

LUMECON

DETROIT  
SERIES





## Purpose Built to Meet the Most Demanding Lighting Requirements

### Industry First Thermal Design

Lumecon ETD™ System: The enhanced thermal dissipation system uses thermally bonded light engines to provide maximum thermal dissipation to the fixture exterior to ensure long life. The LED light engine panel; uniformly coated with a UV-stabilized acrylic polymer resin that meets MIL and ASTM dielectric standards to protect the light engine panel from moisture and corrosion. Lumecon tests each light engine to UL, and IPC standards for flammability, moisture resistance, and thermal shock.

### 40kV Surge Suppression Standard

Thermally protected 40kV varistor type surge suppressor is included and meets ANSI C136.2-2015: Extreme Level. It also meets IEC61643-11 Class II / EN61643-11 Type 2 and US Dept of Energy MSSLC Model Spec for surge protection. The device; wired in series with the luminaire input power to interrupt power to the luminaire when consumed, protecting the LED power supply and circuit boards from additional electrical surges.

### Unmatched 10 Year Performance Warranty

Backed by the industry's only performance guarantee, Lumecon warrants the light output from dropping below 30% of its original production for ten years.



## Our Process Begins with Sustainability

### Envirocron™ Extreme Protection Edge Powder Coating

The Lumecon, Detroit Series products; coated using PPG Envirocron™ Extreme Protection Edge Powder Coating, an advanced powder coating technology that delivers exceptional corrosion protection. The unique patented polyester paint product provides maximum protection at the locations where all other paints begin to fail - at the edges - providing 20+ microns of paint at all sharp edges, where most other paints are only 2 microns or even less. The base aluminum material; prepared using an environmentally-friendly non-chrome 2-step surface cleaning and passivation process. This process results in a more durable conversion layer than traditional chromate conversion coatings and allows maximum adhesion of the powder coating to the aluminum substrate. These unique coating technologies provide a finish with unmatched durability and superior gloss retention for years of service in harsh environmental conditions.

### Durable Die-Cast Aluminum Housing

Rugged die-cast aluminum housing and belly pan feature an integrated heat sink and driver compartment built into the fixture design. Cast in Muskegon, MI, USA.

### Marine Conditions, Road Salt, and Harsh UV Exposures

Luminaire and finish endurance tested high ambient salt fog conditions as defined in ASTM Standard B117. The light engines and housing are sealed against moisture and environmental contaminants to IP66.

### Customizable Colorways Suitable for all Locations

Regional and local branding opportunities where color matters. Pick your color!



### Optimized Lens Design

Lumecon meticulously engineered premium acrylic optical lenses to maximize light distribution and uniformity while minimizing cost. Our arrays distribute light at least 21% further and with 29% more uniformity than leading competitors. Lumecon custom lenses create a uniform, well-lit environment that mitigates illuminance "hot spots" and use less wattage than typical LED area lights.

*Our injection-molded optics harness and focus the light to place it where you need it, while minimizing spillover into other areas.*



## Inherent Eco-Friendly Considerations

### Backlight Louvers

Lumecon's Detroit Series uses a creative way of regulating unnecessary light and reducing glare. Specially made Backlight Louvers are low profile and work with each light pattern to minimize light trespass and reduce glare behind the fixture. Most commonly used when lighting the perimeter of parking lots or when residential housing is nearby.

### Dark Skies Friendly

Modern society requires outdoor lighting for a variety of needs, including safety and commerce. Lumecon advocates the judicious use of required lighting. To minimize the harmful effects of light pollution, lighting should:

- Only be on when needed
- Only light the area that needs it
- Be no brighter than necessary
- Minimize blue light emissions
- Be fully shielded (pointing downward)



*Designing responsible outdoor lighting includes choosing the right color temperature LEDs, minimizing glare, reducing light trespass, and diminishing night sky pollution.*

### American Medical Association and International Dark Skies Association Compliant for reduced short-wavelength blue light in residential and environmentally sensitive areas.

Lumecon Product Designers know that the color of light is critical. Higher Kelvin Temperature LED contains large amounts of short-wavelength blue light in its spectrum. Exposure to blue light at night has shown to harm human health and endanger wildlife. The AMA and IDA recommend using lighting that has a color temperature of no more than 3000 Kelvins. The full Detroit Series line-up has 2200K, 2700K, and 3000K Kelvin temperature LED arrays standard.



