

MIL-S-16938C (SHIPS)  
 30 July 1973  
~~SUPERSEDING~~  
 MIL-S-16938B (SHIPS)  
 31 January 1964  
 (See 6.8)

MILITARY SPECIFICATION  
 SEARCHLIGHTS, INCANDESCENT, SIGNALING, 8-INCH

1. SCOPE

1.1 Scope. This specification covers 8-inch incandescent signaling searchlights for Naval shipboard use.

1.2 Classification. The searchlights shall be of the following types as specified (see 6.1):

Type I - 115 volts, 60 hertz (Hz), alternating current (ac) (symbol No. 297).  
 Type II - 28 volts, 60 Hz ac/direct current (dc) (symbol No. 297.1).

2. APPLICABLE DOCUMENTS

2.1 The following documents, of the issue in effect on date of invitation for bids or request for proposal, form a part of this specification to the extent specified herein:

SPECIFICATIONS

FEDERAL

TT-P-645 - Primer, Paint, Zinc-Chromate, Alkyd Type.

MILITARY

MIL-S-901 - Shock Tests, H.I. (High Impact); Shipboard Machinery, Equipment and Systems, Requirements For.  
 MIL-E-917 - Electric Power Equipment, Basic Requirements (Naval Shipboard Use).  
 MIL-D-1000 - Drawings, Engineering and Associated Lists.  
 MIL-D-1000/2 - Drawings, Engineering and Associated Lists.  
 MIL-P-15024 - Plates, Tags and Bands for Identification of Equipment.  
 MIL-P-15024/5 - Plates, Identification.  
 MIL-P-15071 - Manuals, Technical: Equipments and Systems Content Requirements For.  
 MIL-E-15130 - Enamel, Ship, Exterior, Alkyd, Haze Gray, No. 27, Formula No. 5H.  
 MIL-P-15137 - Provisioning Technical Documentation for Repair Parts for Electrical and Mechanical Equipment (Naval Shipboard Use).  
 MIL-I-45208 - Inspection System Requirements.

STANDARDS

FEDERAL

FED-STD-3 - Colors, Aeronautical Lighting.

MILITARY

MIL-STD-105 - Sampling Procedures and Tables for Inspection by Attributes.  
 MIL-STD-167 - Mechanical Vibrations of Shipboard Equipment.  
 MS15608 - Lamp, Incandescent, Par-64, Screw Terminal.

(Copies of specifications, standards, drawings, and publications required by suppliers 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.

NATIONAL BUREAU OF STANDARDS

Handbook H28 - Screw-Thread Standards for Federal Services.

(Application for copies should be addressed to the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402.)

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(Technical society and technical association specifications and standards are generally available for reference from libraries. They are also distributed among technical groups and using Federal agencies.)

### 3. REQUIREMENTS

3.1 Sample for first article inspection. Prior to beginning production a sample shall be examined and tested as specified in 4.2 (see 6.6). Production shall not be started until the contractor has furnished evidence that the sample has passed the first article tests.

### 3.2 General requirements.

3.2.1 Material. Material shall be as specified herein or shall meet the performance requirements as specified herein.

3.2.2 Nonmagnetic material. When specified (see 6.2), nonmagnetic material shall be substituted for magnetic material. The magnetic permeability shall be 2.0 or less after fabrication. When this requirement is not feasible, the supplier shall give detailed reasons and request waiver of the requirement.

3.2.3 Design. The signaling searchlight shall be designed in general conformance with figures 1 and 2. It shall be a device which produces a relatively narrow beam of light for use as a searchlight or for visual communication when the light beam is mechanically interrupted by means of a shutter mechanism. The device shall be suitable for use as a portable searchlight or for mounting on an adjustable mounting stand, and shall include suitable means for sighting and hand training the light beam on the desired target. The searchlight shall consist of the following assemblies:

- (a) Filter and cover frames.
- (b) Shutter.
- (c) Backshell.
- (d) Mounting.
- (e) Lamp.

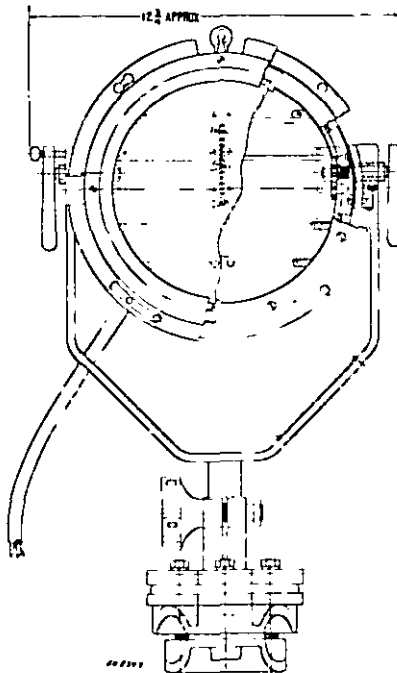


Figure 1 - Searchlight assembly, front view,  
signaling, 8 inch, incandescent.

