

Introduction to Elite Electronic Engineering, Inc.

FAA Airport Lighting Equipment Certification Program (ALECP)
Third Party Certification Body

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Program Administrator



Elite Electronic Engineering, Inc.
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Introduction

Elite Electronic Engineering, Inc.

Providing electromagnetic compatibility (EMC) and environmental (ENV) stress testing services since 1954



- Family-owned business with 80 employees
- 75,000 ft² campus
- Administrative, Testing, Certification, and full machine shop on campus
- ISO 17025 Testing Accreditation
- ISO 17065 Certification Body Accreditation



Introduction

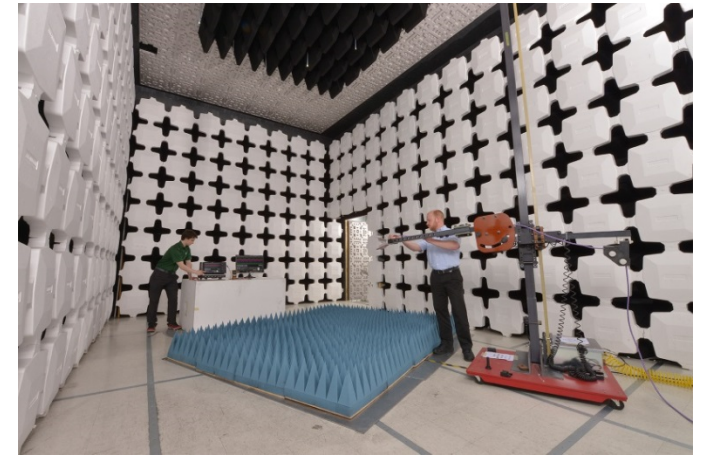
Full-service test and certification facility for aviation, automotive, military, electronics, and heavy equipment industries

EMC / Electrical Capabilities

- Conducted & Radiated Emissions
- Electrostatic Discharge (ESD)
- Current & Voltage Surges
- Indirect Lightning Effects

ENV / Mechanical Capabilities

- Vibration / Shock / HALT
- Temperature / Humidity / Altitude
- Salt Fog / Wind / Rain / Solar
- Tension / Load / Yield



Introduction

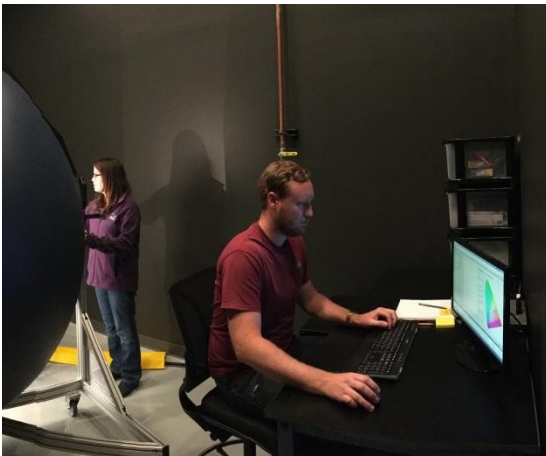
Full-service test and certification facility for aviation, automotive, military, electronics, and heavy equipment industries

