar) central management system (CMS) software (activated upon shipment)

Pilot Kit Ordering Information:

| Ordering | Product Name | Description |
|----------------|---|---|
| 101000 | <i>Lumewave</i> Wireless Pilot Kit TLX | 5 TOP900 TLX wireless lighting controllers, 1 <i>Lumewave</i> Gateway, cellular modem with SIM card (90-day cellular service), and LumInsight Desktop CMS (90-day license) |
| 101001 | <i>Lumewave</i> Wireless Pilot Kit TN | 5 TOP900 TN wireless lighting controllers, 1 <i>Lumewave</i> Gateway, cellular modem with SIM card (90-day cellular service), and LumInsight Desktop CMS (90-day license) |
| 10140R-10-FCWH | <i>Lumewave</i> PL Pilot Kit Single-Phase International | 5 CPD 3000 Power Line Lighting Controllers (European version), 1 SmartServer PL Pro, international HSPA+ modem with global SIM card (90-day cellular service), power line filters, and LumInsight Cloud CMS (90-day subscription) |
| 10140R-10-FNTU | <i>Lumewave</i> PL Pilot Kit Single-Phase T-Mobile US | 5 CPD 3000 Power Line Lighting Controllers (US and Asia version), 1 SmartServer PL Pro, US LTE HSPA+ modem with T-Mobile SIM card (90-day cellular service), power line filters, and LumInsight Cloud CMS (90-day subscription) |
| 10160R-10-FCWH | <i>Lumewave</i> PL Pilot Kit Three-Phase International | 5 CPD 3000 Power Line Lighting Controllers (European version), 1 SmartServer PL Pro with External Coupling, 3-phase coupler, international HSPA+ modem with global SIM card (90-day cellular service), power line filters, and LumInsight Cloud CMS (90-day subscription) |
| 10160R-10-FNTU | <i>Lumewave</i> PL Pilot Kit Three-Phase T-Mobile US | 5 CPD 3000 Power Line Lighting Controllers (US and Asia version), 1 SmartServer PL Pro with External Coupling, 3-phase coupler, US LTE HSPA+ modem with T-Mobile SIM card (90-day cellular service), power line filters, and LumInsight Cloud CMS (90-day subscription) |

Wireless Pilot Kit Expansion Ordering Information:

| Ordering | Product Name | Description |
|----------|---------------|--|
| 100118 | TOP900TLX-GRY | Wireless controller, NEMA standard ANSI C136.41-2013, 120-277V |
| 100106 | TOP900TN-GRY | Wireless controller, 1/2" threaded nipple, 120-277V |
| 100127 | EMB900S | Wireless outdoor lighting module, side mount |
| 100128 | EMB900V | Wireless outdoor lighting module, vertical mount |
| 100129 | EMB900E | Wireless outdoor lighting module, external antenna |
| 100120 | MWX-LVE-180U | Outdoor microwave sensor |
| 900908 | FS-305-LU | Outdoor/indoor passive infrared motion sensor |
| 900907 | EW-205-LU | Outdoor passive infrared motion sensor |

Power Line Pilot Kit Expansion Ordering Information:

| Ordering | Product Name | Description |
|-----------------|--|--|
| 76600R | CPD 3000 Light Controller (US and Asia) | Power line outdoor lighting controller, 100–277VAC |
| 76610R | CPD 3000 Light Controller (Europe) | Power line outdoor lighting controller, 100–250VAC |
| 72103R-442 | SmartServer 2.2 PL Professional | Versatile segment controller and smart energy manager that connects lighting controllers to the LumInsight CMS |
| 72103R-462 | SmartServer 2.2 PL Professional with External Coupling | Versatile segment controller and smart energy manager that connects lighting controllers to the LumInsight CMS |