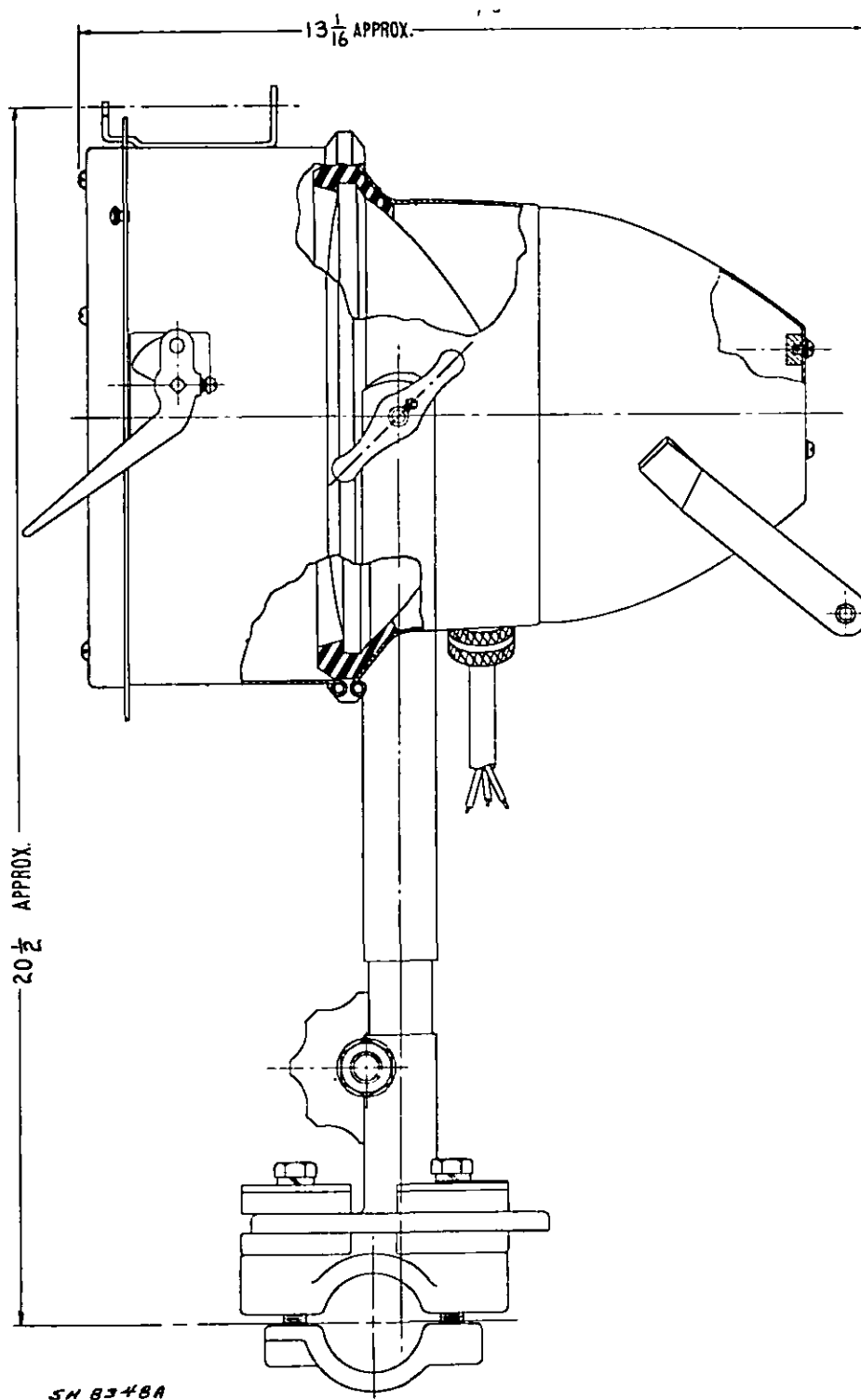


Figure 2 - Searchlight assembly, side view, signaling, 8 inch, incandescent.

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**3.2.4 Construction.** The searchlight shall be constructed for long service, without frequent overhaul, under severe conditions of shock, vibration, temperature, humidity, and salt atmosphere. The construction shall be simple and sturdy, and be such that the continued operation and ordinary maintenance in service do not require special tools or excessively precise workmanship. Special tools are defined as those tools not listed in the Federal Supply Catalog (copies of this catalog may be consulted in the office of the Defense Contract Administration Service (DCAS)).

**3.2.5 Painting of searchlight equipment.** Prior to painting, all metal surfaces shall be thoroughly cleaned in accordance with MIL-E-917 and given a corrosion-resistant treatment for the application of the paint finish specified herein. Metal surfaces shall be given two coats of zinc-chromate primer conforming to TT-P-645. The first priming coat shall be applied after all machine work has been completed and after all surfaces to be covered have been thoroughly cleaned and dried. The priming coats shall be followed by two coats of paint as specified in 3.2.5.1.

**3.2.5.1 Painting of external surfaces** shall conform to the color, gloss, flexibility, resistance to water immersion, and reflectance of MIL-E-15130. The paint shall not discolor or become soft when the searchlight is operated at rated voltage for a period of 2 hours, with the shutter closed. Internal surfaces shall be painted a dull black.

**3.3 Interchangeability.** All similar parts, including repair parts, of corresponding apparatus furnished on the same order or built to the same manufacturer's drawings shall be strictly interchangeable without the necessity of further machining or handling of any kind.

**3.4 Threaded parts.** Screw threads shall conform to the requirements of Handbook H28.

**3.5 Detail requirements.**

**3.5.1 Light tightness.** The searchlight shall be light tight when the lamp is energized, the shutter closed or open, and the front cover glass covered (no light shall be visible at any time from any part of the searchlight from a distance of 100 feet).

**3.5.2 Waterproofness.** The construction of the searchlight shall be such that no water that might interfere with the operation of the searchlight shall enter when the searchlight is subjected to the test specified in 4.6.2.

**3.5.3 Shockproofness.** The searchlight, less the lamp, shall be so designed as to withstand high impact shock as specified in MIL-S-901 without the fracturing or deformation of any parts of the assembly when tested as specified in 4.6.3.

**3.5.4 Vibration proofness.** The searchlight shall be designed to operate during vibration tests specified in 4.6.4. All fasteners (bolts, screws, screw clamps, rivets, etc.) shall remain tight and rigidly fixed and no damage shall be sustained by the assembly or its components.

**3.5.5 Corrosion resistance.** The searchlight shall not be impaired when tested as specified in 4.6.5.

**3.5.6 Insulation resistance.** The insulation resistance between all current-carrying and non-current-carrying parts shall be not less than 1 megohm (see 4.6.6).

**3.5.7 Dielectric strength.** There shall be no evidence of breakdown when the searchlight is subjected to the dielectric test specified in 4.6.6.

**3.5.8 Safety.** Particular care shall be taken in the design and construction of the searchlight to insure safety of the operating personnel from the dangers of electric shock and of contact with high temperatures. Effective electric grounding of the assembly shall be maintained at all times to prevent electric shock to personnel in contact with any parts of the unit.

**3.5.8.1 Electric shock.** Means shall be provided for automatically de-energizing the lamp terminals when the searchlight is opened for relamping.

**3.5.8.2 High temperatures.** Points, which may at any time become hot enough to cause personal injury, shall be heat insulated or the temperatures shall be maintained below 55°C, assuming an ambient temperature of 25°C.

3.6 Performance. The searchlight with the signaling shutter shall be capable of manually transmitting messages at speeds up to 15 words (300 operating cycles of the shutter) per minute. The beam spread shall be not less than 8 degrees horizontal by 7 degrees vertical.

3.6.1 Inclination. The searchlight shall be designed to provide for vertical adjustment of the beam axis of at least 60 degrees above and 45 degrees below the horizontal plane, and for turning the searchlight through a horizontal angle of at least 360 degrees. There shall be adjustments for securing the searchlight in all positions.

