



AEROSPACE STANDARD

AS50571™**REV. C**

Issued 1999-04
Revised 2016-03
Stabilized 2025-02

Superseding AS50571B

Lights, Instrument, Individual, General Specification For

RATIONALE

AS50571C is being stabilized as the individual lamps are obsolete. Last change in 2016 was to update the wire specification.

STABILIZED NOTICE

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**Documents**

Document Sharing Hub

1. SCOPE

This specification covers the general requirements for red and white individual instrument lights. This document has been streamlined. Appendix A to MIL-L-5057F lists those documents required for MIL-L-5057F acquisition and is a mandatory part of MIL-L-5057F. Those documents listed in Appendix A have the same status as those referenced directly in MIL-L-5057F (first tier documents). All other documents, referenced through tiering, may be used as guidance and information to supplement MIL-L-5057F. This document's scope is limited to lamp source designs solely. Furthermore, the use of red lighting should not be considered for new design and included within this document to support requirements for existing military aircraft that still operate with this system of lighting.

1.1 Classification

The lights shall be suitable for clamp- or flange-mounted instruments or for polysign indicators as specified. The lights shall be furnished in the MS part numbers listed on the standard or for qualified lights which do not conform to any standard, the manufacturer's part numbers listed on the manufacturer's drawing (see 6.2).

2. APPLICABLE DOCUMENTS

The following publications form a part of this document to the extent specified herein. The latest issue of SAE publications shall apply. The applicable issue of other publications shall be the issue in effect on the date of the purchase order. In the event of conflict between the text of this document and references cited herein, the text of this document takes precedence. Nothing in this document, however, supersedes applicable laws and regulations unless a specific exemption has been obtained.

2.1 The following documents of the issue in effect on date of invitations for bids form a part of this specification to the extent specified herein.

MILITARY SPECIFICATIONS

MIL-I-631	Insulation, Electrical, Synthetic-Resin Composition, Nonrigid
MIL-C-6390	Clamps and Instruments, Aircraft, Installation of
MIL-DTL-6839	Indicator, Symbol Indicating, Landing Gear, Position
MIL-DTL-6363/8	Lamps, Incandescent Aircraft Service, Single Contact, Midget Flanged Base T-1 ¾ Bulb
NASM6818	Clamp, Instrument, Mounting, Aircraft

STANDARDS

Federal

FED-STD-595	Colors
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Military

MIL-STD-1916	DOD Preferred Methods for Acceptance of Product
MIL-STD-129	Marking for Shipment and Storage
MIL-STD-130	Identification Marking of U.S. Military Property
MIL-STD-810	Environmental Engineering Considerations and Laboratory Tests
MIL-STD-2073-1D	Standard Practice for Military Packaging
NASM9006	Recesses - Cross, Low Torque Drive, Dimensions and Gage Dimensions for
MS 33545	Case, Instrument, 5 x 5-1/4, Standard Dimensions for
MS 33638	Cases, Instrument, Flange-Mounted, Aircraft
MS 33639	Cases, Instrument, Clamp-Mounted, Aircraft

(Copies of specifications, standards, drawings, and publications required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

2.2 Other Publications

The following document forms a part of this specification to the extent specified herein. Unless otherwise indicated, the issue in effect on date of invitation for bids or request for proposal shall apply.

2.2.1 Consolidated Classification Committee

Available from the Consolidated Classification Committee, 202 Chicago Union Station, Chicago, IL 60610.

Uniform Freight Classification Rules

2.2.2 ASTM Publications

Available from ASTM International, 100 Barr Harbor Drive, P.O. Box C700, West Conshohocken, PA 19428-2959, Tel: 610-832-9585, www.astm.org.

ASTM D3951 Packaging, Commercial

ASTM D6251 Standard Specification for Wood-Cleated Panelboard Shipping Boxes

2.2.3 SAE Publications

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

AS25050 Color, Aeronautical Lights and Lighting Equipment, General Requirements For

3. REQUIREMENTS

3.1 First Article

Unless otherwise specified, the lights furnished under this specification shall be a product which has been inspected and has passed first article inspection specified herein (see 4.3 and 6.3).

