



2020 CATALOG



Lumecon, LLC • 23107 Commerce Drive • Farmington Hills, MI 48335
248.477.5009 • lumecon.com



Transforming Your Perception Of Life Through Creative Illumination.



Founded in 2006, Lumecon is a proud manufacturer of high quality LED lighting that's affordable, creative and built to last. We continually support our local communities by sourcing from the brightest suppliers to create meaningful relationships with those around us. These relationships allow us to innovate LED technology, grow our people and provide world class service which exceeds the expectations of our customers. All products carry the Lumecon ETD™ (Enhanced Thermal Dissipation) System, 20kA/40kV Surge Protection and an Industry Leading 10-Year L70 All Parts Warranty to protect our customers investment.

Contact your local Lumecon Agent to see how our team can make your next project a success.



2020 Catalog

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3 Made in Michigan

Pure Production

Lumecon is proud of Michigan and our Michigan Partners. Michigan is number one in automotive-related jobs and businesses and a leader in the global mobility community. Assembly plants manufacture 28 different cars and trucks. The automotive lighting market is expected to grow to over a \$35 Billion market by the year 2022. It is this LED expertise that Lumecon is able to tap to purchase and manufacture top quality LED light engines and supporting product to produce high quality LED Lighting fixtures that will last for years to come.

- Michigan Made Technology
- Lumecon ETD™ System
- 20kA/40kV Extreme Surge Protection
- Industry Leading 10-Year L70 All Parts Warranty
- Meets Buy American requirements within the ARRA
- Complimentary Photometric Services
- Retrofitting Services



Our Process Begins In Michigan

ALUMINUM DIECAST

Lumecon Detroit Series fixtures start with the diecasting process in Muskegon, MI. Diecasting is a metal casting process that is characterized by forcing molten metal under high pressure into a mold cavity. The mold cavity is created using two hardened tool steel dies which have been machined into shape and work similarly to an injection mold during the process. Lumecon uses the diecasting process to assure an excellent surface finish and dimensional consistency assuring durability along with a consistent fixture look. The castings are finished with a TGIC polyester powder coating for maximum weather and corrosion resistance.



INJECTION MOLDING

Based in Charlevoix, MI our partner uses Optical Molding Process which is a specialized form of injection molding for lighting optics. Several of the Lumecon products offer a prismatic acrylic lens featuring precise prisms achievable only through the optical molding process. The prisms provide pleasing daytime "prismatic sparkle" and provide excellent uniformity, light distribution and efficiency for nighttime performance.



LED PLACEMENT

Lumecon LED light engines are produced in the Detroit area, home to several highly qualified suppliers who have the ability to manufacture a Lumecon-designed thermally bonded LED light engine panel to provide maximum thermal dissipation to the exterior of the fixture and ensure long life. To protect the light engine panel from moisture and corrosion, the complete face of the LED light engine panel is uniformly coated with a UV stabilized acrylic polymer resin that meets MIL and ASTM dielectric standards and UL and IPC standards for flammability, moisture resistance and thermal shock. This technology boasts the most thermally-efficient light engine design in the LED lighting industry.



Decorative Solutions

Patented External Heat Sink Management System

Lumecon's decorative post-top fixtures utilize our patented external heat sink management system, which increases the overall life of the fixture. A custom tooled prismatic lensing eliminates the "points of light" commonly associated with LED decorative globes. Each post-top fixture that leaves our warehouse has been rigorously tested to ensure proper illumination performance that lasts.

LEDs are mounted to the inside of the fixture trim ring which serves as a heat sink to ensure optimal heat dissipation. This type of mounting allows for both Type 5 (standard) and Type 3 light distribution patterns to be offered.

Our two-piece acrylic lens post top features precise prisms achievable only through injection molding. The prisms provide pleasing daytime "prismatic sparkle" and provide excellent uniformity, light distribution and efficiency for nighttime performance. The globe carries a 20 year warranty which includes resistance to yellowing as we define as having a yellowness index of less than 7.

There are also two options for limiting uplight that is emitted from the fixture. The perforated light lid is a polished reflector above the LEDs that limits uplight to approximately 30% in the upper globe. The cutoff light lid is a solid polished reflector that virtually eliminates light to the upper globe.

All decorative fixtures can come with an optional 7-pin ANSI C136.41 dimming receptacle for true "plug and play" installation of most wireless control modules. The receptacle is located inside the top of the fixture, allowing the wireless control module to be concealed yet still have clear site of communication with other modules or repeaters.