3.6.2 Operation. The searchlight shall give no indication of electrical or mechanical faults when tested in accordance with 4.6.9.

3.7 Component parts. The following assemblies of the searchlight shall be constructed so that fitting dimensions insure interchangeability with the corresponding assemblies of any searchlight furnished under this specification, without further machining or handfitting of any kind.

3.7.1 Filter frame. The filter frame assembly shall conform to figure 3 and shall support the glass filter. The filter frame shall be easily attached and detached from the cover frame without the use of tools. Three filter frames, each containing one glass filter of the following color and grade of glass in accordance with FED-STD-3 shall be furnished:

- (a) Aviation green, grade D.
- (b) Signal red, grade A.
- (c) Aviation yellow, grade B.

The glass shall be able to withstand a 1 foot-pound impact blow (see 4.6.3.1).

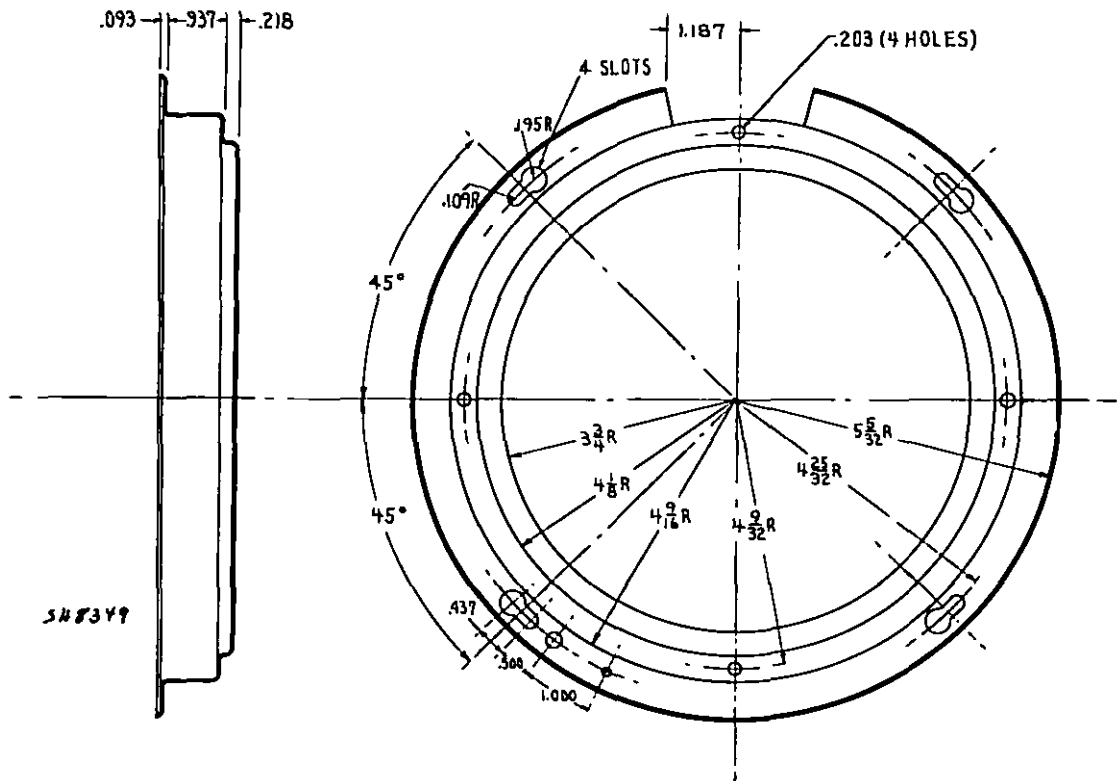


Figure 3 - Filter frame assembly.

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3.7.2 Cover frame. The cover frame shall conform to figure 4. The cover frame shall be capable of securing the cover glass to the shutter housing, and for supporting the filter frame.

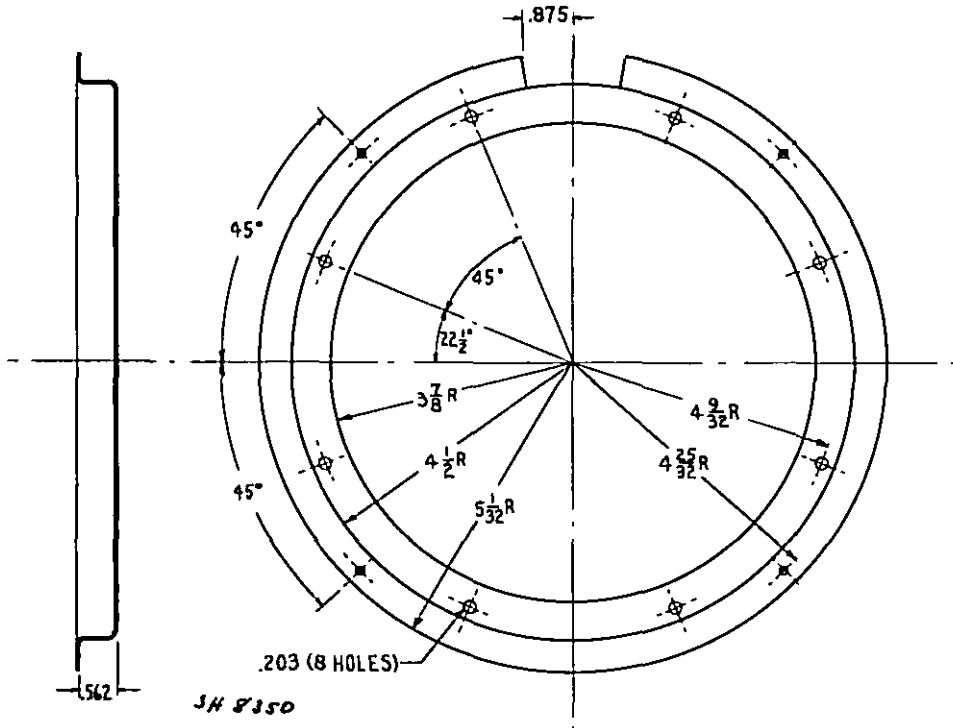


Figure 4 - Cover frame.

3.7.2.1 Cover glass. The cover glass shall be flat and not less than 3/16 inch thick. It shall be made of clear glass, free from bubbles, striae, checks, wrinkles, or other defects and blemishes, and shall be tempered for heat and shock resistance.

