**LED Driver Testing Requirements**

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 consult the compatibility database or 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. Send samples along with a cutsheet for the product to be tested. Please notate the testing ID on the package.
2. Samples shall be provided for testing at no cost to ETC.
   1. 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.
   2. For 0-10V, DMX, or DALI fixtures only one of each type is required.
   3. 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).

* 1. 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.
  2. For fluorescent fixtures, consult Applications Engineering on which pieces are required.

1. Samples shall be sent to:

***Attn:* *Application Engineering (ID#)***

***Electronic Theatre Controls***

***3031 Pleasant View Road***

***Middleton, WI 53562-0979***

1. 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.
2. 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.
3. After the test results have been compiled, Applications Engineering will contact the person(s) requesting the test and pass on the results.