

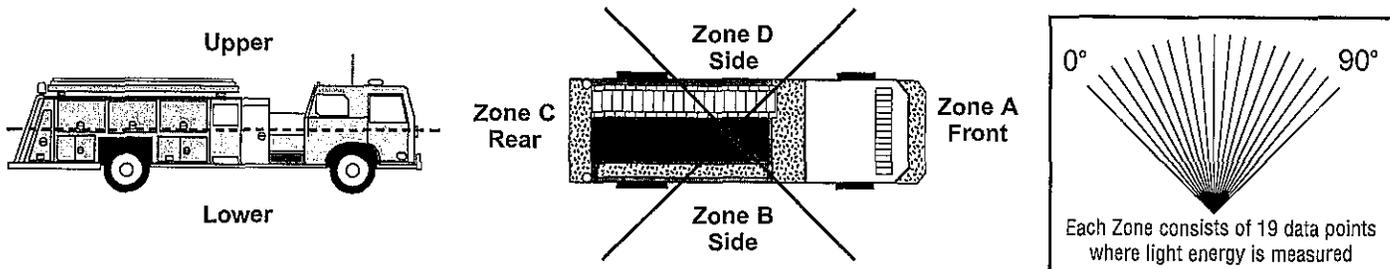
NFPA LARGE APPARATUS LIGHTING REQUIREMENTS

This page provides a general overview of the Large Apparatus emergency warning light requirements of the "NFPA 1901 Standard for Automotive Fire Apparatus – 2009 Edition". The NFPA 1901 standard defines a Large Apparatus as an apparatus that has a bumper-to-bumper length of 25 feet or more, or an apparatus that has the optical center of any optical warning device at greater than 8 feet above level ground.

Warning Zones

Rev. 2/10

Each apparatus, 25' long or greater, is divided into eight (8) warning zones – four upper and four lower.



Modes of Operation

Calling for Right of Way: Apparatus responding to an emergency.

Blocking Right of Way: Apparatus at emergency scene. White light not permitted.

Permissible Colors

All colors must meet the SAE J578 color specification for White, Red, Blue, and Amber. The diagram at right shows which colors are allowed in each zone.

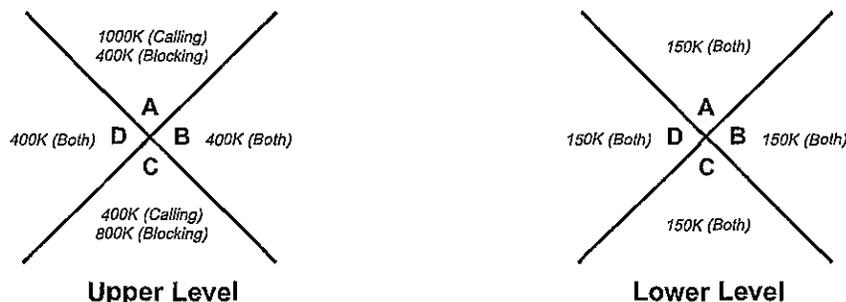
Color	Calling for Right of Way	Blocking Right of Way
Red	Any zone	Any zone
Blue	Any zone	Any zone
Amber	Any zone except A	Any zone
White	Any zone except C	Not permitted

Flash Rate and Failure

The minimum flash rate allowed is 75 flashes per minute for any single optical source and 150 flashes per minute from all of the light sources visible at any data point (i.e., at least two warning lights are required in each zone). Failure of a lighting device should not leave a data point without a signal.

Light Energy Requirements for Apparatus—Values in Candela-Seconds per Minute

*Large Apparatus—25' Long or Greater**



For vehicles 25 feet or longer: Light energy at each data point on the horizontal plane must be a minimum of 10K and 3.5K at $\pm 5^\circ$.