3.7.3 Shutter. The shutter assembly shall consist of a metal housing containing the shutter blades and their operating mechanism. The shutter assembly when installed, but fully opened, shall not reduce the peak beam candle power more than 25 percent.

3.7.3.1 Shutter housing. The housing shall conform to figure 5 and shall independently retain the shutter and shutter operating mechanism. The back end of the housing shall fit tightly to the gasketed lamp and backshell to form a watertight seal. Means shall be provided to insure proper alignment between the backshell, lamp gasket, and shutter housing. The housing shall be clamped to the backshell by means of a circular clamp ring with a quick release toggle lever for ease of lamp replacement (see figure 6). The front end of the housing shall be sealed with the cover frame and glass. Means shall be provided on the outside of the housing for supporting the searchlight in its mounting assembly.

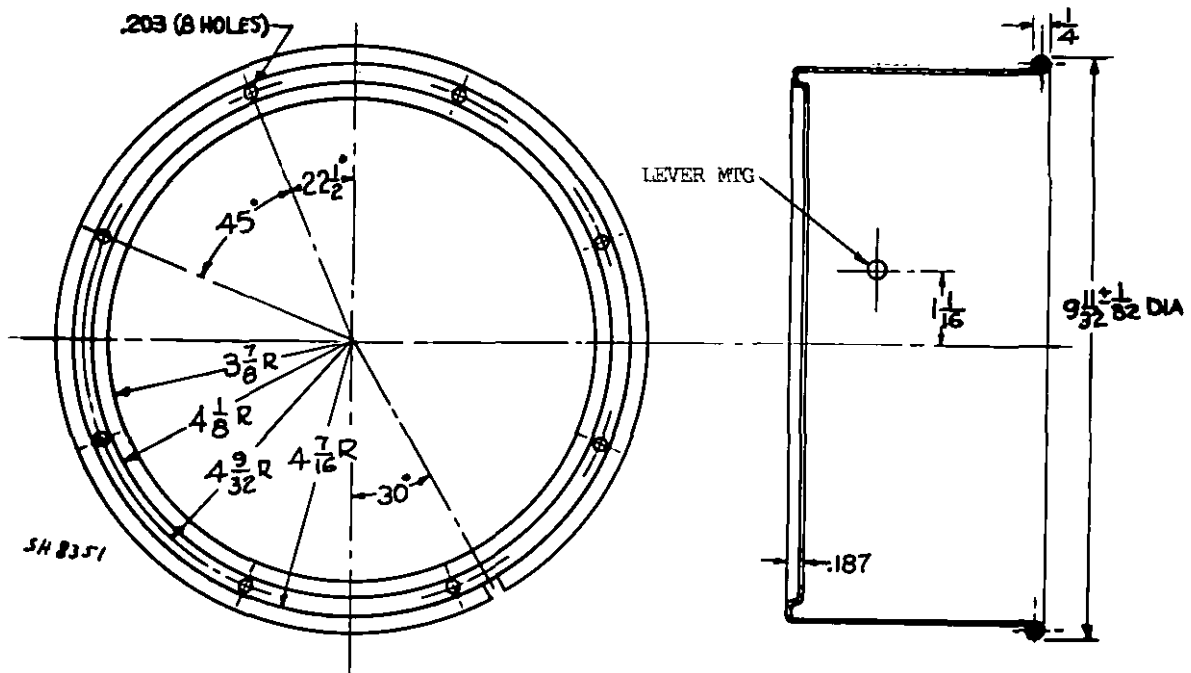


Figure 5 - Shutter housing.

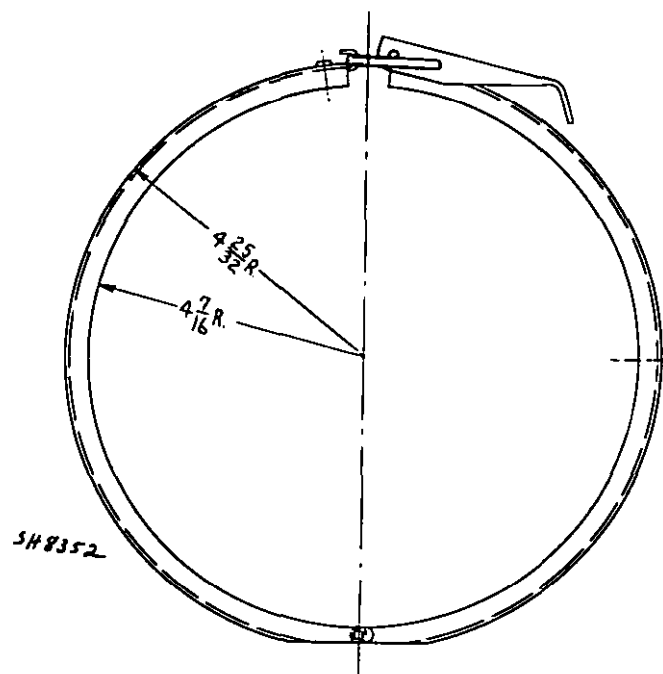


Figure 6 - Clamp ring.

