WE ARE INNOVATION LEADERS

Our goal is to create positive environmental change through the development of innovative future-proof products and sustainable technology solutions.

Our award-winning products are designed with an emphasis on performance, energy efficiency, reliability, adaptability, and lowest cost of ownership. Our in-house research and development center is staffed by a team of design experts in the areas of optics, power supplies, adaptive controls, software design, mechanical design, and reliability engineering.

We continue to innovate and deliver new products to market including LED luminaires, components, accessories, and a full suite of networked lighting controls. Our design methodology is driven by modular, toolless, and future-proofed designs, all backed by industry-leading warranties.
DESIGNED WITH THE FUTURE IN MIND

NXT gives the right amount of light right where you need it. Available in a number of distributions with low glare, and high color contrast. NXT provides high-end street lighting at lower energy costs.

The modular design of NXT luminaires allows users to easily upgrade or replace light engines, power supplies, and surge modules without tools, in less than one minute. Light engines can be replaced in the field as LED efficiencies increase in the future, allowing users to prolong the life of lighting infrastructure, benefit from energy savings, and reduce total life-cycle costs. NXT also gives users the ability to easily change optical distribution patterns and colour temperature (CCT). NXT is ideal for roadway/street lighting, parking areas, bridges, and general outdoor area lighting applications.

NXT-C COMPACT SIZE BODY
- 12 LEDs
- 525, 700, 850, 1050, 1200, 1250 mA Drive Currents
- 4000K (Standard), 3000K & 5000K (Optional) CCT

NXT-M MEDIUM SIZE BODY
- 48, 60, 72 LEDs
- 350, 450, 525, 600, 700 mA Drive Currents
- 4000K (Standard), 3000K & 5000K (Optional) CCT

NXT-S SMALL SIZE BODY
- 12, 24, 36 LEDs
- 350, 450, 525, 600, 700 mA Drive Currents
- 4000K (Standard), 3000K & 5000K (Optional) CCT
1. UPGRADEABLE LIGHT ENGINE
Unplug the cable connector and release the light engine using the snap latches.

2. INTEGRATED MOUNTING STEP
Built-in steps with 2.5° increments allow for simple tilt adjustment up to ± 5°.

3. UPGRADEABLE POWER SUPPLY
Unplug the cable connector and release the power supply using the clips.

4. MOUNTING OPTIONS
2-bolt fitter (standard) & 4-bolt fitter (optional): 1.625" - 2.375" (42 - 60 mm) O.D. Tenons. Post-top mount option available.

5. DURABLE FINISH
Polyester powder-coat topcoat available in grey, bronze, or black.

6. UPGRADEABLE SURGE MODULE
Surge meets the requirements of ANSI C-High (10kV/10kA). Unplug the cables and release the surge module using the clips.

7. FIELD ADJUSTMENT SWITCH
Switch allows users to select 5 available drive currents (350, 450, 525, 600, & 700 mA). Not available with NXT-C.

8. ALUMINUM BODY
Single-piece, die-cast A160 aluminum.

9. GASKET/SEAL
IP66 rated protection against water and dust particles.

10. GLASS LENS
IK09 rated.

11. QUICK ACCESS LATCH
Tool-less entry.

ARRA COMPLIANT
NXT-Lite incorporates award-winning performance, reliability, and future-proofing features that utilities and municipalities have come to expect at a competitive price. NXT-Lite is utility-friendly and designed for roadway applications requiring up to a 400W high pressure sodium replacement.

NXT-Lite luminaires feature a tool-less, replaceable light engine and a door-mounted power supply. Luminaires are available with multiple drive currents and an optional DALI driver.

**NXT-LITE-M MEDIUM SIZE BODY**
- 60 LEDs
- 300, 350, 450, 525, 600, 700, 810, 950 mA Drive Currents
- 4000K (Standard), 3000K (Optional) CCT

**NXT-LITE-S SMALL SIZE BODY**
- 8, 16 LEDs
- 300, 350, 450, 525, 600, 700, 850, 1050 mA Drive Currents
- 4000K (Standard), 3000K (Optional) CCT
1. **UPGRADEABLE LIGHT ENGINE**
   Unplug the cable connector and release the light engine using the snap latches.

