According to the Digital Illumination Interface Alliance (DiiA), the global industry alliance for DALI lighting control, “DALI-2 certification brings the promise of significantly improved interoperability and additional functionality compared with current DALI version-1 devices in the market.” The DALI-2 certification program is based on test specifications derived from the relevant parts of IEC 62386, the international DALI standard. DALI-2 certification involves independent verification of test results. In contrast, DALI version-1 product compliance is based solely on self-declaration, which has led to interoperability and compatibility issues in the market.

Below are the logos that help identify if a device is DALI version-1 or DALI-2:

In order to ensure compatibility with Lutron DALI controllers, the connected DALI LED drivers and fluorescent ballasts must be DALI-2 certified and marked. In addition to compatibility, it is important to select high-quality and high-performance LED drivers and fluorescent ballasts. DALI-2 certified devices are readily available from many manufacturers and are tested for compatibility with the standard. For a complete list of available DALI-2 certified devices, see the DiiA website at www.digitalilluminationinterface.org/products. DALI devices that are not listed on the DiiA website and are not marked DALI-2 cannot be considered DALI-2 certified.

The DALI version-1 standard does not ensure compatibility. If you would like to use an LED driver or fluorescent ballast that is not DALI-2 certified but carries a DALI version-1 logo, Lutron recommends that these devices be tested to ensure compatibility. Lutron is able to perform this testing on request. Samples of the drivers and light engines must be submitted to Lutron and the expected turnaround time is 6 to 8 weeks after the drivers are received. Fees for testing may apply. Lutron recommends that this testing be performed before the fixtures and lighting controls are purchased and installed. Contact your Lutron sales representative for more information.

Frequently Asked Questions:

1) Why would I use a DALI version-1 LED driver or fluorescent ballast instead of DALI-2?

Some device types (e.g. self-contained emergency – Device Type 1 and color control – Device Type 8) do not yet have defined DALI-2 test sequences released by DiiA. Until a device type has an associated DALI-2 test sequence that is released and listed by DiiA, an LED driver or fluorescent ballast that supports and advertises that device type cannot be marked DALI-2. For a complete list of the device types available in DALI-2 please visit the DiiA website at www.digitalilluminationinterface.org/certification/timeline.html.

2) Will my DALI-2 certified LED driver or fluorescent ballast be compatible with Lutron DALI controllers?

Yes, however to get the full benefit of any particular DALI feature, it must be supported by both the LED driver or fluorescent ballast and application controller. Not every feature specified in a LED driver or a fluorescent ballast specification may be supported by the Lutron DALI controller. To find out what DALI features are supported by each Lutron DALI controller, please refer to the individual product’s specification submittal at www.lutron.com.

3) Why is DALI-2 better than DALI version-1?

The DALI-2 certification program involves independent verification of test results by the DiiA. The independent verification removes ambiguity in the testing process and ensures consistency in test results. In contrast, DALI version-1 compliance testing is based only on self-declaration without independent verification of test results.
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