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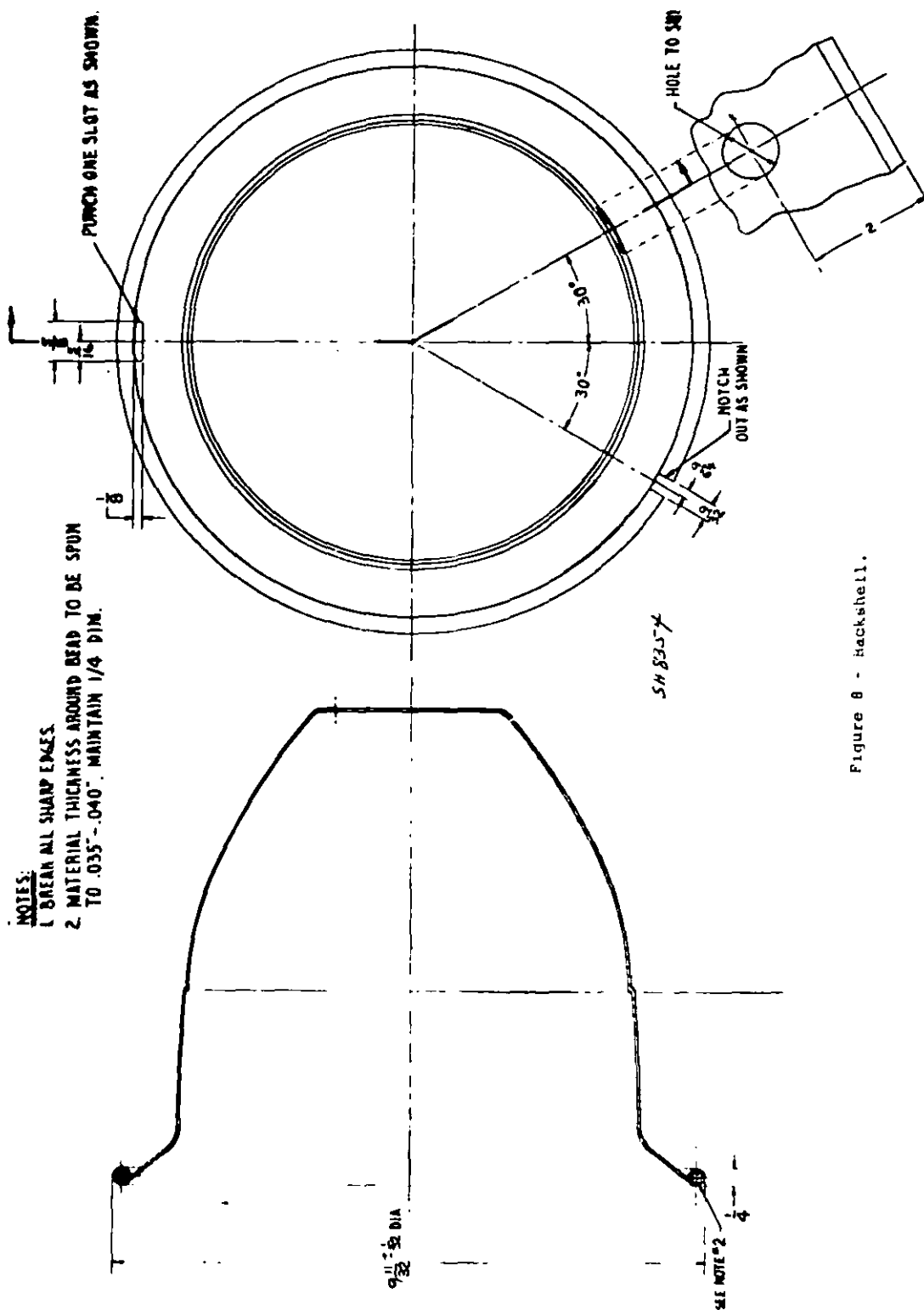
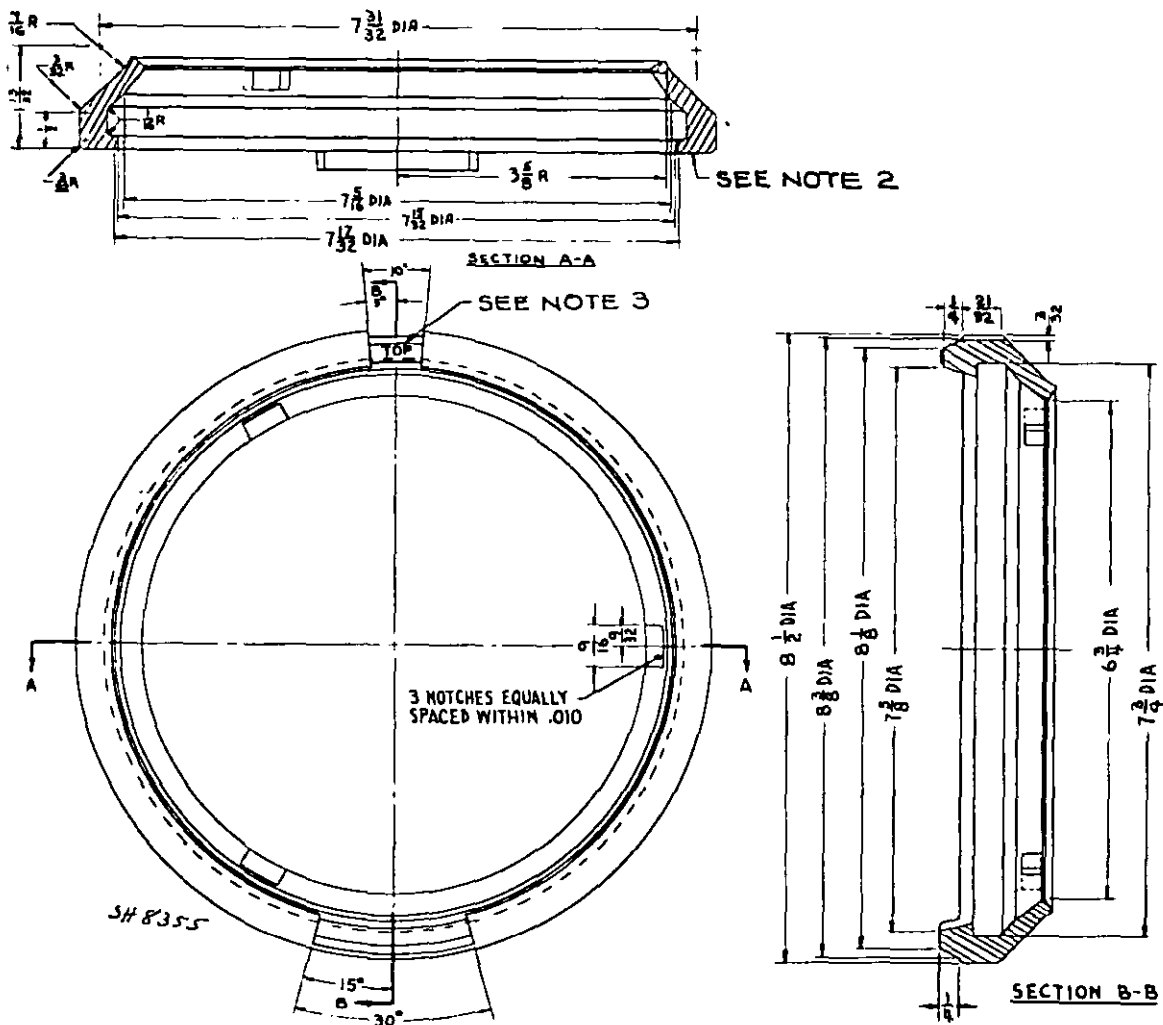


Figure 8 - Backshell.