2. **DOOR HINGES**
   Release the removable door by sliding the door pins out of the hinge slots.

3. **INTEGRATED MOUNTING STEP**
   Built-in steps with 2.5° increments allow for simple tilt adjustment up to ± 5°.

4. **MOUNTING OPTIONS**
   2-bolt fitter (standard) & 4-bolt fitter (optional) 1.625” - 2.375” (42 - 60 mm) O.D. tenons. Post-top mount option available.

5. **QUICK ACCESS LATCH**
   Tool-less entry.

6. **DURABLE FINISH**
   Polyester powder-coat topcoat available in grey.

7. **SURGE MODULE**
   Surge module which meets the requirements of ANSI Extreme (20kV/10kA).

8. **ALUMINUM BODY**
   Single-piece, die-cast A360 aluminum.
The Lumen IQ™ Controls Suite adds intelligent lighting capabilities to your existing and/or new street lighting inventory. Lumen IQ provides users with a range of control options, from basic networked lighting to more advanced Smart City/Smart Grid enabled solutions. Whatever your application, we have a solution to suit your specific requirements and budget.

The Lumen IQ system saves you energy. It stores all the information you need to make informed decisions regarding your lighting infrastructure. Remotely monitor all your connected lighting assets, set lighting schedules and generate detailed status reports, even cut down on maintenance costs with improved planning and effectiveness.

The Lumen IQ Central Management System (CMS) is a web-based portal and interface which gives you control of your street lighting assets and sensors. Our CMS software consists of many powerful and useful tools to reduce energy costs by an additional 10 - 25% (on average).

The Lumen IQ CMS is a powerful central management system with lots of useful tools, all tied together with a modern and responsive user interface. Included features: Scheduling, On-demand, Asset Inventory, Alarms and more.

Lumen IQ is currently in use by municipalities and utilities around the globe.
SMART CITY
SYSTEM BENEFITS

ATTRACTION RETURN
ON INVESTMENT

Energy savings
Our wireless lighting controllers allow energy savings of up to 25% on top of a switch to LEDs or additional savings up to 50% with TSP SafeSense (pg 14-17).

Lower maintenance costs
An overhead view of all your cities lighting assets and their status on a map allows for big maintenance savings. There is no need for maintenance patrols. Utilizing the CMS notifications ensures maintenance crews are only on site when needed. Analytics built into the CMS can anticipate luminaire life cycles so you can be prepared.

INSTALLATION & MAINTENANCE

Simple installation
Installing our controllers is easy because they don’t require changing the existing wiring. Controllers can be installed on most streetlight receptacles.

Over-the-air support
Carry out fast firmware updates and receive accurate diagnosis thanks to two-way over-the-air support.

Efficient maintenance
Combining lighting controllers with CMS software allows simpler, more efficient maintenance. Thanks to the status reports, maintenance personnel will not have to carry out any emergency inspections.

CITY WELL-BEING

Reduced CO₂ emissions
Our lighting controllers help lower the energy consumption and CO₂ emissions. This creates a healthier, more sustainable living environment.

Increased safety
Schedules defined in the CMS ensure light levels always meet light level standards set by the IES (The Illuminating Engineering Society).

Comfortable light levels
At peak hours lights run at sufficient levels and dim down to low levels late in the night, cutting down on light pollution and light trespass.

ABSOLUTE CONTROL

Our software allows remote configuration, monitoring, management and control of all your lighting assets, providing up-to-date information.

INTUITIVE USER INTERFACE

View your entire lighting infrastructure through a single dashboard. Smart analytics and simple charts will help you make decisions about the lighting assets.

AUTOMATIC FAILURE REPORTS

Identify several lighting-related faults and automatically send failure reports, which results in reduced maintenance costs and extended luminaire lifetime.

