



SURFACE VEHICLE RECOMMENDED PRACTICE

J3134™

DEC2025

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Revised 2025-12

Superseding J3134 MAY2019

(R) Automated Driving System (ADS) Marker Lamp

RATIONALE

The current SAE J3134 standard only has requirements for front Automated Driving System (ADS) marker lamps because the initial justification was to make the road user comfortable when a driver is not present. Since then, there have been requests to add rear and side marker ADS lamps requirements into SAE J3134 for the following reasons:

- Rear and side ADS marker lamps are being considered in the UNECE and China regulations.
- SAE J3134 rear and side ADS requirements would establish a recommended practice that could lead to harmonization as it did with front ADS marker lamps.
- Rear and side ADS marker lamps are being installed and studied on vehicle test fleets.
- State Law Enforcement are supportive of 360-degree visibility, e.g., front, rear, and side ADS marker lamps.
- California Bill - CA SB 480 – proposes: (j) Commencing January 1, 2026, an autonomous vehicle may be equipped with automated driving system (ADS) marker lamps in accordance with SAE International's "Recommended Practice, Automated Driving System (ADS) Marker Lamp, Standard J3134 (May2019)," as may be revised...
- American Association of Motor Vehicle Administrators (AAMVA) has also included ADS Marker Lamps in their *Guidelines for Regulating Vehicles with Autonomous Driving Systems* - Chapter 6. Law Enforcement Considerations - 6.1 Vehicle Identification:

Recommendations for Jurisdictions:

6.1.2. Encourage the passage of legislation...to allow Manufacturers and Other Entities (MOEs) to implement the use of ADS marking lamps for...ADS vehicles. The color should comply with SAE J3134.

Recommendation for MOEs:

"MOE 26. When authorized to do so, install ADS marking lamps to allow law enforcement to identify if an ADS-equipped vehicle is being operated by the ADS or by the driver to mitigate enforcement stops for driver-centric violations, such as distracted driving. Visual or other cues should be included in the law enforcement interaction plan."

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In 2.2.1 (SAE Publications):

Added SAE J2042

Removed SAE J2442

Added SAE J3098

In 2.2.2 (Other Publications):

Added American Association of Motor Vehicle Administrations (AAMVA) - *Guidelines for Regulating Vehicles with Automated Driving Systems Edition 4*

In Section 3 (Definitions):

3.1 AUTOMATED DRIVING SYSTEM (ADS) - definition revised

3.2 ADS MARKER LIGHT FUNCTION - definition and title revised

3.3 ADS MARKER LAMP - new definition added

In 6.1.5 (Photometry):

Revised ADS marker lamp requirements:

- Changed front ADS marker lamp photometry points to harmonize with UN signal lamp photometry points.
- Combined day and nighttime requirements into one figure to simplify document.
- Added sections 6.1.5.2 and 6.1.5.3 and figures for rear and side ADS marker lamp requirements.

In 6.2 (Visibility):

Added geometric visibility requirements.

In 6.3 (Color):

Removed specific blue-green color coordinates and referenced SAE J578 in 6.3.1.

In 6.5 (Installation):

Revised Table 2 to include rear and side ADS marker lamps requirements. Allowing deactivation of ADS marker lamps either automatically (GPS) or by other means (dealer service procedure) for areas or jurisdictions where ADS marker lamps are potentially prohibited.

1. SCOPE

This SAE Recommended Practice provides guidelines for the use, performance, installation, activation, and switching of marking lamps on Automated Driving System (ADS) equipped vehicles.

2. REFERENCES

2.1 Applicable Documents

The following publications form a part of this specification to the extent specified herein. Unless otherwise indicated, the latest issue of SAE publications shall apply.

2.1.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 1-877-606-7323 (U.S. and Canada only) or 1-724-776-4970 (outside U.S. and Canada), www.sae.org.

SAE J575	Test Methods and Equipment for Lighting Devices for Use on Vehicles Less than 2032 mm in Overall Width
SAE J576	Plastic Material or Materials for Use in Optical Parts Such as Lenses and Reflex Reflectors of Motor Vehicle Lighting Devices
SAE J578	Chromaticity Requirements for Ground Vehicle Lamps and Lighting Equipment
SAE J759	Lighting Identification Code
SAE J3016	Taxonomy and Definitions for Terms Related to Driving Automation Systems for On-Road Motor Vehicles

2.1.2 CIE Publications

Available from CIE Central Bureau, Babenbergerstrasse 9/9A, 1010 Vienna, Austria, Tel: +43 1 714 31 87, www.cie.co.at.

CIE 1931	Standard - Colorimetry
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2.2 Related Publications

The following publications are provided for information purposes only and are not a required part of this SAE Technical Report.

2.2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 1-877-606-7323 (U.S. and Canada only) or 1-724-776-4970 (outside U.S. and Canada), www.sae.org.

SAE J387	Terminology - Motor Vehicle Lighting
SAE J1889	LED Signal and Marking Lighting Devices
SAE J2042	Clearance, Sidemarker, and Identification Lamps for On-Road Vehicles 2032 mm or More in Overall Width
SAE J2139	Tests for Signal and Marking Devices Used on Vehicles 2032 mm or More in Overall Width
SAE J3098	Front Decorative Lamp
SAE J3114	Human Factors Definitions for Automated Driving and Related Research Topics