

HEADLAMPS FOR AGRICULTURAL EQUIPMENT

Foreword—This Reaffirmed Document has been changed only to reflect the new SAE Technical Standards Board Format.

1. Scope—This SAE Standard provides performance and general design requirements and related test procedures for headlamps for use on agricultural equipment that may be operated on public roads.

2. References

2.1 Applicable Publications—The following publications form a part of this specification to the extent specified herein. The latest issue of SAE publications shall apply.

2.1.1 SAE PUBLICATIONS—Available from SAE, 400 Commonwealth Drive, Warrendale, PA 15096-0001.

SAE J572—Requirements for Sealed Lighting Unit for Construction and Industrial Machines

SAE J573—Miniature Lamp Bulbs

SAE J575—Test Methods and Equipment for Lighting Devices and Components for Use on Vehicles Less Than 2032 mm in Overall Width

SAE J598—Sealed Lighting Unit for Construction, Industrial, and Forest Machinery

SAE J760—Dimensional Specifications for General Service Sealed Lighting Units

3. Definitions—A headlamp for agricultural equipment is a lighting device used to provide general illumination ahead of the vehicle.

4. General Requirements—The following sections from SAE J575 are part of this document:

Section B—Samples for Test

Section D—Laboratory Facilities

Section I—Color Tests—The color of the light from the lighting device shall be white.

Section J—Photometry—The photometric test shall be made with the photometer at a distance of at least 18.3 m (60 ft) from the lamp.

5. Dimensional Requirements—The headlamp shall conform to the dimensional requirements of either SAE J572 or SAE J760.

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6. **Electrical and Life Requirements**—The headlamp shall conform to the appropriate requirements of either Table 2 of SAE J573 or Table 5 of SAE J598.
7. **Beam Aim on Vehicle**—(Reference for photometric requirements only)
- 7.1 **General Service Lamp (Trapezoidal)**—The unit shall be aimed so that the top of the beam is at least 1 degree below lamp center level but not more than 4 degrees below lamp center level and centered laterally.
- 7.2 **General Service Floodlamp**—The unit shall be positioned with the lamp axis aimed downward to provide illumination close to the vehicle.
8. **Photometric Requirements**
- 8.1 **General Service Lamp (Trapezoidal)**—The unit shall comply with the photometric requirements of Table 3 of SAE J598.
- 8.2 **General Service Floodlamp**—The unit shall comply with the photometric requirements of Table 4 of SAE J598.

PREPARED BY THE SAE AGRICULTURAL TRACTOR TECHNICAL COMMITTEE