

Conditions of Acceptability:

1. Rated output loading (1A/36W max.) for these products was achieved using LED loads.
2. As part of temperature testing, the case temperature at the temperature reference point- identified as tc on the case- was monitored. During the normal temperature test of the end product, the temperature at the temperature reference point is to be monitored. The absolute value at the temperature reference point cannot exceed 90 °C.
3. These products are intended for building in. Acceptability of the LED driver- with respect to mounting, spacing, casualty, temperature and segregation- is to be determined as part of the end device evaluation.
4. These products are provided with push-in terminals for supply and load connection. These terminals for mains connection are intended for use with 18 AWG solid copper conductors with 3/8 inches strip length.
5. These products are dimmable using a low voltage 0-10 V proprietary interface. The interface circuit has been evaluated for isolation from primary (input) circuits. The maximum output parameters of the 0-10 V interface met the limitations for the Class 2 inherently limited per the UL 1310 standard.
6. The product shall be grounded in the end product.
7. Driver model XI036C100V048DNMX may be substituted for current end-use applications using driver model XI036C100V048DNM1 without the need to repeat the Normal Temperature test.

8. LED Driver model XI036C100V048DNMX employs a Safety Related Electronic Control Circuit. The circuit along with an external NTC (physically located in a LED array) forms a thermal management system. This system has been evaluated to provide equivalent safeguards that are normally fulfilled using a thermal protector to comply with the requirements for Recessed luminaires in accordance with Section 11.5 and Clause 11.5.1 of UL 1598, the Standard for luminaires. The Safety Related Control Circuit system, which is described in this report, is comprised of a circuit contained within the Class 2 circuit of this LED driver and an NTC sensor that is remotely mounted on the circuit board of an LED array.

External NTC - The overall thermal protection system is achieved by monitoring two NTCs. One NTC is located in the circuit within the LED driver and the other NTC is located on the LED array. The leads from the external NTC mounted on the LED array are connected to the VIOLET and GREEN terminals of the LED Driver. The external NTC sensor (located in the LED array) that was evaluated as part of this system was type NCP18WF104F12RB by Murata Mfg Co. Ltd. (R/C XGPU2/8). This specific NTC must be used in the LED array, in order for this system to be utilized as a Thermal Protective Device for Luminaires. The following table indicates the specific modules from the Fortimo LED DLM GEN 4 and DLM FLEX - 3000 Lumen series for which use of this specific NTC has been verified:

Manufacturer	LED Module Part Numbers
Philips Lighting Electronic N A (DLM Gen 4)	9290 008 95706X, 9290 008 78303X, 9290 008 78403X, 9290 008 78503X
Philips Lighting Electronic N A (DLM FLEX)	9290 009 46906, 9290 009 47006, 9290 009 47106, 9290 009 47206

Luminaire testing - As the LED Driver model XI036C100V048DNMX and the LED array that includes the external NTC described above are integrated into a Luminaire, the applicable Temperature test requirements of Section 14 and the Abnormal Temperature test requirements in Section 15 of UL 1598 must be performed.

Luminaire thermal protector - If the luminaire tests are terminated with acceptable results, a thermal protector for the luminaire will not be necessary.