



**Note:** The PROV published in November 2017 replaces OPSS 2485 COMMON, November 2015 with no technical content changes.

## **MATERIAL SPECIFICATION FOR PHOTOELECTRIC CONTROLLERS**

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#### **2485.01 SCOPE**

This specification covers the requirements for electronic photoelectric controllers rated for 1,800 VA for use with 105 to 305 volt power supply at 60 Hz.

#### **2485.02 REFERENCES**

This specification refers to the following standards, specifications, or publications:

##### **CSA Standards**

C239-02 (R2011) Performance Standard for Dusk-to-Dawn Luminaires

##### **American National Standards Institute (ANSI)**

C136.10-2010 Roadway and Area Lighting Equipment - Locking-Type Photocontrol Devices and Mating Receptacle - Physical and Electrical Interchangeability and Testing

**2485.07                      PRODUCTION**

**2485.07.01                  General**

Photoelectric controllers shall be electronic and according to CAN/CSA C239.

Photoelectric controllers shall be of weatherproof construction and operational within a temperature range of -40 to 65 °C.

Photoelectric controllers shall be factory preset at 16 lux switch-on light level and 50 lux switch-off light level.

**2485.07.02                  Electrical Requirements**

Photoelectric controllers shall be provided with three locking type blades according to ANSI C136.10.

Photoelectric controllers shall be supplied with contacts normally closed at nighttime or under failure conditions. Photoelectric controllers shall have an internal lightning arrester with a minimum spark over of 2.0 kV. The power consumption of the photoelectric controller itself shall be 5 watts or less.

**2485.07.03                  Marking**

A permanent type of identification shall be provided on the outside of the photoelectric controller indicating the manufacturer's name or trademark, catalogue number, voltage, VA rating, and date coding.