7425.2500 SPECIFICATIONS FOR INDIVIDUAL LIGHTING DEVICES.

Subpart 1. **In general.** In addition to complying with standards incorporated by reference in this chapter, the requirements for individual devices are listed in subparts 2 to 11.

Subp. 2. **Bicycle headlamp.** Bicycle headlamp intensity above horizontal must not be greater than 250 candela. The lamp housing must be constructed so that a bulb and battery can be readily replaced. The headlamp must project a distinct beam of white light of uniform pattern.

Subp. 3. **Combination lamp.** In combination lamps, the requirements for each individual function must be met independently of any other function.

Subp. 4. **Electric emergency lantern.** Electric emergency lanterns, when placed on any clean, dry, paved road surface, must not tip or slide in a 40 mile-per-hour wind. To test these devices, three sample lanterns regularly marketed and sold must be chilled at a temperature of minus 20 degrees Fahrenheit for 12 hours, after which they must be placed in operation for 12 hours. Failure of two of the three samples to operate or to meet the intensity requirements of SAE standard J596 for electric emergency lanterns, incorporated by reference in part 7425.2100, subpart 1, item L, during the test is an automatic rejection.

Subp. 5. **Fusee.** Fusees must conform to the requirements in Code of Federal Regulations, title 49, section 393.95(j) (1983) for fusees. The color emitted must be red.

Subp. 6. **Alternate replacement bulb.** Each bulb designed or marketed as an alternate replacement must comply with the SAE standards or recommended practices incorporated by reference in this chapter applicable for that type of bulb to permit a lighting device in which it is an alternate replacement to continue to conform to this chapter.

Subp. 7. **Replacement lens.** Replacement lenses, when installed in the housings for which they are designed, must meet the mechanical test requirements for dust, moisture, vibration, and warpage specified in the standards or recommended practices incorporated in this chapter and applicable to the lamp. If gaskets, sealant, or other parts are supplied with the lens, the requirements must be met using the materials supplied.

The photometric and color requirements of this chapter that were in effect at the time the latest lamp was last manufactured must be met for each function performed. Instructions listing the original lamps or the year and model of the vehicles on which the replacement lenses are designed to be installed must be included with the lens, the retail packaging for the lens, or in a catalog readily available where the lens is sold or offered for sale.

Subp. 8. **School bus warning-lamp system.** Requirements for operating school bus warning-lamp systems are specified in parts 3520.5200 to 3520.5230 and 3520.5580.

Subp. 9. **Spot lamp.** Spot lamps must be mechanically or electrically aimed and operated from the inside of the vehicle. This requirement does not apply to those lamps designed for use as utility lights and mounted on public utilities vehicles and on authorized emergency, maintenance, and service vehicles.

Subp. 10. **Alternately flashing warning lamp.** Alternately flashing warning lamps may be used only on authorized emergency vehicles and school buses.

Subp. 11. **Installation of flashing warning lamp.** The installation recommendations in SAE standard J595b for flashing warning lamps, incorporated by reference at part 7425.2100, subpart 1, item O, on authorized emergency vehicles are not mandatory for law enforcement vehicles when determined not practicable by the affected law enforcement agency.

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