### Post-consumer waste packaging ensures world-class sustainability.

All of the corrugated packaging used to ship and display Lumecon's Detroit Series line of LED fixtures is made entirely from post-consumer material. Lumecon has created boxes and box inserts for all of our Detroit Series products comprised of 100% recycled boxes and paper with no virgin material content. The paper fibers that make up our packaging can be recycled and reused to create new packaging up to 7 times during their life cycle. Our incoming corrugated packaging is compacted in our factory and shipped to our packaging supplier, where original boxes are made rather than discarded. Not only do Lumecon's new Detroit Series LED fixtures conserve energy while lighting up your parking lots and walkways, but they also arrive in packaging that preserves trees and keeps material out of landfills.



## American Made in Support of a Strong Economy via Quality Product Production



### Die-Cast

The build/construction process begins with die-casting. Our colleagues at Great Lakes Die-Cast right here in Muskegon, Michigan, take a hands-on approach to ensure precise craftsmanship. Great Lakes Die-Cast employs over 83 employees giving vital stability to Muskegon and surrounding areas. The primary tool that creates the Detroit Series is being hand polished in the picture here before casting its first unit.



### Injection Molding

Lumecon, in conjunction with Charlevoix, MI-based Lexalite, developed Precise prismatic lensing with a 20 yr. Warranty against yellowing for the Detroit Series Forward Throw Wallpack. A.L.P. Lexalite(r) is an industry-leading provider of engineered thermoplastic injection molded components. Long recognized for designing and manufacturing the finest optical lighting components. The A.L.P. Lexalite Charlevoix, MI facility is ISO 9001:2015 certified for the manufacture and assembly of plastic parts and employs over 53 full-time employees.



### Assembly

Lumecon, based in Farmington Hills, Michigan, established in 2006, employs over thirty-five individuals who have helped design, build, source, and finally assemble and ship the Detroit Series Light fixtures. Thirty-five individuals and their families are the reason for Lumecon's existence and success. Lumecon takes great pride in sourcing and manufacturing over 80% of our product content right here in Michigan and several other locations all within the United States to help others offer full-time, good-paying, stable jobs.



### SUPPORT LOCAL

- ✓ Product Development - Walled Lake, Michigan
- ✓ Die-Casting - Muskegon, Michigan
- ✓ Injection Molding - Charlevoix, Michigan
- ✓ Powder Coating - Flint, Michigan
- ✓ Polyurethane Gasketing - Wixom, Michigan
- ✓ LED Light Engine Manufacturing - Clinton Township, Michigan
- ✓ Final Assembly - Farmington Hills, Michigan
- ✓ Box and Packaging Supplies - Livonia, Michigan

*“When we set out to create our own LED line-up, we not only wanted a Detroit inspired design but we wanted to utilize American made components to support local, state and nationwide commerce.”*

*Bob Hahn, President  
Lumecon*

**Our Motor City inspired Detroit Series is a high-performance family of products including wall packs, street and area lighting, and flood lights.**

Standard options include all typical IES light distribution patterns, mounting configurations, a wide range of wattages with dimming drivers, compatible photocell sockets, energy-efficient controls and custom colors. Every product meets DLC standards and feature precision best-in-class optics and a high efficiency internal heat sink housing.



LDS-LFC  
Full Cutoff

### WALL PACKS

The LDS Wall Packs offer a bold, rugged Detroit inspired design that performs efficiently and reliably in any outdoor environment. The tiered wattage / lumen packages deliver exactly the light output needed for the job without wasting energy or efficiency.

- Building Facades
- General Security
- Storage Areas
- Tunnel
- Entry Door



LDS-FTM  
Mini Wall Pack



LDS-FT  
Forward Throw



LDS-LAL  
Large Area Light



LDS-SAL  
Small Area Light

### STREET & AREA

The LDS Street and Area Lights combine a sleek fixture design with energy efficient performance that casts directional light rays from within a set boundary. Safety is the number one concern in night time exterior lighting. We offer a wide range of optical patterns, color temperatures, lumen packages, and mounting configurations to optimize safety, maintenance and efficiency.