Lumecon's Decorative fixtures have been engineered to optimally perform in Main Street applications.

The decorative lineup takes advantage of an external heat sink ring, which allows for:

- Maximized Heat Dissipation
- Increased Energy Efficiency
- Lowered Fixture Temperatures
- Decreased Maintenance Costs
- Increased Fixture Lifetime



Economic Lighting Solutions for Everyday Applications

www.lumecon.com

Design Your Own Decorative Fixture

We make it easy to customized your own lighting project. The L-RETRO-DG LED Decorative Globe kit offers service professionals an economic, easy to install solution to safely upgrade HID luminaires to LED or build a new Decorative Array using our easy pick list below.



LROF / LROF-NF RING OF FIRE™

There is no other LED post-top like our patented LROF. This decorative post-top fixture utilizes our patented thermal integrated trim ring to maximize heat dissipation. Available in multiple wattage versions, each model delivers superior lumen output to illuminate your next Main Street project. As with all Lumecon products, the LROF carries an industry leading 10 year/ L70 Performance Based Warranty.



LDS-ROF DETROIT SERIES RING OF FIRE™

This fixture is the same fixture as the LROF but has obtained approval from the Design Lights Consortium making it eligible for Utility incentives and rebates. Available in multiple wattage versions, each model delivers superior lumen output to illuminate your next Main Street project. As with all Lumecon products the LDS-ROF carries an industry leading 10 year/ L70 Performance Based Warranty.



LBOF / LBOF-NF BALL OF FIRE™

The Ball of Fire is an example of lighting engineering at its finest. This decorative post-top utilizes our patented thermal integrated trim ring for maximize heat dissipation. Available in three wattage outputs, let the look of this fixture speak for itself and install one today. As with all Lumecon products, the LBOF carries an industry leading 10 year/ L70 Performance Based Warranty.



L35W THIRTY-FIVE WEST

The Thirty-Five West is an 18.5" spherical prismatic injection molded globe employing Lumecon's patented external heat sink management system built into the aesthetically stylish decorative cage. The globe is injection molded in Charlevoix, MI, the casting is done in Muskegon, MI and the design and final assembly happens right here in Farmington Hills, MI, making the Thirty-Five West Proudly American.



LBOL2 WALKWAY BOLLARD

The LBOL2 walkway bollard is built with a robust die-cast aluminum housing and vandal resistant polycarbonate lens. Available in one wattage version and equivalent to a 100W HID, the LBOL2 is a perfect solution for lighting entrance walkways and for general illumination purposes. As with all Lumecon products, the LBOL2 carries an industry leading 10 year/ L70 Performance Based Warranty.



Select an Engine



Available in three output versions, the L-RETRO-DG Retrofit Kit proves to be the perfect LED conversion or new solution for your next Decorative Globe project!

| | | | |
|-----|----------|----------|---------|
| 35W | 175W HID | 4,294 Lm | 118 LPW |
| 45W | 250W HID | 5,311 Lm | 118 LPW |
| 55W | 250W HID | 6,434 Lm | 116 LPW |

Available Voltage Options:

| |
|-------------|
| 120v - 277v |
| 347v - 480v |

Available Color Temperature Options:

| |
|-----------------------|
| WW - Warm (2,700K) |
| OW - Warm (3,000K) |
| NW - Neutral (4,000K) |
| CW - Cool (5,000K) |



Select a Globe

Choose between two-piece injected molded prismatic globes or one-piece textured blow molded acrylic and polycarbonate globes.

Two-Piece Injection Molded Prismatic Acrylic Globes

The two-piece acrylic lens post top features precise prisms achievable only through injection molding. The prisms provide pleasing daytime "prismatic sparkle" and provide excellent uniformity, light distribution and efficiency for nighttime performance. The globe carries a 20-year warranty which includes resistance to yellowing as we define as having a yellowness index of less than 7. There is one option for limiting up light emitted from the fixture, the cutoff light lid is a solid polished reflector that eliminates light to the upper globe.



One-Piece Textured Blow Molded Acrylic and Polycarbonate Globes

Our one-piece textured blow molded globe is designed specifically for LED in acrylic that has been impact modified and UV resistant with continuous operating temperature to 90°C and transmittance of 90 to 94% (application dependent). The acrylic comes in clear, white or LD acrylic (Visual Comfort). Some models available is polycarbonate with 88% transmittance.