Photometric Capabilities

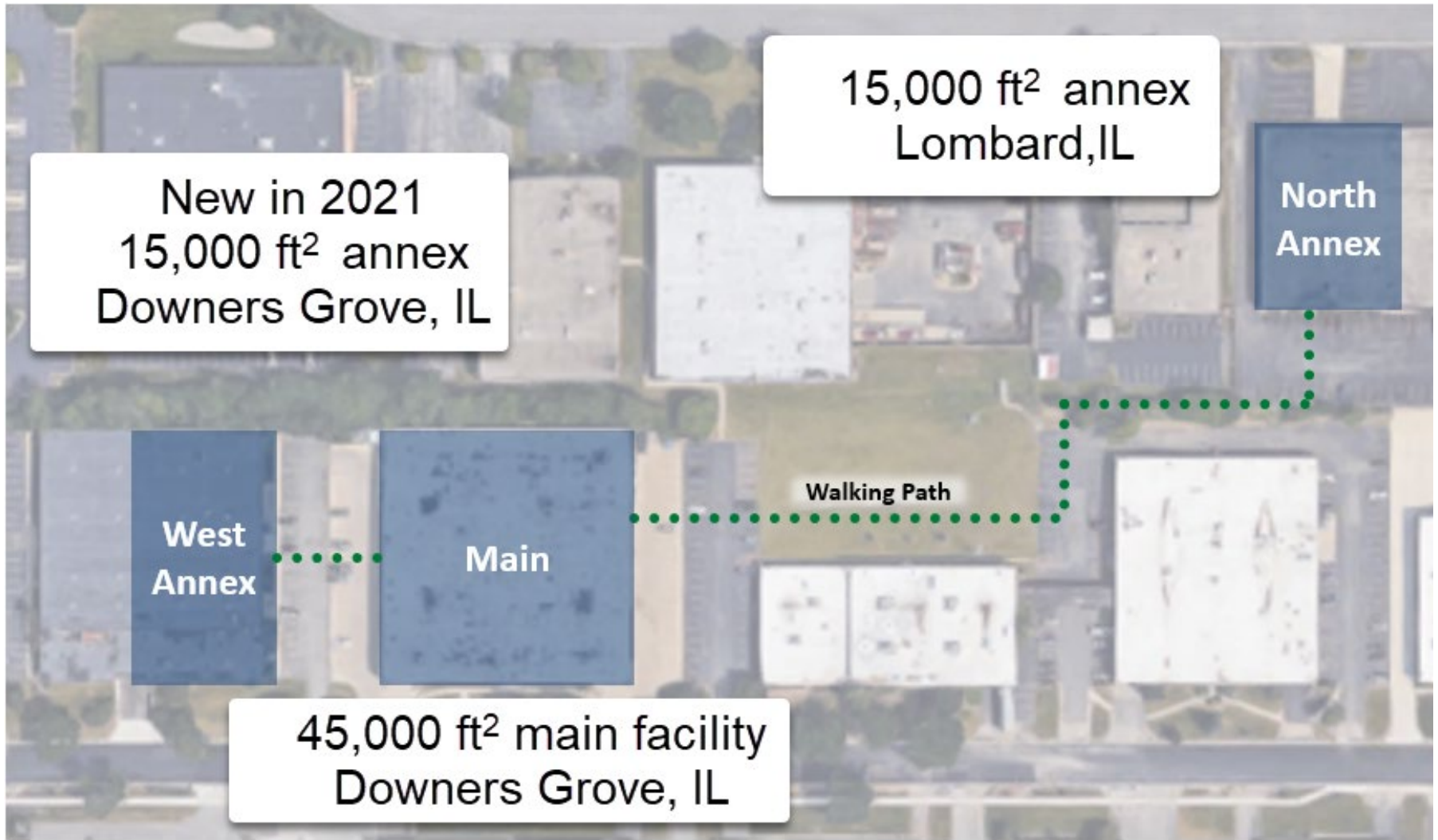
- Luminous Flux (lumen)
- Luminous Intensity (Cd)
- Effective Intensity (Cd)
- NIR Radiant Intensity (W/sr)
- Chromaticity / Color

Key Equipment

- Type A Goniometer / 64 ft Distance
- 2-meter Integrating Sphere
- Portable Spectroradiometers
- Steady / Flashing Measurements



Campus Layout



History

- **67 years as an Independent Testing Laboratory**
 - 67 years in EMC / Electrical Testing
 - 45 years in Environmental / Mechanical Testing
 - 4 years in Photometric Testing
- **21 years as a Certification Body**
- **ISO 17025 and 17065 Accreditations from A2LA and NVLAP**
- **Active in industry organizations and standards committees**
 - IESALC Fall Conference Exhibitor since 2015
 - IES Testing Procedures Committee
 - SAE Emergency Warning Lights Committee
 - IEEE, MIL-STD, RTCA, CISPR, CTIA, etc.

Key ALECP Personnel at Elite



Certification Staff



Brad DeGrave
FAA Program Administrator
Sr. Mechanical Engineer



Mark Gabalewicz
Certification Specialist
Sr. Mechanical Engineer



Jessica Kramer
Certification Specialist
Photometric Engineer



Kevin Halpin
Project Engineer
Technical Sales



Robert Bugielski
Technical Sales
Quality Manager
Sr. EMC Engineer



Michael Cosentino
Business Development Manager

Third Party Certification Body Roles

- **Per 150/5345-53D, Third Party Certification Bodies:**
 - Are accepted by the FAA to certify all L-types
 - Approve test plans and ensure test locations follow ISO17025
 - Evaluate equipment per -53D and respective Advisory Circulars
 - Issue initial and revised Certificate of Conformance
 - Ensure manufacturers maintain a suitable quality control program
 - Reviews modifications to equipment
 - Notify FAA of new and rescinded certificates

Current Program Statistics

- **Accepted by FAA in August 2020**
- **1 Licensed Manufacturing Facility**
 - (1 Pending)
- **0 Certificates Issued**

For follow up questions

<https://www.elitetest.com/>

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