

MIL-L-6484C  
AMENDMENT 3  
2 Apr 84  
SUPERSEDING  
AMENDMENT 2  
15 Jul 1969

MILITARY SPECIFICATION  
LIGHTS, COCKPIT UTILITY, AIRCRAFT  
GENERAL SPECIFICATION FOR

This amendment forms a part of Military Specification MIL-L-6484C dated 6 December 1965, and is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 1

\*Delete preamble and substitute:

"This specification is approved for use by all Departments and Agencies of the Department of Defense."

Following 1.1 add the following new paragraph:

"1.2 Classification. The cockpit utility lights covered by this specification shall be of the following types as specified (see 6.2e).

Type I - with mounting base  
Type II - without mounting base"

\*2.1, delete and substitute: "2.1 Government documents."

\*Add: "2.1.1 Specifications, standards, and handbooks. Unless otherwise specified, the following specifications, standards, and handbooks of the issue listed in that issue of the Department of Defense Index of Specifications and Standards (DoDISS) specified in the solicitation form a part of this specification to the extent specified herein."

Under SPECIFICATION capitalize "FEDERAL" and "MILITARY."

Under SPECIFICATION, Military, delete "MIL-D-70327" and substitute "DOD-D-1000."

Under STANDARDS capitalize "MILITARY."

Add the DD Form 1426 note on the bottom center of the first page immediately above the FSC designation:

"Beneficial comments (recommendations, additions, deletions) and any pertinent data which may be of use in improving this document should be addressed to: the Engineering Division, San Antonio ALC/MMEDO, Kelly AFB, TX 78241 by using the self addressed Standardization Document Improvement Proposal (DD Form 1426) appearing at the end of this document or by letter."

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Under STANDARDS, MILITARY add, "MS17245 Light, Cockpit Utility."

Delete the parenthetical source paragraph at the end of 2.1.1 and substitute:

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

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\*Add: "2.1.2 Order of precedence. In the event of a conflict between the text of this specification and the references cited herein, the text of this specification shall take precedence."

\*3.1, line 2: Delete "MS drawing" and add "MS17245".

\*3.2, line 3-12: Delete and substitute:

<u>Item No</u>	<u>Paragraph No</u>	<u>Item Name</u>
1	3.8.1	Housing Assembly
2	3.8.2	Focusing Device
3	3.8.3	Rheostat
4	3.8.4	Lamp Socket
5	3.8.5	Filter Assembly
6	3.8.6	Switch
7	3.8.7	Mounting Base
8	3.8.7.1	Mount
9	3.8.8	Cord
10	3.8.9	Lamp

Delete paragraph 3.3 in its entirety.

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\*3.8.3, line 6, 7, and 8: Delete and substitute, "Rotation of the rheostat in a clockwise rotation from the detented "off" position shall increase the lamp intensity until it reaches the mechanical stop position. The rheostat knob shall be of a serrated or indented configuration and large enough for ease of operation."

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\*3.8.7, delete and substitute:

"3.8.7 Mounting base. The light shall be provided with a mounting base, manufactured in accordance with MS17246 unless specified without a mounting base by adding "A" to MS part number. The force required to remove the light out of the mounting base shall be greater than 1 and less than 5 pounds."

\*3.8.7.1, delete and substitute:

"3.8.7.1 Mount. The mount on the cockpit light assemblies shall be designed for installing the lights in the MS17246 mounting base. The design of the mount shall be one of two types, straight or offset. The straight mount shall be such as to permit the beam of the light assembly to be raised or lowered not less than 35 degrees above or below a plane through the axis of symmetry of the assembly. The offset mount shall be capable of rotating the beam of the light not less than 90 degrees in a plane perpendicular to the surface of the mounting base. Both mounts as specified in applicable specification sheets or MS drawings shall be capable of rotating the beam of the light 360 degrees parallel to the mounting surface."

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\*3.8.8, line 12: Delete "Mounting" and substitute "Mount".

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\*3.10, line 4: Delete "MIL-D-70327" and substitute "DOD-D-1000".

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\*3.15, line 5: Delete "Type No (if used)" and substitute "MS Part No (Without base)".

Line 8, delete "Federal Stock No", and add "National Stock Number (Without base)".

\*4.1, delete and substitute:

"4.1 Responsibility for inspection. Unless otherwise specified in the contract or purchase order, the contractor is responsible for the performance of all inspection requirements as specified herein. Except as otherwise specified in the contract or purchase order, the contractor 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 document where such inspections are deemed necessary to assure supplies and services conform to prescribed requirements."

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TABLE I: Under Sample No 2 delete "d. Salt spray" and substitute "d. Salt fog".

\*4.4.3.2, line 6: Delete "to a length of not less than 3 feet" and add "The pulling force to remove the light out of the mounting base shall be greater than 1 and less than 5 pounds. The cord shall then be stretched to a length of 5 feet and held for 2 hours."

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\*4.4.3.3.3, line 3: Delete "It shall then be removed and the cord stretched approximately 3 feet." and add "It shall then be removed with a force greater than 1 and less than 5 pounds and stretched to 5 feet and held for 2 hours."

4.4.3.5: Delete and substitute:

"4.4.3.5 Salt fog. The light assembly shall be subjected to salt fog, Procedure I, method 5, MIL-STD-810 for 50 hours. Immediately at the end of the test period the external surface of the light assembly shall be washed with distilled water and air-dried. The light assembly shall be operated and shall meet the requirements of the Operation Test (see 4.5.1.2)".