Select a Fitter

The Aluminum Fitter bases finish the globe with elegance. High grade cast aluminum fitters are powdered-coated in a gloss black for durability. Custom colors are always an option. Choose between 8" or 9" necks for either 3" or 4" poles.



Part Number: 740-5000
8" Neck with 3" OD Pole



Part Number: 788-0975
8" Neck with 4" OD Pole



Part Number: 740-5001
9" Neck with 3" OD Pole



Part Number: BH2
8" Neck with 3" OD Pole



Select a Finial

Add a distinctive accent to your globe with a unique finial. Produced from sand-cast aluminum, our finials are powder-coated gloss for durability. Custom colors are available.



SPIKE FINIAL



FLEUR-DE-US

PICK A FIXTURE DESIGN WORKSHEET

Wattage _____

Voltage _____

Color Temperature _____

Globe Part Number _____

Fitter Part Number _____

Finial Part Number _____

For ordering information and part numbers, go to lumecon.com/products/globes/

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Lumecon Pole Systems

Take Your Lumecon LED Fixture To Completion With Our Pole System Solutions

STEEL

Lumecon offers a line of commercial and industrial steel poles in both square and round options. Our standard steel pole shaft is a one-piece carbon steel construction with uniform wall thickness and fabricated from a weldable carbon steel structural tubing which conforms to ASTM A-500 Grade B standards with a minimum of 46,000 psi.

ALUMINUM SMOOTH

Lumecon's smooth aluminum poles will take the aesthetics of your next street-scape project to the next level. Extruded from 6063 alloy aluminum tubing to exacting standards and heat treated to produce a T6 temper, you will be sure to find the perfect combination to give your street-scape the exact look it's after. The smooth aluminum poles are available in both square and round options.

ALUMINUM FLUTED

Our decorative fluted poles have a gloss black powder coat finish and are complemented with a standard high-grade cast aluminum base cover to give your downtown project the classic contemporary look it is after. The fluted poles are extruded from 6063 alloy aluminum tubing to exacting standards and heat treated to produce a T6 temper.

All poles come standard with: anchor bolts, hand hole covers, top tenon & decorative base covers.



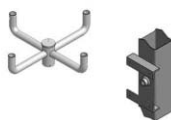
For more information, contact your local sales rep or email: sales@lumecon.com

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www.lumecon.com

BRACKETS

We supply a wide array of cross mounted, post-top mounted, and up sweep brackets to fit any of our poles and some existing poles. Our standard bracket selection is just the beginning; we can build custom brackets to meet any need when provided the necessary information. All brackets can be powder coated in any of our 16 standard colors – with custom color matches always available.



ACCESSORIES & OPTIONS

Our poles can accommodate almost any type of accessory, from cameras and speakers to sensors and flags, and we have a long list of options to meet your specific needs – from the standard coupling or plate to banner arms and flag or flower pot holders. Our wide array of fixture brackets allow for multiple mounting arrangements to be incorporated into a single project.



DECORATIVE BASES

Our decorative product line makes it easy to meet any period or contemporary lighting specification. We offer decorative pole packages that include our popular Clarkston, Liberty, Patriot and Independence aluminum base castings. Other base castings are available as standalone options. We also carry decorative pole-top finials, and a wide variety of decorative brackets to fit any application.



Retrofit Solutions

Engineered to Last

At Lumecon, we recognize a one size fits all solution doesn't apply for every lighting project. This is why we developed a dedicated retrofit team to design and build custom LED lighting solutions. Every retrofit job that enters our facility receives the same attention to detail to warrant our industry leading 10-Year L70 All Parts Warranty. With a portfolio full of successful retrofit solutions, we continuously aim to provide a high level of expertise to create engineered lighting solutions that last.

The Lumecon process includes completely drawing in CAD the entire fixture, developing a custom kit reusing existing boss heads for attachment and heat sinking. A prototype is then created and bench-tested for proper thermal dissipation, light dispersion and overall aesthetics. The sample is then shipped to the customer for field evaluation, once approved Lumecon has all the data on-file to create and ship the custom order.

We pride ourselves on sourcing from the brightest suppliers, which allows us to innovate LED technology, grow our people and provide world class service which exceeds the expectations of our customers.

There is no limit to a Lumecon Retrofit Solution

- Area Lights
- Canisters
- Case Signs
- Pendants
- Post Tops
- Sconces
- Tear Drops
- Wall Packs



Economic Lighting Solutions for Everyday Applications

www.lumecon.com

Give Your Lighting a Second Life

Retrofit Kits are intended to upgrade current fixtures to Lumecon's LED technology. Installation is designed to be simple and efficient using existing hardware, requiring zero on-site drilling or fabrication.

