



ENGINEERING COMPANY, INC.

TRAINING DEPARTMENT

Below are definitions taken from the Society of Automotive Engineers Standards (SAE)

Light Pulse – Sudden emission of light of short duration and of high intensity

Light Flash – A single light pulse or a train of pulses. In order to be considered a flash, all pulses must occur within 100 milli-seconds

Gaseous Discharge Warning Lamp – A device that produces a regularly repeating pattern of light flashes when electrical current is discharged through an ionized gas.

360 Degree Warning Lamp – A lamp that produces a light in a horizontal 360 degree arc. It will appear to project a regularly repeating pattern of flashes to an observer positioned at a fixed location. Its function is to inform other highway users to stop, yield right-of-way, or to indicate the existence of a hazardous situation.

Directional Warning Lamp – A lamp that produces a repetitive flash of light which is directionally aimed and will project a flashing beam signal over a minimum area from 20 deg right to 20 deg left on a horizontal plane and from 10 deg up to 10 deg down on a vertical plane.

Primary Warning Lamps – Lamps or groups of lamps that are intended to provide the primary visual warning signal called out in each service class.

Secondary Warning Lamps – Lamps or groups of lamps that can be used to provide a supplemental warning signal for each service class.

Class 1 Warning Lamps - Primary warning lights for use on authorized emergency vehicles responding to emergency situations. These lamps are utilized to capture the attention of motorists and pedestrians and to warn of a potentially hazardous activity or situations.

Class 2 Warning Lamps - Primary warning lamps for use on authorized maintenance and service vehicles to warn of traffic hazards such as an accident, slow moving service truck, etc.

Class 3 Warning Lamps – Primary warning lamps for use on vehicles that are authorized to display flashing lamps for identification only.