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## A Product of the Cooperative Engineering Program

# **SAE J387 NOV87**

# Terminology — Motor Vehicle Lighting

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		Superseding J387 JUL83			
	TERMINOLOGY - MOTOR VEHICLE LIGH	ITING			
•					
1.	<u>SCOPE:</u> The following are definitions of common ter and Recommended Practices pertaining to motor vehic	ms used in SAE Standards le lighting.			
2.	ACCURATE RATED BULE: A seasoned bulb operated at design mean spherical candlepower and having its filament(s) positioned within +0.25 mm, and with its pins oriented within +5 deg, of nominal design positions. Rated bulbs shall be seasoned at rated voltage for 1% of their design life or 10 h maximum.				
3.	BULB: An indivisible assembly which contains a source of light and which is normally used in a lamp.				
4.	CENTROID OF A LENS AREA: The geometric centroid of a plane area which is perpendicular to the axis of reference of the vehicle and upon which the projection of the functional lighted lens area falls. As an example: The axis of reference for lamps mounted on the front and rear of a vehicle is the longitudinal axis of the vehicle.				
5.	DEVICE: Any piece of equipment or mechanism designed to serve a special purpose or perform a special function.				
6.	LAMP: A divisible assembly which contains a bulb or other light source and sometimes an optical system such as a lens and/or a reflector, and which provides a lighting function.				
7.	LIGHT: Visible radiant energy.				
8.	MULTIPLE COMPARTMENT LAMP: A device which gives it more separately lighted areas which are joined by c such as a housing or lens.	ts indication by two or one or more common parts,			

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9. OPT Ø bot	ICALLY COMBINE	D: A lamp shall b	be deemed to be "optically	
		wing conditions ex	(ist:	COMDINED" 11
9.1 It	has two or mo	re separate light	sources, or a single light	source that
Ø op	erates in diff	erent ways (for e	cample, a two filament bulb	
	s optically fu re lamp functi		a is wholly or partially co	mmon to two or
10. MUI	LTIPLE LAMP AR	RANGEMENT: An arr	ay of two or more separate	lamps on each
si	de of the vehi	cle which operate	together to give a signal.	
11. <u>UN</u>	IT: An indivi	sible assembly whi	ich provides a mechanical,	electrical, or
11	ghting functio	n, for example, se	ealed beam unit or flasher.	

The phi  $(\emptyset)$  symbol is for the convenience of the user in locating areas where technical reivsions have been made to the previous issue of the report. If the symbol is next to the report title, it indicates a complete revision of the report.

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#### RATIONALE:

In FMVSS 108, paragraph S4.4.1, it is stated that "...no clearance lamp may be combined optically with any tail lamp or identification lamp..." Similar wording occurs in subsection 14 of CMVSS 108.

For lack of this definition, lamps are being manufactured and installed on trailers that combine the clearance lamp functions under one lens, with two closely-spaced bulbs. This clearly violates the spirit and intent of these safety standards.

This definition harmonizes well with ECE Regulation 48, page 2, paragraph 2.6.5, "Reciprocally Incorporated Lamps."

### RELATIONSHIP OF SAE STANDARD TO ISO STANDARD:

Not applicable.

**REFERENCE SECTION:** 

Not applicable.

APPLICATION:

The following are definitions of common terms used in SAE Standards and Recommended Practices pertaining to motor vehicle lighting.

COMMITTEE COMPOSITION:

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