3.2 Precedence

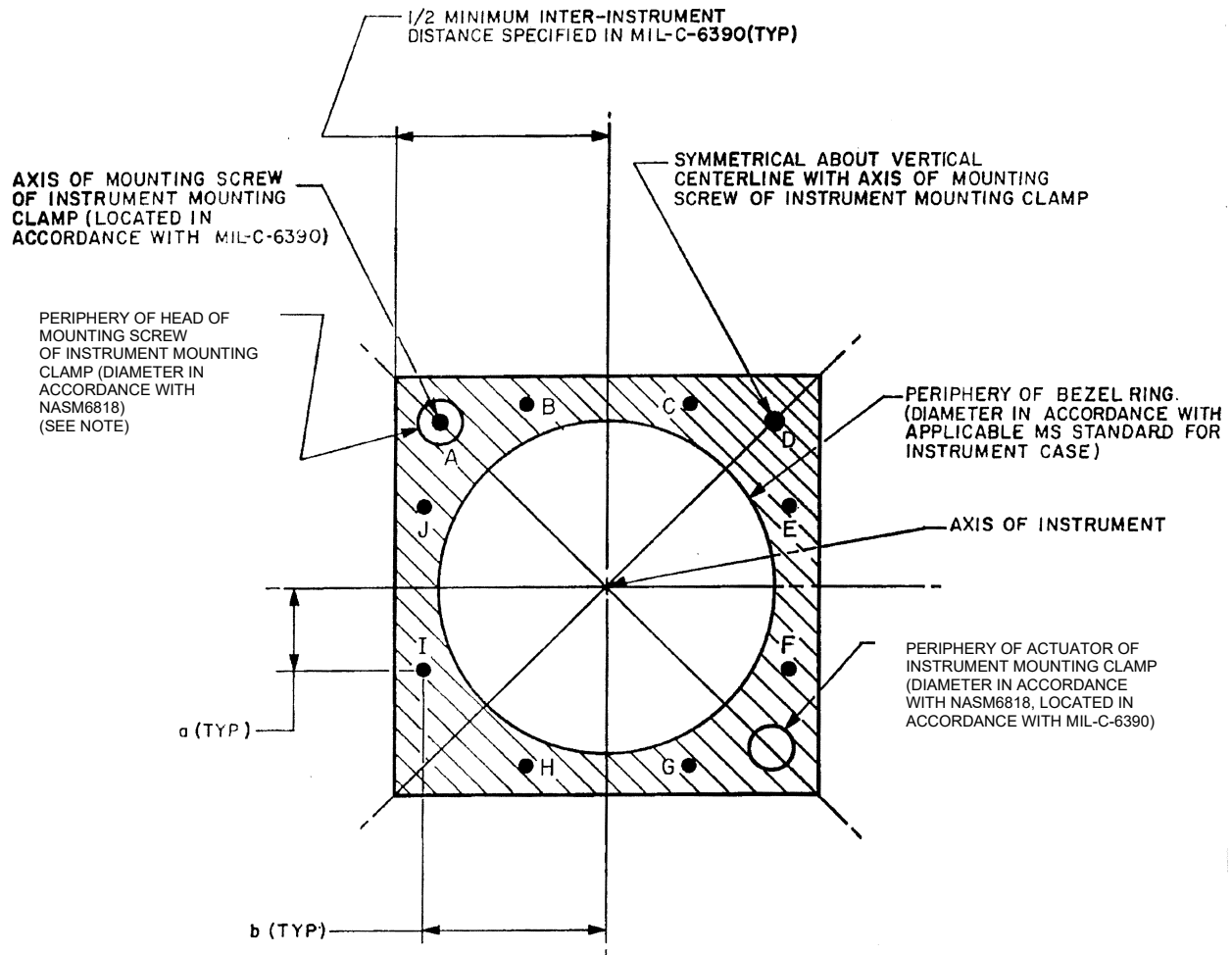
When the requirements of this specification and the applicable MS standard are in conflict, the requirements of the MS standard shall apply.

3.3 Design and Construction

Lights shall conform to the MS standard or, for qualified lights which do not conform to any standard, to the manufacturer's drawing. Lights for clamp-mounted instruments shall be contained within the outline shown in Figure 1. Lights for flange-mounted instruments shall be contained within the circumscribing square of the mounting flange of the instrument. Lights for polysign indicators shall be contained within the outline shown in Figure 2. No part of any light shall be more than 0.875 inch forward (away from the instrument panel) from the extreme front surface of the instrument case, exclusive of knobs, pushbuttons, etc., nor contained within a right truncated circular cone, the axis of which is the axis of the case of the instrument, the periphery of the truncated end of which is the periphery of the aperture of the case of the instrument, and the side of which makes an angle of 30 degrees with its axis. Lights shall not interfere with operation of any adjusting knobs or screws on the instrument case.

3.3.1 Mounting

The light shall be mountable on an instrument panel of any thickness between 0.060 and 0.190 inch inclusive. Lights for clamp-mounted instruments and polysign indicators shall be mounted by means of 1 or 2 circular holes, each not more than 0.260 inch in diameter in the instrument panel in the locations indicated for capital letters in Figures 1 and 2 as applicable. Lights for flange-mounted instruments shall be mounted by means of 1 or more of the mounting screws of the instrument, or by means of equivalent devices installed through the mounting holes of the instrument which are part of, or are furnished with the light, which shall serve to mount the instrument as well as the light.



DIMENSIONS IN INCHES. TOLERANCES $\pm .016$.

LIGHT(S) SHALL BE CONTAINED IN SHADED REGION.

NOTE: IF THE LIGHT IS NOT MOUNTED IN THE MOUNTING LUG OF THE INSTRUMENT MOUNTING CLAMP OR BY MEANS OF A SCREW OR OTHER DEVICE SCREWED INTO THE MOUNTING LUG OF THE INSTRUMENT MOUNTING CLAMP, NO PART OF THE LIGHT SHALL BE CONTAINED WITHIN THE PERIPHERY OF THE HEAD OF THE MOUNTING SCREW OF THE INSTRUMENT MOUNTING CLAMP.

INSTRUMENT SIZE	a	b
1 - INCH	.400	.500
1½- INCH	.594	.766
2 - INCH	.62	1.062
3 - INCH	1.047	1.500

Figure 1 - Dimensions and mounting of lights for clamp-mounted instruments