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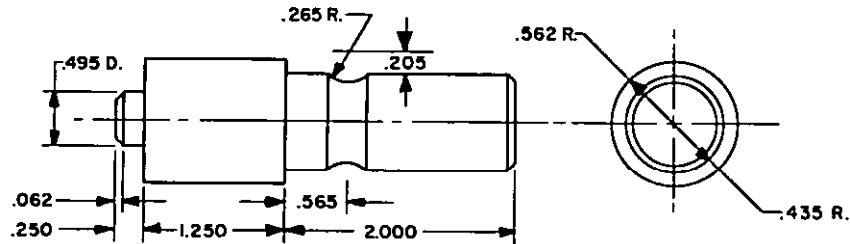
NOTES:

1. ALL CORNERS AND EDGES SHALL HAVE A 1/32 RADIUS UNLESS OTHERWISE SHOWN.
2. THIS SURFACE MUST BE SUBSTANTIALLY FLAT AFTER CURING.
3. "TOP" MOLDED IN APPROXIMATELY 3/16 INCH RAISED LETTERS 1/64 HIGH, ON TOP OF LOG.

Figure 9 - Lamp gasket.

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3.7.5 Mounting. The mounting base shall conform to figures 10 and 11 and shall be suitable for holding the searchlight mounting pivot in the vertical position and for clamping the searchlight in all horizontal positions. A grooved friction clamp will be considered a suitable method. The diameter of the bore shall permit a loose fit of the mounting pivot. The design shall be such that the mounting pivot shall not turn due to the inertia of the searchlight, and the searchlight shall not fall out of the mounting base when it is held in an inverted position or when subjected to the shock tests of 4.6.3. Rail clamps (see figure 12) to which the base can be secured shall be provided to mount the searchlight on a 1-1/4 inch size iron pipe rail.



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Figure 10 - Yoke stud.

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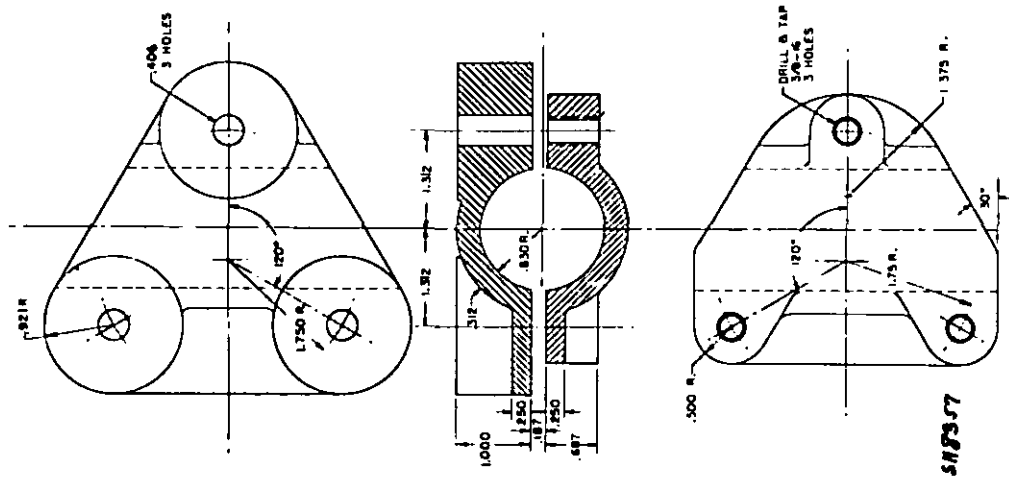


Figure 12 - Rail clamps.

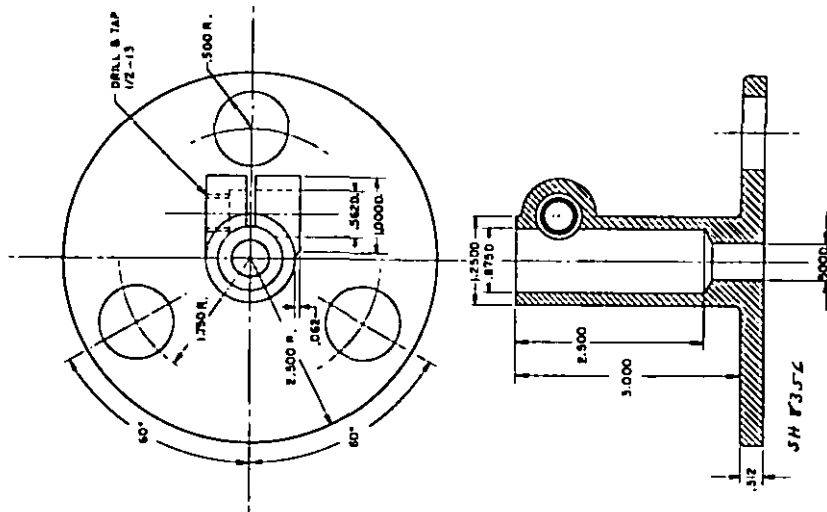


Figure 11 - Base.

### 3.8 Voltage.

3.8.1 Type I. Type I searchlights shall be designed for operation at 115 volts, 60 Hz ac with provisions of voltage reduction to 23 volts, 60 Hz for lamp operation.

3.8.2 Type II. Type II searchlights shall be designed for operation at 28 volts, 60 Hz ac/dc.

3.9 Lamp. The lamp shall be an incandescent type in accordance with Part Number MS15608-3 of MS15608.

3.10 Receptacle and searchlight cable plug. The receptacle, plug, and connecting cables between components shall be shipbuilder furnished equipment.

3.11 Repair parts. Onboard repair parts shall be furnished in accordance with MIL-P-15137 (see 6.3), and shall consist of the following items unless otherwise specified (see 6.2):

- 1 - glass cover.
- 1 - operating lever.
- 3 - springs, right side.
- 3 - springs, left side.
- 1 - lamp gasket.
- 3 - incandescent lamps.