4.4.3.8: Delete and substitute:

"4.4.3.8 Humidity. The light assembly shall be subjected to the humidity tests, Procedure I, method 507 of MIL-STD-810. The light assembly shall be thoroughly dried, with air blast if necessary, to assure that all water has been removed from the light assembly before checking for proper operation."

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\*4.4.3.11, line 2: Delete "and 4.4.3.11.2" and add, "4.4.3.11.2 and 4.4.3.11.3".

\*Add:

"4.4.3.11.3 Cord test. A force of 20 pounds shall be applied to the cord at the point it enters the light. The force shall be directed so that it will tend to pull the cord from the light and shall be applied for 5 minutes. A weight of 5 pounds shall be suspended from the end of the coiled cord and permitted to remain there for 3 minutes and then removed and the cord allowed to return and remain in retracted position for 1 minute. This procedure of suspending the weight and removing it shall be repeated for 10 cycles. At the end of the 10th cycle the cord should return to less than 120 percent of its retracted length. Within 6 hours the coiled cord shall have returned to original length. A weight of 2 pounds shall then be suspended from the end of the coiled cord and the extended length shall be longer than 50 inches and less than 72 inches."

\*4.5.1.2, add "Proper operation shall consist of 4.5.1.2.1, 4.5.1.2.2, 4.5.1.2.3, 4.5.1.2.4 and 4.5.1.2.5 while leads are connected to 28VDC  $\pm$  IVDC power supply monitoring the current."

\*Add:

"4.5.1.2.1 Rheostat. Rotate rheostat from "off" position to variable intensity on with a clockwise torque greater than 4 and less than 16 in oz. In the variable on position rotate rheostat smoothly and continuously from dim to bright in a clockwise direction in 180 degrees to 360 degrees rotation with a torque less than 8 in oz and greater than 2 in oz. The detent shall be at least 1 in oz greater than variable "on" rotation.

4.5.1.2.2 Focusing device. Aim the light at a projector screen, 1 foot from the filament, perpendicular to the beam of the light. With the rheostat in brightest position and lamp emitting white light, the lamp shall be adjusted from wide flood 5 inch diameter circle of light not less than 5 Candela (C) to spotlight 2 inch diameter circle of light not less than 15 C. In both flood and spot position the luminous intensity shall be uniform and evenly distributed with the intensity not varying greater than 12 C in the specified circles. There shall also not be any light lines or shadow cast on the projection screen in these specified circles.

4.5.1.2.3 Red filter. Lock filter to emit red light and repeat 4.5.1.2.1 and 4.5.1.2.2 except the candlepower requirements are reduced to 1 C for flood and 3 C for spotlight.

4.5.1.2.4 Momentary switch. Depress at least 1/2 inch diameter momentary switch while rheostat is in "off" position with 5 to 20 oz of force for activation and holding. The light shall emit bright light in any combination of flood or spotlight with no filter or red filter.

4.5.1.2.5 Current drain. The amp meter used in monitoring the current shall never indicate larger current drain than 3 amps in 4.5.1.2.1, 4.5.1.2.2, 4.5.1.2.3 or 4.5.1.2.4."

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Delete and substitute:

- \*Paragraph 5, delete "Preparation for Delivery" and substitute "Packaging."
- \*Paragraph 5.1, delete in its entirety and substitute "5.1 Preservation.  
Preservation shall be level A or commercial, as specified (see 6.2)."
- \*Paragraph 5.1.2, delete the paragraph and substitute "unless otherwise specified in the contract or order, each light shall be individually preserved in accordance with MIL-STD-1188."
- \*Paragraph 5.2, delete "C" and substitute "commercial."
- \*Paragraph 5.2.1, delete "PPP-B-636" and substitute "PPP-B-601."
- \*Paragraph 5.2.3, delete paragraph and substitute "Lights preserved as specified in 5.11 be packed in accordance with MIL-STD-1188."
- \*Paragraph 5.3, delete in its entirety.
- \*Paragraph 5.4, delete in its entirety and substitute "5.4 Marking."

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\*Add paragraph "5.4.1 Military. Marking for Military levels of protection (level A or B) shall be in accordance with MIL-STD-129. The nomenclature shall be as follows:

Light, Cockpit, Utility, Aircraft  
Stock Number  
MS Part Number  
Manufacturer's Part Number  
Specification MIL-L-6484C  
Contract or Purchase Order Number"

\*Add paragraph 5.4.2 Commercial. Marking for commercial packaging shall be in accordance with MIL-STD-1188.

6.2: Add:

"e. Type required (Type I with mounting base, Type II without mounting base) (see 1.2)."

Delete and substitute:

\*6.3 Qualification. With respect to products requiring qualification, awards will be made only for products which are, at the time set for opening of bids, qualified for inclusion in the applicable Qualified Products List whether or not such products have actually been so listed by that date. The attention of the contractors is called to these requirements, and manufacturers are urged to arrange to have the products that they propose to offer to the Federal Government tested for qualification in order that they may be eligible to be awarded contracts or purchase orders for the products covered by this specification. The activity responsible for the Qualified Products List is the Engineering Division, San Antonio Air Logistics Center/MMEDO, Kelly Air Force Base TX 78241, and information pertaining to qualification of products may be obtained from that activity.

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Delete and substitute:

\*6.4 Changes from previous issue. The margins of this document are marked with an asterisk 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, irrespective of the marginal notations and relationship to the last previous issue.

\*Concluding material: Delete in its entirety and substitute:

"Custodian:  
Army - AV  
Navy - AS  
Air Force - 99

Preparing activity:  
Air Force - 82

Review activities:  
DLA GS

(Project 6220-0283)"