

Proposal Number: 2018-OA-021

Rule 30-1400 and Appendix B Note

Description of Change: Clarification that Rules 30-1402 to 1410 apply to LED luminaires supplied by Power over Ethernet.

Proposed by: Electrical Safety Authority

Background:

Power over Ethernet (PoE) is becoming more prevalent in the field for residential use of LED luminaires. As such, requirements for Class 2 power and data communications circuits (based on PoE) have been added to Section 16 in CSA C22.1-18 as shown below:

Δ 16-000 Scope (see Appendix B)

1) This Section applies to

a) Class 1 and Class 2 remote control circuits;

b) Class 1 and Class 2 signal circuits;

c) Class 1 extra-low-voltage power circuits;

d) Class 2 low-energy power circuits; and

e) Class 2 power and data communication circuits connecting power sourcing equipment and powered devices.

And the Appendix B note:

Δ Rule 16-000 1) e)

Class 2 power and data communication circuits are based on the concept known as PoE (power over ethernet) introduced by the IEEE 802.3 series of Standards.

Furthermore, a new subsection was added to Section 16 (16-300 to 16-350) to cover Class 2 power and data communications circuits:

Δ **Class 2 power and data communication circuits**

16-300 Scope (see Appendix B)

Rules 16-300 to 16-350 apply to Class 2 power and data communication circuits.

Rationale:

This Appendix B note will provide clarification that Rules 30-1402 to 1410 do apply to LED luminaires supplied by Class 2 power and data communications circuits; namely Power over Ethernet.

Proposed Change:

Amend Rule 30-1400:

30-1400 Scope (see Appendix B)

Rules 30-1402 to 30-1410 apply to the wiring of LED luminaires, and their associated controls, required by Rules 30-500 to 30-510 ~~in buildings of residential occupancies~~, supplied by Class 2 circuits in which the current is limited in accordance with Rule 16-200.

Amend Appendix B Note to Rule 30-1400

Rule 30-1400

~~Rules 30-1402 to 30-1410 are applicable to luminaires in dwelling units required by the provisions of the Ontario Building Code or Rules 30-500 to 30-510. Control requirements for luminaires are provided in the Ontario Building Code or Rules 30-500 to 30-510.~~

These rules also apply to installations of LED luminaires supplied by Class 2 power and data communication circuits, i.e. PoE (Power over Ethernet) required by the provisions of the Ontario Building Code or Rules 30-500 to 30-510.

Installation of LED luminaires may consist of a complete LED lighting system or be an assembly of individual products.