

NORLUX[®]

CUSTOM SERVICES

CUSTOM LED LIGHTING SOLUTIONS

Light Engines | Systems | Fixtures

Norlux custom services provides unprecedented in-house engineering, manufacturing and design expertise for all LED lighting applications. We design and develop solutions for light engines, drivers, software systems, and custom fixtures. Continual collaboration throughout the design process ensures receiving your desired design and performance!

Engineered and assembled in the USA!

DESIGN

Our engineering expertise includes electronics, lighting, microelectronics assembly, optics, mechanical and system design. Our technical knowledge and problem-solving experience is oriented to complete your project efficiently and elegantly. Our large and growing engineering team is among the most qualified in the industry.

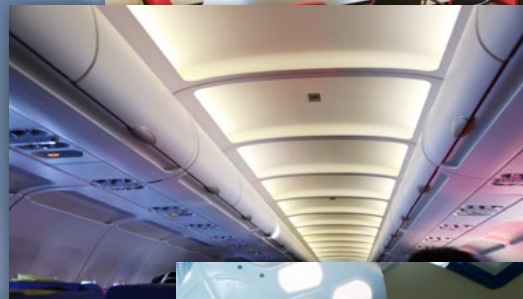
QUALIFICATION TESTING

Our Norlux brand services offers a wide variety of testing capabilities. Extensive electrical qualification and photometric measurements ensure the quality and durability of our designs. We test to make sure we meet your performance specifications and can provide you with a high level on confidence when submitting your fixture to UL, or any other certifying agency.

MANUFACTURING

We specialize in low-to-mid-size manufacturing volumes, but have the capacity for anything. From a project as simple as populating PCBs with LEDs to one as complex as a fully assembled horticultural fixture, we can accommodate your specific level of manufacturing

The high-capacity automated equipment on our production floor facilitates prototype, pre-production, initial stocking and production builds. The state-of-the-art ESD-controlled clean room in our Elgin facility provides us a microelectronics manufacturing environment safe for contaminant-sensitive materials such as raw LED die.



CAPABILITIES THAT MEET YOUR NEEDS

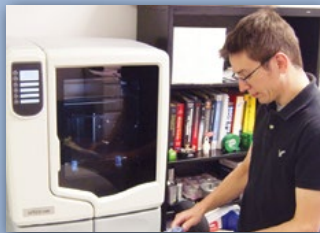
ADVANTAGES

Robust buying power and long-term supplier relationships enable us to procure components cost-effectively and quickly. Blanket ordering conventions help mitigate long lead times when planning production orders. Our centrally-located facility houses engineering, manufacturing, testing and quality assurance capabilities.

With everything **under one roof**, we bring flexibility and responsiveness to our customers' projects and applications. We're proud to assemble in the USA.

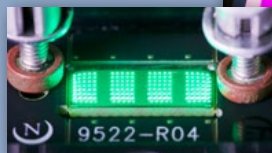
DESIGN/ENGINEERING

- 2-D & 3-D modeling
- Concept validation
- Driver & control design
- Electrical schematic design
- PCB layout
- Embedded Software
- Optical design
- SSL light engine design
- Thermal design



TESTING

- Automatic Test Equipment
- Thermal Shock Chamber
- Power Analysis
- Photometry
- Integrating Sphere



CUSTOMERS

Our OEM customers are passionate about design, quality and innovation. We're excited about LED technology. Together, we create energy-efficient and environmentally-friendly lighting products for the next generation.

- Architectural
- Horticultural
- Aviation
- Industrial, including UV and machine vision
- Medical

QUALITY ASSURANCE

- 100% light-up testing
- 5WHY analysis
- 8D preventive & corrective action
- Agency/regulatory approval (UL)
- DFMEA
- LED binning control
- Lot traceability
- PFMEA



MANUFACTURING

- High-speed SMT assembly lines
- Automated conformal coating
- Chip-on-board production line
- Driver production line
- Fixture-level mechanical assembly
- LEAN manufacturing facility
- Microelectronic fabrication
- Product assembly
- Quick-turn prototypes



Contact us today for a quote!