Kenall products are tested to ensure they meet performance listings relevant to their intended end use. For complete details on specific product listings, please refer to each of the product feature sections within this guide.

**UL/CUL Listed** — A product bearing the UL mark is determined to have met the minimum requirements of the applicable product safety standards as certified by Underwriters Laboratories, LLC, a Nationally Recognized Testing Laboratory (NRTL). The “US” next to the mark indicates compliance with US standards, and “C” next to the mark indicates compliance with Canadian standards.

**ETL** — A product bearing the ETL Mark is determined to have met the minimum requirements of the applicable product safety standards as certified by Intertek, a Nationally Recognized Testing Laboratory (NRTL). The “US” next to the mark indicates compliance with US standards, and “C” next to the mark indicates compliance with Canadian standards.

**3G** — 3G testing, which is conducted according to ANSI standard C136.31-2010, simulates the dynamic vibratory stresses that transportation luminaires will experience in the field to determine whether they will be able to withstand such stresses during normal installation in their intended application.

**4G** — 4G testing, which is conducted according to ANSI standard C136.31-2010, simulates the dynamic vibratory stresses that transportation luminaires will experience in the field to determine whether they will be able to withstand such stresses during normal installation in their intended application.

**ADA Compliant** — Although ADA is not specific to lighting, it does impact fixture design by creating standards for wall sconce projection space and hanging light clearance. Section 4.4 of the ADA states that “objects projecting from walls with their leading edges between 27” and 80” above the finished floor shall project no more than 4” into walks, halls, corridors, passageways or aisles.”

**BSL** — BioSafety Level (BSL-x) classifies the relative danger from biohazardous material to the surrounding people and environment. There are four biosafety levels (BSL1 - BSL4) with the highest number representing the greatest risk. Luminaires in each class are designed to provide the protections necessary for containing biohazards associated with that level. For example, BSL-1 laboratories provide protection for pathogens such as E. coli and are most often found in high schools and colleges. BSL-2 labs protect against more dangerous organisms such as HIV, influenza A and MRSA. BSL-3 labs work with SARS-CoV, West Nile and other very dangerous viruses in tightly controlled clinical spaces with close supervision. BSL-4 is reserved for the most exotic and dangerous diseases where treatments are not available, such as viral hemorrhagic fever (Ebola and Marburg are examples) and smallpox. Fixtures for BSL-3 and 4 spaces must demonstrate and extremely reliable seal.

**CCEA Approved** — The City of Chicago Environmental Air (CCEA) rating ensures that the luminaire is inherently airtight. Wiring and/or branch circuit terminations are sealed off and gasketed from the plenum air space. This listing ensures that the luminaire is sealed to limit air flow from the room side to the plenum.

**Canadian Standards Association** — A product bearing the CSA Mark is determined to have met the minimum requirements of the applicable product safety standard, as certified by the Canadian Standards Association, a Nationally Recognized Test Lab (NRTL). The “US” next to the mark, indicates compliance with US standards, and a “C” indicates compliance with Canadian standards. If no US or C is next to the mark, compliance is to Canadian standards only.

**DesignLights Consortium** — Kenall’s state-of-the-art photometric lab has passed the most stringent proficiency testing in the industry to become ISO/IEC 17025 accredited. In doing so, we have earned the prestigious credentials for both the Department of Energy’s Lighting Facts® listings and DesignLights Consortium approvals. This accreditation enables us to submit multiple LED listings in multiple colors with the benefit of shortened lead times.

**HAZ** — The National Electric Code (NEC) identifies and classifies potentially hazardous materials and conditions. Kenall’s hazardous-rated products are approved for use in Class 1, Division 2, Groups A, B, C, and D. Basic requirements for Class I Division 2 electrical equipment is no arcing or sparking parts be present, or if present, be in an explosion-proof enclosure.

**IC RATED** — An IC rated fixture must, by definition, be approved for zero clearance insulation cover by a Nationally Recognized Testing Laboratory (NRTL), such as Underwriters Laboratory (UL). “IC” is short for Insulation Contact, which means that any housing that bears this rating can make direct contact with ceiling insulation.

**IDA Approved** (International Dark-Sky Association) — Educational, environmental 501(c)(3) nonprofit dedicated to protecting and preserving the nighttime environment and our heritage of dark skies through quality outdoor lighting.
The OSHPD listing pertains to standards that protruding objects and horizontal projections must meet in order to comply with the requirements of The California Office of State Health Planning and Development (OSHPD) California Building Code, Sections 1003.3.1 through 1003.3.4, for buildings and structures used for medical, surgical, psychiatric, nursing or custodial care for persons who are not capable of self-preservation or classified as nonambulatory or bedridden.

NSF Protocol P442-2015 — This protocol is a series of minimum requirements for the design, construction, performance and certifications of luminaires for cleanrooms. Intended to protect the controlled environment from the common causes of particulate contamination related to or resulting from the use of lighting fixtures. The protocol requires a pressure decay resistance test along with NSF2 and IP65 certifications.

UL48 — The ANSI/UL 48 signiﬁes that a manufacturer’s products are in compliance with Underwriter’s Laboratories (UL) requirements for all electric signs, art forms and outline lighting for use in accordance with the National Electrical Code, NFPA 70.

UL 924 — ANSI/UL 924 is UL’s Standard for Safety of Emergency Lighting and Power Equipment. ANSI/UL 924 listed electrical exit signs are tested and given a visibility rating of at least 100 feet, requiring them to be legible from a 100 foot viewing distance in total darkness. The battery backup is tested and must provide at least 90 minutes of emergency operation. Letters must be red or green and at least 6” height with a 3/4” letter stroke.