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MILITARY SPECIFICATION

LAMPS, INCANDESCENT, AIRCRAFT SERVICE
GENERAL SPECIFICATION FOR

This amendment forms a part of Military Specification MIL-L-6363F dated 6 July 1987, and is approved for use by all Departments and Agencies of the Department of Defense.

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In list of applicable documents, delete "MIL-STD-143" and substitute "MIL-STD-970."

3.3 Selection of specifications and standards. Delete "MIL-STD-143" and substitute "MIL-STD-970" at end of paragraph.

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3.5.7 Filament. Add the following new sentence:

"When not specified by the detail specification, the filament arrangement and support shall be at the manufacturer's option, to meet the performance and environmental requirements specified herein and in the applicable detail specification."

3.5.8 Optional design. Delete the last sentence and substitute the following:

"Only changes in design which affect form, fit or function of the lamp shall be approved by the procuring contracting officer."

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Add a new paragraph 3.8 as follows:

"3.8 Examination of product. Lamps shall be dimensionally inspected for conformance to the applicable detail specification and visually examined for conformance to workmanship (see 4.6.1)."

3.8 Workmanship. Renumber to paragraph number "3.9." In third sentence, change the comma after the word "cleaned" to a period. Start next sentence with the word "Loose." Delete last sentence of the paragraph.

4.3 Inspection conditions. Delete reference "(see 6.2)."

4.3.1 Light output criteria. Delete reference "(see 6.2)."

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4.3.3 Lamp operation. Renumber to paragraph "4.3.2."

4.3.4 Lamp mounting. Renumber to paragraph "4.3.3" and delete reference "(see 6.2)."

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4.3.4 Precautions. In subparagraph "a." add minus (-) sign to +5°C.

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4.5.1 In-process inspection. In last sentence, add comma (,) between "product" and "ratings."

4.5.3.1 Delete paragraph and substitute the following:

"4.5.3.1 Inspection lot in-process screening. Each inspection lot shall be screened for random vibration in accordance with the sampling level and acceptance quality level (AQL) of MIL-STD-105 specified in the applicable detail specification. . Failures exceeding the acceptable AQL shall be cause for rejection of the entire lot. The balance of the rejected lot shall be 100 percent screened for random vibration before being submitted for acceptance. Those lamps which fail during the screening test shall not be submitted for delivery under the contract or purchase order."

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4.5.3.1.1 Delete paragraph and substitute the following:

"4.5.3.1.1 Random vibration screening. The lamps shall be subjected to random vibration for ten (10) minutes; five (5) minutes non-operating immediately followed by five (5) minutes operating at normal rated voltage with the direction of vibration in the "Z" axis as shown in the applicable detail specification. The vibration spectrum shall be between 10 and 2000 Hz per Figure 1. The specified spectral density value shall be within ±1.5 dB between 80 and 350 Hz. The tolerance for power spectral density values for the positive and negative slopes shall be within ±3 dB. The overall RMS value shall be approximately 6g RMS."

4.5.3.2 Group A and B inspection. Delete the period at the end of the second sentence and add the following:

"except for random vibration screening which shall be as specified in the applicable detail specification."

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4.5.3.3.1 Noncompliance. Delete the second and third sentences and substitute the following:

"Acceptance and shipment of lamps shall be discontinued until corrective action acceptable to the qualifying activity representative or cognizant inspection activity has been taken. After corrective action has been taken, Group C inspection shall be repeated on additional sample lamps (all tests and examinations, or the test which the original sample failed), at the option of the qualifying activity representative or the cognizant inspection activity."

4.6.1 Examination of product. Add "visually and dimensionally" between the words "be" and "examined."

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TABLE II. Under Group B inspection, add "Random vibration screening" and inspection paragraph "4.5.3.1."

4.6.5 Delete the paragraph and substitute the following:

"4.6.5 Light output maintenance. The sample group lamps shall be tested to determine that at 70 percent of the specified average rated life, the average light output of the sample group does not fall below 80 percent of the minimum initial light output specified in the applicable detail specification."

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4.6.9.1 Delete the paragraph and substitute the following:

"4.6.9.1 Vibration system control and analysis. The output of the vibration machine shall be presented graphically as power-spectral density (G^2/Hz) versus frequency. The spectral density values shall be within ±1.5 dB along the flat portion of the vibration curve and within ±3 dB along the sloped portions of the curve, as specified on the applicable detail specification. The vibration apparatus control and analysis of vibration shall be in accordance with Test Method 214, MIL-STD-202."

4.6.9.2 Delete the paragraph and substitute the following:

"4.6.9.2 Test setup applicable to all lamps. Lamps shall be vibrated for a total of 30 minutes; 7.5 minutes with the lamps non-operating and 22.5 minutes with the lamps operating at rated voltage. Non-operating vibration shall be in the "Z" axis as indicated in the applicable detail specification. During the operating mode, the lamps shall be vibrated for 7.5 minutes in each of the three (3) mutually perpendicular axes as defined in the applicable detail specification. The vibration with lamps operating shall start immediately after lamps are lit without any additional burn-in. Either the fixture and/or the lamps may be rotated to achieve the positioning of lamps in each of the axes."

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5.1 and 5.2 Change "as specified in 6.2.e" to "as specified in 6.2.d."

Custodians:
Army - AV
Navy - AS
Air Force - 99

Review activities:
DLA - GS
Air Force - 11, 82
Navy - SH

Preparing activity:
Navy - AS
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