Retrofit Advantages

- Energy Efficiency and Savings
- Reduced Operating and Maintenance Costs
- Saves Original Lighting Fixture Investment
- Rebates and Incentives
- Improved Security
- Less Light Pollution

Project Scope: Recessed Canister



Retrofit kit replaces a 150 watt Metal Halide Lamp with a 12W, 2700 Kelvin temperature warm white LED Solution with 80 CRI.



The Lumecon LED Custom made retro-fit kit contains a standard 20kA / 40kV MOV Surge Suppressor, a 120V line-dimming 12W power supply compliant with UL 1012 and 1310. The LED's are rated for a minimum of 100,000 hours of continuous operation at ambient temperatures from -40°F to 120°F.



This retrofit project of 50 existing recessed sloped canister lights saved the church over \$57.00 per light, per year and an overall maintenance savings of \$5000 over the next 5 years. Total 5 year savings of maintenance and energy of \$19,250.00!



What To Expect

- Easy to follow step-by-step instructions and form
- A thorough design team evaluation
- An assigned design engineer with dedicated 1-on-1 attention
- A target lead time for your prototype completion
- Responsive and proactive project communication

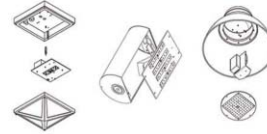


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LUMECON RETROFIT KIT REQUEST STEPS

STEP 1: IDENTIFY FIXTURES

Identify the light fixtures that are in need of an LED retrofit solution.



WHY RETROFIT WITH LUMECON?

- Cost effective LED replacement
- 10 Year L70 All-Parts Warranty
- Thermally tested solutions
- In-house team dedicated exclusively to the retrofit process
- Not all solutions are one size fits all

STEP 2: COMPLETE REQUEST FORM

Fill out Lumecon's quick and easy Retrofit Kit Request Form.

| | | | |
|------------------|----------------------|----------------------|----------------------|
| Job Date | <input type="text"/> | Project Quantity | <input type="text"/> |
| Customer | <input type="text"/> | Light Levels | <input type="text"/> |
| Job Name | <input type="text"/> | Mounting Height | <input type="text"/> |
| Application | <input type="text"/> | K-Temp | <input type="text"/> |
| Fixture Type | <input type="text"/> | Target LED Lumens | <input type="text"/> |
| Existing Wattage | <input type="text"/> | Distribution Pattern | <input type="text"/> |
| Existing Voltage | <input type="text"/> | | |

* Notes/ Goals:

STEP 3: SUBMIT REQUEST FORM & SAMPLE FIXTURE

Submit the Retrofit Kit request form along with a sample fixture for our R&D team to create a custom solution.

ITEMS TO BE SUBMITTED TO BEGIN RETROFIT PROCESS

- ☐ Request Form ☐ Sample Fixture ☐ Purchase Order

SEND TO:

Lumecon Retrofit Division
23107 Commerce Drive
Farmington Hills, MI 48335



* Lumecon requires a purchase order to begin work on any sample fixture.
The sample PO amount will be credited toward the entire job.

For more information on Lumecon's Retrofit Program, please email: info@lumecon.com or call 248.477.5009

STEP 4: RETROFIT SOLUTION TO BE CREATED

Lumecon's R&D Team will design and build a proper LED Retrofit solution for the provided sample.

WHAT DELIVERABLES WILL BE DESIGNED & RETURNED TO THE CUSTOMER:

- Test Data
- Installation Instructions
- 10 Year L70 All-Parts Warranty
- Shop Drawings
- Proof of Concept
- Project Specific Part Number

STEP 5: RETROFIT SOLUTION RETURNED

Customer will receive a completed retrofit sample for evaluation for their project.

SO WHAT'S NEXT?

- Final pricing will be presented to the distributor for the remainder of the project.
- Your retrofit design will be held on file at Lumecon for all future projects.
- Upon approval mock-up, PO submission releases your retrofit project.

A SAMPLE OF SUCCESSFUL LUMECON RETROFITS



Recreational Center

Exercise Facility

Pool and Training Facility



City of Fenton

City of Albion

City of Lexington



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The Lumecon Difference



LF-RB-25 and LF-LG-120 featured at the Detroit Zoo



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