3.12 Weight (searchlight). The searchlight, exclusive of the filter assembly, shall not exceed 18 pounds.

3.13 Drawings. Drawings shall be furnished and shall conform to category F, form 2 of MIL-D-1000 and type II of MIL-D-1000/2 and shall contain:

- (a) Name and model number assigned to the searchlight. Upon acceptance of the preliminary drawings the Naval Ship Engineering Center (NAVSEC) will assign the model number, which shall appear on the searchlight identification plate, all repair parts boxes, all manuals, and the assembly drawing. NAVSEC will also assign a model number for signaling shutter, which shall appear on the shutter, all manuals, and on the assembly drawing.
- (b) A list of repair parts, the name of each item, the quantity of each item being furnished in each set of repair parts and the manufacturer's ordering identification. This list shall be a duplicate of the list which is placed inside the repair parts box.
- (c) Table of weights:
  - (1) Weight of searchlight assembly, complete.
  - (2) Weight of repair parts, including boxes.
  - (3) Weight of searchlight, crated with repair parts box.
- (d) Dimensioned assembly outline (to scale) showing all principal dimensions in at least a front view and a side view.
- (e) Mounting plate or foot with detailed dimensions for mounting.
- (f) Painting instructions, including method of treatment of searchlight for painting, color, and applicable specification of paint.
- (g) Data which will appear on the searchlight identification plate to be supplied in accordance with the drawing.

3.14 Manuals. Manuals shall be furnished in accordance with type I of MIL-M-15071.

3.15 Identification and marking plates. Identification plates and other designating marking plates shall be made of corrosion-resisting steel or brass, in accordance with MIL-P-15024 and MIL-P-15024/5. These plates shall be of sufficient size, and shall be installed on and furnished as a part of the searchlight for which they are intended. They shall be attached to a part which will not ordinarily be renewed during its service life, and shall be located in a readily accessible position.

3.15.1 Data marked on the identification plate shall include the following items:

- (a) Manufacturer's name.
- (b) Identification symbols.
- (c) Searchlight serial number.
- (d) Contract number.
- (e) Date of manufacture (year).
- (f) "Eight-inch signaling searchlight, Model \_\_\_\_\_" (as assigned).

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- (g) The marking "NM" stamped or embossed on the identification plate to designate nonmagnetic material.
- (h) Blank space for DCAS official stamping.

## 4. QUALITY ASSURANCE PROVISIONS

# 4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the supplier is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or order, the supplier may use his own or any other facilities suitable for the performance of the inspection requirements specified herein, unless disapproved by the Government. The Government reserves the right to perform any of the inspections set forth in the specification where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements.

# 4.1.1 Inspection system. The inspection system which the supplier is required to maintain, as provided in the inspection clause of the contract or order, shall be in accordance with MIL-I-45208 (see 6.2 and 6.3).

4.2 First article inspection. First article inspection shall consist of the examination and tests specified in 4.5 and 4.6.

4.3 Sampling.

4.3.1 Lot. For purposes of sampling, a lot shall consist of not more than 100 searchlights offered for delivery at one time.

4.3.2 Sampling for quality conformance inspection. A random sample of searchlights shall be selected from each lot and shall be subjected to each of the inspections specified in 4.4 with sampling and quality conformance in accordance with inspection level III and AQL 1.5 (normal inspection) of MIL-STD-105.

4.4 Quality conformance inspection. Each of the sample searchlights selected in accordance with 4.3.2 shall be subjected to each of the following examination and tests and the results of each test compared with this specification:

<u>Examination and tests</u>	<u>Reference</u>
General examination	4.5.1 through 4.5.4
Safety	4.5.5
Inclination	4.5.6
Light tightness	4.6.1
Operation	4.6.9
Insulation resistance	4.6.6
Dielectric strength	4.6.6

4.5 General examination.

4.5.1 Visual and dimensional examination. Each sample searchlight shall be visually and dimensionally examined to determine conformance with this specification and applicable drawings.

4.5.2 Adjustment, fit, and materials. The sample searchlights shall be subjected to a thorough examination to ascertain that the design, materials, workmanship and weight are in strict conformity with this specification. Each component part of the searchlight shall be inspected for its general ruggedness, apparent shockproofness and reliability with respect to its probable service life. The fit of parts shall be observed with particular reference to the interchangeability of such parts as are likely to require replacement during normal service life of the equipment.

4.5.3 Interchangeability. Examination shall be made to verify compliance with the requirement of 3.3.

4.5.4 Repair parts. All repair parts of sample searchlights shall be subjected to a careful examination to ascertain that the materials, workmanship, and finish comply fully with the manufacturer's accepted drawing.

4.5.5 Safety. Each sample searchlight shall be examined to determine conformance to 3.5.8.

4.5.6 Inclination. The sample searchlights shall be examined to verify compliance with the requirements of 3.6.1.

#### 4.6 Test.

4.6.1 Light tightness. The light tightness of the searchlight, with the lamp burning at rated voltage, shall be checked to determine compliance with 3.5.1 both with and without the shutter in operation. This test shall be made with the cover glass completely covered.

4.6.2 Waterproofness. Compliance with 3.5.2 shall be checked by playing a stream of water from a hose 1 inch in diameter under a head of approximately 35 feet from a distance of 10 feet on the searchlight for 60 minutes. The stream shall be projected against the searchlight from all directions, including the bottom. During this test the searchlight shall be operated in the horizontal position.

4.6.3 Shock. The searchlight, less the lamp, shall be tested for shockproofness in accordance with MIL-S-901 (see 3.5.3). The classification of the shock test shall be type "A" for the lightweight equipment.

4.6.3.1 Filters. Samples of glasses with all surfaces fully abraded shall be placed on a wooden block and arranged concentrically over a hole in the block having an approximate diameter of 7 inches. Breakage of samples tested shall not exceed 20 percent when a 1 foot-pound impact blow is applied with a steel ball, weighing 1/2 pound, striking the approximate center of the plate.

4.6.4 Vibration. The searchlight shall be tested for environmental vibration in accordance with type I of MIL-STD-167.

4.6.5 Salt spray test. The searchlight unit, complete with signaling shutter and with lamp burning at rated voltage in cycles of operation consisting of 12 minutes on and 12 minutes off, shall be placed in a salt spray machine, and subjected to the following test:

- (a) The searchlight shall be subjected to the action of a salt spray for 200 hours. This salt spray shall consist of a spray of a 20 percent solution by weight of commercially pure sodium chloride in distilled water. The spray shall be at 55°C and shall be applied alternately with a 3-minute drying period of air at 55°C producing a 3-minute wet and 3-minute dry condition continuously under ultra-violet light. Upon completion of the test, the searchlight shall be washed with fresh water and examined.
- (b) Careful examination after the salt spray test shall show no damaging effect to the unit due to the salt spray. In addition, the searchlight shall function satisfactorily after the test. Lock-washers shall be thoroughly examined.

