

# LED Driver Testing Requirements

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LED drivers are available from a wide variety of manufacturers. Determining compatibility between these devices and the dimming system is an important step toward ensuring the success of a project. When specifying ETC control systems for use with these products, customers should contact ETC's Applications Engineering Department before the install takes place. The engineers will be able to check whether a particular make and model has been tested previously and provide the results if available. If the device has not been tested already, then this can be arranged at no additional cost.

These steps may be followed for testing and qualification to be completed:

- 1) Fill out the Compatibility Testing Request Form on the following page and send a copy to [aesupport@etconnect.com](mailto:aesupport@etconnect.com) along with a cutsheet for the product to be tested. A printed copy of the form should be included with the samples as well so they can be identified upon arrival.
- 2) Samples shall be provided for testing at no cost to ETC.
  - a. For line-voltage dimmable LED products we prefer to see at least 4-6 of each specific lamp type in order to take more accurate measurements.
  - b. For 0-10V, DMX, or DALI fixtures only one of each type is required.
  - c. For fixtures with a separate driver and LED array, both pieces are required for testing. (ETC is not responsible for damage to LED arrays that are provided without a sufficient heatsink).
  - d. For MR16 and other low-voltage type lamps, the exact transformer to be used must be supplied with the lamp in order for the test to be valid.
  - e. For fluorescent fixtures, consult Applications Engineering on which pieces are required.
- 3) Samples shall be sent to: **Attn: Application Engineering  
Electronic Theatre Controls  
3031 Pleasant View Road  
Middleton, WI 53562-0979**
- 4) Most tests can be completed within 2 weeks following receipt of the samples. Please specify if the samples should be returned and provide a return address, along with a prepaid return shipping label or Fed Ex/UPS account number. If there is no return address specified, we will assume that the samples are no longer needed after testing.
- 5) The engineer will assess the dimming performance of the samples as well as their stability at various dimmed levels. Measurements will be taken for inrush and other electrical characteristics in order to assess the likelihood of certain types of problems.
- 6) After the test results have been compiled, Applications Engineering will contact the person(s) requesting the test and pass on the results.

## *Disclaimer:*

ETC provides this testing as a service to our customers to ensure compatibility between 3<sup>rd</sup> party luminaires and our dimming system. ETC will not perform additional testing on the samples such as photometric or thermal testing, as this information should be obtained from the fixture manufacturer. Any variations to the circuit including, but not limited to, the quantity of devices on a circuit, mixing of load types, and/or mixing different manufacturers products may produce unexpected and undesirable results. ETC will not be responsible for any problems that may occur based on the compatibility test results.

# ETC Dimming Compatibility Testing Request

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- Please provide all of the information requested below.
- Lead time for testing is typically 2 weeks following receipt of LED samples.
- Email this form and product datasheets to ETC's Application Engineering Department at [aesupport@etconnect.com](mailto:aesupport@etconnect.com) or call 1-888-908-2183 for more information.

Date: \_\_\_\_\_

Company Name: \_\_\_\_\_

Contact Name: \_\_\_\_\_

Email: \_\_\_\_\_ Tel: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Driver/Transformer/Ballast Manufacturer: \_\_\_\_\_

Model Number: \_\_\_\_\_

Lamp Type: \_\_\_\_\_ \*Lamp Base: \_\_\_\_\_

Fixtures per Circuit: \_\_\_\_\_

\*Sockets may need to be provided for less common base types.

Project Name: \_\_\_\_\_

Project Location: \_\_\_\_\_

ETC Job Number: \_\_\_\_\_

New System (looking for recommendations for best performance)

**For existing ETC dimming systems please provide:**

ETC Dimming Product:  Sensor Classic,  Sensor+,  Sensor3,  Sensor IQ,  Legacy Unison DR,  Unison DRd,  Echo Relay Panel,  Echo Phase-Adaptive Dimmer,  Foundry Phase-Adaptive Dimmer, or  Other: \_\_\_\_\_

Software Version: \_\_\_\_\_ Dimmer Module Type: \_\_\_\_\_

Power configuration:  120V, 60Hz  277V, 60Hz

**Additional information about the project:**

Would you like samples returned after testing is complete: Yes  No

If yes, please provide return address below along with FedEx or UPS account number:

Attention: \_\_\_\_\_

Company Name: \_\_\_\_\_

Shipping Address: \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

Shipping Account Number (UPS/FedEx): \_\_\_\_\_