- Parking Lots
- Roadways
- Pathways
- Industrial Parks
- Commercial Lots

### FLOODS

The LDS Flood Lights are available in small or large sizes casting the desired amount of directional illumination in either a wide or narrow beam. With a selection of beam patterns, color temperatures and lumen packages, plus their optical aiming capability and mounting flexibility, flood lights provide the perfect solution for applications like:

- Building Facades
- General Security
- Athletic Fields
- Airports
- Industrial Parks



LDS-SFL  
Small Flood Light



LDS-LFL  
Large Flood Light



The LDS utilizes the Lumecon ETD™ Thermal Design backed by a 10 year performance warranty, protected against surge with a 40kV extreme surge suppression system and is inspired, designed, engineered, assembled and shipped right here in the USA, with the most US content possible.

**American Made Housing**

Rugged die cast aluminum housing and belly pan featuring an integrated heat sink and driver compartment built into the fixture design. Cast in Muskegon, MI, USA.

**Lumecon ETD™ System**

The enhanced thermal dissipation system engines are thermally bonded to provide maximum thermal dissipation to the exterior of the fixture to ensure long life.

**American Made LED Light Array**

To protect the light engine panel from moisture and corrosion, the LED light engine panel is uniformly coated with a UV stabilized acrylic polymer resin that meets MIL and ASTM dielectric standards, UL, and IPC standards for flammability, moisture resistance and thermal shock. Populated and conformal coated in Michigan, USA.

**Finish**

Die-cast aluminum housing with 60% gloss polyester powder coat finishes for maximum durability. The base aluminum material is prepared using an environmentally-friendly non-chrome 2-step surface cleaning and passivation process. The process results in a more durable conversion layer than traditional chromate conversion coatings and allows maximum adhesion of the powder coating to the aluminum substrate.

**Photo-Controls**

The LDS Line-up has a wide assortment of control options. Dusk to dawn controls include 10-yr rated button-type or NEMA twist-lock photocells and 3- or 7-pin receptacles.

**Custom Optics**

Lumecon meticulously engineered premium acrylic optical lenses to maximize the distribution and uniformity of light while minimizing cost. Our arrays distribute light at least 21% further and with 29% more uniformity than leading competitors. Lumecon custom lenses create a uniform, well-lit environment that mitigates illuminance "hot spots" and use less wattage than typical LED area lights.

**Surge Protection**

Thermally protected, self-modulating, multi-strike, 40kV varistor type surge suppressor is included and meets ANSI C136.2-2015: Extreme Level. It also meets IEC61643-11 Class II /EN61643-11 Type 2 and US Dept of Energy MSSLC Model Spec for surge protection. The device is wired in series with the luminaire input power to interrupt power to the luminaire when consumed, protecting the LED power supply and circuit boards from additional electrical surges.

**Wattstopper Motion Control**

The LDS Street and Area lights are available with Wattstopper Occupancy Sensing for motion control. This powerful controls platform provides out-of-the-box basic motion sensing with photocell functionality and is suitable for mounting heights up to 40 feet. No commissioning is required when using factory default settings that provide basic stand-alone motion occupancy dimming that is switched on and off with a built-in photocell.

**LED Lifetime**

All LEDs are rated for a minimum of 100,000 hours of continuous operation at ambient outdoor temperatures from -40°F/-40°C to 115°F/46°C.

**IP66**

The light engines and housing are sealed against moisture and environmental contaminants to IP66.

**Vibration rated - per ANSI C136.31**

100,000 cycles 3G vibration. Rated Mountings: Include MAS, MAR, TM, SF, SB.

**EPA**

The low-profile design results in a low Effective Projected Area, allowing pole optimization.

**Salt Spray Tested**

Luminaire and finish endurance tested elevated ambient salt fog conditions as defined in ASTM Standard B117.

**Buy American Act**

These products are assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS, and DOT regulations.

**Certification Data**

ETL Listed to UL 1598, UL 8750 for Wet Locations. \*Full compliance and test documentation is available for TM-21, LM-79, LM80, ETL Listing to UL1598 and UL 8750. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [dcl.com](#) to confirm which versions are qualified.



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Note: Specifications and photometric data are subject to change at any time without notice.  
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