4.6.6 Insulation resistance and dielectric strength. Insulation resistance and dielectric strength tests shall be made, to determine conformance with 3.5.6 and 3.5.7, as follows:

- (a) Before any other tests.
- (b) After waterproofness test (see 4.6.2).
- (c) Twenty-four hours after salt spray test (see 4.6.5).

These tests shall be applied both cold and after the light has reached its maximum operating temperatures, when operated in an ambient air temperature of 25°C.

4.6.6.1 Insulation resistance. The insulation resistance with 500 volts applied between each conductor, where possible, without component damage (with the lamp removed) and between all conductors and the searchlight frame (with the lamp installed) shall conform with 3.5.6. The insulation resistance shall be taken before and after each dielectric strength test.

4.6.6.2 Dielectric strength. A 60 Hertz, voltage whose effective potential is 1,240 volts shall be applied between conductors, where possible, without component damage (with the lamp removed) and between all conductors and searchlight frame (with the lamp installed).

4.6.7 Life test. The life test shall include operation for 3,000,000 cycles of the shutter at a rate of 200 cycles per minute. (A cycle consists of the movement of the shutter from the completely closed to the completely open positions and return to the completely closed position.) The shutter shall be attached to the drum for this test, and the lamp shall be burned at rated voltage throughout the duration of the test. This test shall also constitute a reliability test for the complete searchlight and failure of any searchlight component (excluding the lamp) during the shutter operation and salt spray tests shall be deemed a searchlight failure and cause for rejection. All bearings of the shutter shall be

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lubricated at intervals of 250,000 cycles. The test shall be divided into two parts as follows:

- (a) 1,500,000 cycles of operation of the shutter shall be performed prior to conducting the salt spray test specified in 4.6.5.
- (b) 1,500,000 cycles of operation of the shutter shall be performed after conducting the salt spray test specified in 4.6.5, and the shock test specified in 4.6.3. Care shall be taken to remove salt incrustation after the salt spray test, and to lubricate the shutter bearings prior to beginning the shutter operation test.

The torque in inch-pounds shall be recorded at the beginning and end of each half of the operating test. Tests shall also be made to determine that messages transmitted with the searchlight at speeds up to 300 operating cycles per minute can be read by an experienced signalman. For this purpose, the variation in light output caused by the shutter shall be measured by means of an oscillograph or other suitable measuring device. This determination shall be made both prior to, and upon completion of the shutter operation test.

#### 4.6.8 Illumination.

4.6.8.1 Method of measurement. The method of measurement shall be in accordance with the current practices of the test facility at which the tests are being made.

4.6.8.2 Measurements required. Beam candlepower data shall be taken and recorded to determine compliance with the requirements of 3.6 and 3.7.3 concerning beam spread and peak beam candlepower reduction caused by the shutter.

4.6.8.2.1 In determining the reduction in peak beam candlepower caused by the shutter, the cover glass shall be removed and the shutter adjusted to produce minimum reduction in beam candlepower when completely open.

4.6.9 Operation. The searchlight shall be tested for compliance with 3.6.2 when operated at rated current, voltage, and frequency in a cycle of 1/2 hour on, 1/2 hour off for 5 hours.

### 5. PREPARATION FOR DELIVERY

(The preparation for delivery requirements specified herein apply only for direct Government procurements. For the extent of applicability of the preparation for delivery requirements of referenced documents listed in section 2, see 6.7.)

5.1 Preservation, packaging, packing and marking. Searchlights shall be preserved and packaged level A or C; packed level A or B as specified (see 6.1), and marked in accordance with MIL-E-17555. Method III shall apply for level A preservation and packaging.)

### 6. NOTES

6.1 Intended use. The searchlights covered by this specification are intended for use as portable, lightweight, high-intensity signaling searchlights for shipboard use.

#### 6.2 Ordering data.

6.2.1 Procurement requirements. Procurement documents should specify the following:

- (a) Title, number, and date of this specification.
- (b) Type required (see 1.2).
- (c) Whether nonmagnetic material is required (see 3.2.2).
- (d) Quantity of onboard repair parts required if different from 3.10.
- (e) Inspection system requirements (see 4.1.1).
- (f) Preservation, packaging and packing or marking required.

6.2.2 Contract data requirements. Data generated by this document are not deliverable unless specified on the Contract Data Requirements List (DD Form 1423) or the contract schedule. The data required by this specification include, but are not restricted to the following:

- (a) Drawings for searchlights (see 3.13).
- (b) Technical manuals in accordance with MIL-M-15071, if required (see 3.14).



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6.3 Management control system documents. The following management control system documents should be included on DD form 1660:

- (a) MIL-P-15137 (see 3.10).
- (b) MIL-I-45208 (see 4.1.1).

6.4 Departures from the general features of design specified in this specification should be fully described in bids.

6.5 The bidder will include in the bid a list of nonmagnetic materials he proposes to furnish for the various searchlight components. The magnetic permeability will be indicated for each material.

6.6 First article inspection. Invitations for bids should provide that the Government reserves the right to waive the requirement for samples for first article inspection as to those bidders offering a product which has been previously procured or tested by the Government, and that bidders offering such products, who wish to rely on such production or test, must furnish evidence with the bid that prior Government approval is presently appropriate for the pending procurement.

6.7 Sub-contracted material and parts. The preparation for delivery requirements of referenced documents listed in Section 2 do not apply when material and parts are procured by the supplier for incorporation into the equipment and lose their separate identity when the equipment is shipped.

6.8 THE MARGINS OF THIS SPECIFICATION ARE MARKED "\*" TO INDICATE WHERE CHANGES (ADDITIONS, MODIFICATIONS, CORRECTIONS, DELETIONS) FROM THE PREVIOUS ISSUE WERE MADE. THIS WAS DONE AS A CONVENIENCE ONLY AND THE GOVERNMENT ASSUMES NO LIABILITY WHATSOEVER FOR ANY INACCURACIES IN THESE NOTATIONS. BIDDERS AND CONTRACTORS ARE CAUTIONED TO EVALUATE THE REQUIREMENTS OF THIS DOCUMENT BASED ON THE ENTIRE CONTENT WRITTEN IRRESPECTIVE OF THE MARGINAL NOTATIONS AND RELATIONSHIP TO THE LAST PREVIOUS ISSUE.

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Navy - SH  
(Project 6230-N195)

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## STANDARDIZATION DOCUMENT IMPROVEMENT PROPOSAL

OMB Approval  
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