

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): IFAM, IFAO, IFFX

Standard Number: UL 1598

Standard Title: Standard for Luminaires

Edition Date: August 28, 2018

Edition Number: 4

Section / Paragraph Reference: New Clause 10.4A

Subject: Supplementary Requirements for LED Luminaires using Class P LED Drivers.

DECISION:

10.4A Class P LED Drivers

10.4A.1 These requirements apply to LED luminaires having Class P LED drivers.

10.4A.2 When a supply cord of a luminaire permits the cord to be pushed back into the enclosure, resulting in a spacing between the cord and a Class P driver case of less than 76 mm (3 in), the supply cord shall be rated for at least 90 °C or for the temperature of any component it can contact, whichever is greater.

10.4A.3 Conductors shall have a minimum temperature rating in accordance with Table 10.4A.3 or the conductor temperature measured during the normal temperature test of Clause 15, whichever is greater.

Table 10.4A.3
Minimum temperature rating of conductors

Position of conductors relative to Class P drivers	Temperature °C
Permanently spaced a minimum of 76 mm (3 in) from any Class P driver	60
Less than 76 mm (3 in) from, but prevented from contacting any Class P driver	80
In contact with any Class P driver or spaced less than 76 mm (3 in) and provided with an outer braid	75
In contact with any Class P driver or spaced less than 76 mm (3 in)	90

10.4A.4 A luminaire having branch circuit supply wiring that can come within 75mm (3 in) of a Class P driver case shall be marked for 90 °C supply conductors in accordance with Table 20.1.1, Item 1.1.

RATIONALE FOR DECISION:

These are supplemental requirements for LED luminaires having Class P LED drivers. These additional requirements are based on the current requirements in UL 1598 clauses 8.3 and 8.5.2 (j), which address cord and conductor temperature ratings for Fluorescent luminaires having thermally protected ballast (Class P ballasts).

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