

UNDERWRITERS LABORATORIES INC. CERTIFICATION REQUIREMENT DECISION

This Certification Requirement Decision is prepared by UL LLC. It is normative for the applicable UL Product Certification Program(s); however, it is currently not part of the UL Standard(s) referenced below.

Product Category (CCN): FKSZ

Standard Number: UL 8750

Standard Title: Standard for Light Emitting Diode (LED) Equipment For Use In Lighting Products

Edition Date: September 15, 2015

Edition Number: 2

Section / Paragraph Reference: 1.4 and new Supplement SI

Subject: REQUIREMENTS FOR TYPE IC LED DRIVERS

DECISION:

1.4 The requirements in this standard do not anticipate additional construction, performance and marking considerations for the following end-applications: LED equipment subject to weather (outdoor use), LED equipment installed in air handling spaces or in other environmental air spaces (plenums); ~~LED equipment in recessed installations where direct contact with thermal insulation may occur~~ and LED equipment used in fire rated installations. LED equipment with such end- applications is subject to additional evaluation per applicable standards.

SUPPLEMENT SI - REQUIREMENTS FOR TYPE IC LED DRIVERS

SI1 Scope

SI1.1 These requirements apply to Type IC LED drivers. These requirements cover LED drivers with specific construction features, additional performance requirements and additional marking requirements.

SI1.2 In this supplement, the term “driver” refers to a Type IC LED driver unless otherwise noted.

SI2 Definitions

SI2.1 INSULATION CONTACT – A location where a device is intended to be covered by or come in contact with thermal insulation in a building cavity during normal use (e.g. the outer surface of LED driver that forms part a Type IC luminaire).

SI2.2 Type IC LED driver- A LED driver that is intended for installations with direct insulation contact.

SI2A General

SI2A.1 The driver shall comply with the requirements for Class P LED drivers in Supplement SE.

SI3 Construction

SI3.1 Type IC LED drivers are limited to the following design types:

a) A conduit connected driver,

b) A driver intended for installation on or over an outlet box where the outlet box will serve to complete the enclosure of the equipment under test, or

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c) A driver intended for installation to an exterior surface of a luminaire where the luminaire will serve to complete the enclosure of the equipment under test.

SI3.2 A driver shall comply with all applicable construction requirements of this standard and the following criteria:

a) The driver shall not rely upon external thermal management methods such as forced air cooling, or non-integral heat-sinking for compliance with the requirements of this supplement; and

b) The driver shall be formed from metal and be provided with both an integral fire and electrical enclosure in accordance with the applicable requirements described in the following sections:

1. 6.2 (Metal parts).

2. 6.3A (Metal enclosures intended for conduit connection).

3. 6.4.1 (enclosure openings- all exceptions apply).

4. 6.5 (Conductor protection).

5. 6.6 (Strain relief) and

6. 6.7 (Potting compound).

c) The driver shall be provided with supply connections that comply with 7.4.1 and 7.4.2.1 (i.e., conduit connection).

Exception: A driver that is intended for installation on or over an outlet box shall be provided with supply connections that comply with 7.4.1 and 7.4.2.2 to 7.4.2.4 (i.e. field-wiring leads, field-wiring terminals, or push-in terminals).

d) The driver shall be provided with load connections that comply with 7.4.1 and 7.4.4.

e) Integral wiring terminals and lead wires shall be suitable for at least 90°C (194°F).

f) The driver shall comply with grounding and bonding requirements of 7.2A.

SI4 Performance

SI4.1 General

SI4.1.1 Type IC LED drivers shall comply with all applicable performance requirements of this standard and the additional criteria in this section.

SI4.1.2 During these tests the driver shall be operated in its worst-case normal operating conditions, as defined by its markings and electrical ratings.

SI4.2 Temperature test

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