



LOW VOLTAGE LIGHTING SYSTEMS

These product category descriptions are to be used in conjunction with the “Overview of ARL’s Listing, Labeling and Follow-Up Inspection Services” (LSc001) which details ARL’s system requirements for obtaining a listed product certification.

This includes the following subcategories:

- **Low Voltage Landscape Lighting Systems**
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Low Voltage Landscape Lighting Systems

The products listed here are low voltage landscape lighting systems and components that may consist of a power unit, wiring, and luminaire. This category only covers equipment where the maximum output of each secondary circuit is 25 amperes, 15 volts AC (21.2 volts peak) open circuit voltage, 300 volt-amperes. The equipment is intended to be installed in accordance with the National Electrical Code, ANSI/NFPA 70.

The luminaires covered by this category are intended for garden, walkway, patio areas, or similar outdoor locations and for certain indoor locations such as atriums and shopping malls. The power units may be installed indoors or outdoors in accordance with the marking on the product.

Fluorescent and high intensity discharge lighting systems have been investigated in accordance with the applicable requirements for this category and with the applicable requirements in the Standard for Fluorescent Lighting Fixtures, UL 1570, and the Standard for High Intensity Discharge Lighting Fixtures, UL 1572, as appropriate.

Each product is marked with the name or trademark of the (manufacturer) or vendor, a distinctive type, style, model or catalog designation, date code, electrical ratings, electrical hazard warnings, wiring diagram, and other markings and cautionary warnings as required for specific types of products.

These products comply with ARL requirements which include pertinent sections of the **Standard for Safety, ANSI/UL 1838, Low Voltage Landscape Lighting Systems.**

Low Voltage Lighting Systems

This category includes low voltage lighting systems and components intended for permanent installation and for use in locations in accordance with the National Electrical Code, NFPA 70, Article 411.

This category also includes:

- a) Power units in which output is limited to 25 A and below the risk of electric shock voltage levels as defined in 19; and
- b) Class 2, exposed bare conductor, POE, and other low-voltage luminaires and lighting systems.

This category does not include low-voltage luminaires with integral power supplies or luminaires covered by other standards such as, but not limited to, the Standard for Portable Electric Luminaires, UL 153, the Standard for Track Lighting Systems, UL 1574, or the Standard for Luminaires, UL 1598.

Light emitting diode (LED) components and subassemblies integral to a low voltage luminaire or power unit included in products in this category shall comply with the applicable requirements of the Standard for Light Emitting Diode (LED) Equipment for Use in Lighting Products, UL 8750.

These products comply with ARL requirements which include applicable sections of **UL 2108 Standard for low voltage lighting systems**

Each listed product is marked with the name or trademark of the (manufacturer) or vendor, a distinctive type, style, model or catalog designation, date code, electrical ratings, electrical hazard warnings, and other markings and cautionary warnings as required for specific types of products.

A product that contains features, characteristics, components, materials, or systems new or different from those covered by the requirements of the standard, and that involve a risk of fire, electric shock, or injury to persons, have been evaluated using the appropriate additional component and end-product requirements as determined necessary to maintain the acceptable level of safety as originally anticipated by the intent of the standard. A product whose features, characteristics, components, materials, or systems conflict with specific provisions of the standard have been judged to be in non-compliance with the standard.

Only products which properly bear the ARL Listing Mark (Label) are considered Listed by ARL.