ACCURATE + DATA ONDEMAND

Data and analytics are generated by individual light point or by group. Accurate and up-to-date data means you can make the most informed decision possible.

MAP-BASED VISUALIZATIONS

Get a visual sense of your network in an instant. Lighting assets are represented graphically on an integrated map. On board GPS within controllers insures accurate placement. Locate, monitor and control individual or multiple lighting points with ease.

LARGE NETWORK

All communication between field devices access points, and CMS utilize encryption. Strong encryption networkwide ensures your data stays secure.

CUSTOMIZABLE REPORTS

Run standardized reports on luminaire energy consumption, energy savings, GHG emission savings, burn hours etc. You can also customize and save your own reports tailored to your preferences.
TSP SMART SENSOR SOLUTION

TSP (Toolless Sensor Platform) is a new and innovative lighting control platform. Adding TSP to your network lighting controller is your gateway to the Smart City. Streetlights equipped with controls saves you energy by using the precise amount of energy you need and accurately measures every watt used. In addition to controlling your streetlight TSP provides the ultimate platform for integrating Smart City sensors into your infrastructure.

With the TSP’s modular design and open platform, you’ll be always prepared for the future of sensing capabilities. TSP opens the door to countless future sensor integrations from LRL and 3rd party developers. The future of Smart City sensors is coming fast and TSP prepares you for all of Smart City technology has to offer now and in the future.

TSP takes advantage of a vast network of streetlights. The ubiquity of streetlights allows for the placement of sensors just about anywhere. Streetlights provide all the necessary power via C136.41 standard receptacles, so there is no need to create new grid connections. Additionally there is no need for custom brackets and mounts, unlike traditional city sensors.
TSP + SAFESENSE
MOTION DETECTION

SafeSense is a public safety sensor made for the TSP. SafeSense is meant to improve public safety through vehicle and pedestrian sensing in the areas of lighting, traffic and law enforcement.

SafeSense uses radar based detection to identify pedestrian and vehicle traffic. SafeSense activates near by neighbor lights only when they are needed, lighting the way for vehicle and pedestrian traffic. When SafeSense detects human presence lights increase to 100% and decrease to 20% when no one is around.

SafeSense gives you the benefit of low energy usage with zero compromise of reduced light levels.

- **AUTOMATIC**
  SafeSense motion controllers automatically illuminate with human or vehicle presence. SafeSense is also capable of tracking traffic volume.

- **ADVANCED HUMAN DETECTION**
  TSP filters out non-human movement, like that of animals or wind. Luminaires will only react to human activity, e.g. to pedestrians, cyclists and cars.

- **WEATHER RESISTANCE**
  TSP lighting controllers were developed to withstand harsh outdoor environments. IP66 sealed.

- **ADVANCED SENSOR POSSIBILITIES**
  TSP can act as an enabling platform to unlock new applications, or enrich data to support existing solutions/applications. LRL will work with any sensor provider to help them design a TSP compatible sensor. Future-proof.

- **FAILPROOF**
  In an unlikely case of a system failure, lamps will return to the brightness of 100%.

- **FULL REMOTE MANAGEMENT**
  You can view and control all your lighting assets through our own Lumen IQ software.

- **EASY TO INSTALL**
  TSP controllers are easily installed. Installation only takes 30 seconds. Controllers can be integrated easily into the existing lighting infrastructure. Compatible with any luminaire receptacle.

- **TIMELY NOTIFICATIONS**
  Receive all the updates concerning your lighting network, as well as automatic status updates or failure alerts, via e-mail or our CMS.

- **PUBLIC SAFETY SUPPORT**
  SafeSense detectors will target “hot zones” for speeding by using location and time of day data. Accurately deploy resources and improve policing efficiency and public safety by reducing speeds in unsafe areas.

- **TRAFFIC MANAGEMENT**
  SafeSense will provide 24/7/365 traffic data collection for import into traffic management and planning systems. Move beyond intersections, to see what is driving intersection traffic volumes.