

Ballast and LED Driver Testing Requirements

Fluorescent Dimming Ballasts and LED drivers are available from a wide variety of manufacturers. Determining compatibility between these devices and the dimming system is an important step toward a successful project. When specifying ETC dimming 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 it has. 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 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. If no return address is specified we will assume that they are no longer needed after testing.
- 5) The engineer will assess the dimming performance of the samples as well as their stability when set to various dimmed levels. Measurements will be taken of 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 3rd party luminaires and our dimming system. ETC will not perform additional testing on the samples such as photometric or thermal testing, as this information can 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

- Please provide all of the information requested below.
- Lead time for testing is typically 2 weeks following receipt of LED/Ballast samples.
- Email this form and product datasheets to ETC's Application Engineering Department at 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: _____

For existing ETC dimming systems please provide:

ETC Dimming Product: Sensor Classic, Sensor+, Sensor3, Sensor IQ, Legacy Unison,
 Unison DRd, Echo Family, or Other: _____

Software Version: _____ Dimmer Module Type: _____

Power configuration: 120V, 60Hz, Wye Delta

New System (looking for recommendations for best performance)

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): _____