

## OEM LIGHT ENGINE PROCESS

Let Lumecon's OEM Engineering Services design and manufacture the LED light engine for your luminaire. With your fixture and specifications for lumen output, wattage, optical distribution, and color temperature, our team of engineers and designers will develop a custom solution to meet your requirements. We can even include any optional add-on components you may need, such as 480V, battery backup, or even occupancy sensing or controls. We use our proprietary LED boards and optics in our designs, so there are no expensive tooling costs involved, but we can also tool custom solutions if required. All designs are prototyped and thoroughly tested to validate the performance meets or exceeds our engineering standards and your expectations. We provide you with the working prototype, detailed assembly illustrations, and field installation instructions if needed. All manufacturing of prototype and production kits occur at our facility in Farmington Hills, MI, and comes with Lumecon's 10-year performance warranty. Not sure how to navigate UL safety certification, LM-79 testing, DLC listing, or IDA certifications? Let us help you finish the project by handling all third-party testing and certification submittals on your behalf. Contact us for a quote today!

### EVERY DESIGN INCLUDES

- ✓ American Made Certification
- ✓ 10 Year Performance Warranty to L70, including driver
- ✓ 40kV Surge Suppression MOV (room permitting)
- ✓ Type V, IV, III, II Light Patterns available
- ✓ 2200K, 2700K, 3000K, 4000K and 5000K Temperatures
- ✓ 80 CRI Standard 90 CRI available
- ✓ Volume-based pricing (yearly blankets are accepted)



### 1

#### FIXTURE EVALUATION

Lumecon receives OEM's Fixture and we begin our detailed technical evaluation process.

- Create a CAD model of the OEM fixture (if CAD not available).
- Develop a light engine solution in CAD.
- Manufacture a light engine prototype.



### 2

#### PROTOTYPE TESTING

Thorough testing of prototype light engine to meet Lumecon's 10-year warranty standards.

- A technician checks the fit and inspects ease of installation.
- Perform in-situ thermal testing to validate performance to OEM requirements and 10-year lifetime rating.



### 3

#### DELIVERY STANDARDS

To insure ease of an independent installation, we include a prototype and detailed instructions.

- Create detailed spec sheet, factory assembly instructions, and field installation instructions (for field retrofitting, if required).
- Return fixture with prototype installed.



## SAMPLES

