INCH-POUND

MIL-DTL-6363/2C
30 September 1997
SUPERSEDING
MIL-L-6363/2B
15 September 1989

DETAIL SPECIFICATION SHEET

LAMPS, INCANDESCENT, AIRCRAFT USE, SINGLE CONTACT BAYONET CANDELABRA BASE, REFLECTOR TYPE

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

The requirements for acquiring the product described herein shall consist of this specification and MIL-DTL-6363.

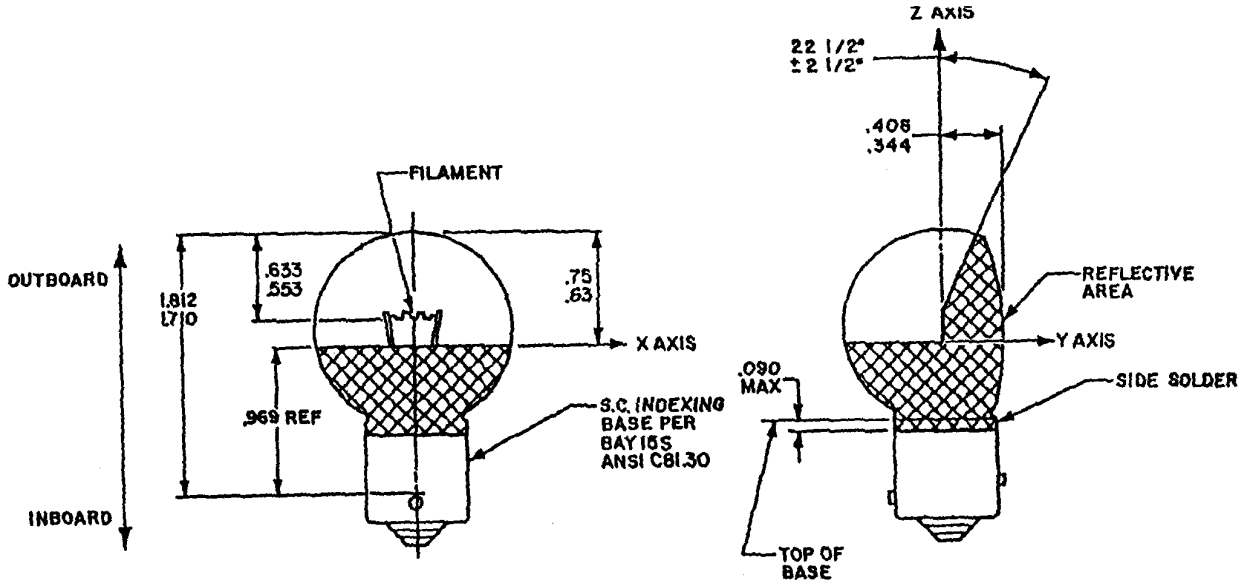

FIGURE 1. Configuration and dimensions.

See NOTES on the next page.

NOTES:
1. Dimensions are in inches. Unless otherwise specified, tolerances: decimals ±0.010 inch, angles ±0.5°.
2. Intended use - aircraft navigational light assemblies.
3. For design feature purposes, this specification takes precedence over procurement documents referenced herein.

REQUIREMENTS:

1. Configuration and dimensions: See figure 1.

2. Finish: Glass globe shall be clear except where reflector surface is required.

3. Lamp operating characteristics: When operating at rated voltage (DC), the lamp operating characteristics shall be as specified in table I.

TABLE I. Part numbers and operating characteristics.

Military Part Number	Type Per MIL-DTL-6363	Temp Rating Continuous Operation 1/		Shock Test Level (G's)	Electrical Ratings			Average Rated Lab Life at DC
		°C	°F		Volts (Nom)	Amperes (Max)	Watts (Max)	Hours
M6363/2-1	II	140	285	135	6.2	4.56	28	300
M6363/2-2	II	140	285	90	28.0	1.00	28	300

1/ For 70 percent of average rated lab life.

4. Light distribution: See tables II and III.

TABLE II. Light distribution (horizontal plane).

LIGHT DISTRIBUTION IN HORIZONTAL PLANE CONTAINING FLIGHT AXIS (0°) AND PASSING THROUGH LIGHT CENTER AND CENTER OF INDEXING PINS

Military Part Number	Beam Candlepower Candelas (Minimum)	Angle of Distribution
M6363/2-1	200	2° inboard to 15° outboard
	25	15° outboard to 100° outboard
M6363/2-2	200	2° inboard to 15° outboard
	25	15° outboard to 100° outboard

TABLE III. Light distribution (vertical plane).

LIGHT DISTRIBUTION IN VERTICAL PLANE CONTAINING FLIGHT AXIS (0°) AND PASSING THROUGH LIGHT CENTER AND PERPENDICULAR TO HORIZONTAL PLANE ABOVE

Military Part Number	Beam Candlepower Candelas (Minimum)	Angle of Distribution
M6363/2-1	180	0° to 20° above and below flight axis
	20	20° to 80° above and below flight axis
M6363/2-2	180	0° to 20° above and below flight axis
	20	20° to 80° above and below flight axis

5. Coating adhesion: Applicable.

6. High temperature: See table I for applicable high temperature rating.

7. Thermal shock: See table I for applicable high temperature rating.

8. Random vibration: See figure 2 for 28.0v lamp and figure 3 for 6.2v lamp random vibration curves.

9. Shock: See table I for applicable “g” level.

10. Humidity: Applicable.

11. Salt spray: Applicable

12. Inspection lot vibration screening: Sample size and acceptance level as specified by the procuring activity.

13. Marking: Lamps shall be marked with the applicable military part number from table I, voltage rating, manufacturing lot code, and the manufacturer’s name, CAGE code, abbreviation or trademark. Other military or commercial lamp numbers shall not be marked on the lamps.

14. Interchangeability: These lamps may be similar to, but are not interchangeable with, other commercial or military lamps due to unique aircraft applications and qualification.

There are no technical changes in this revision.

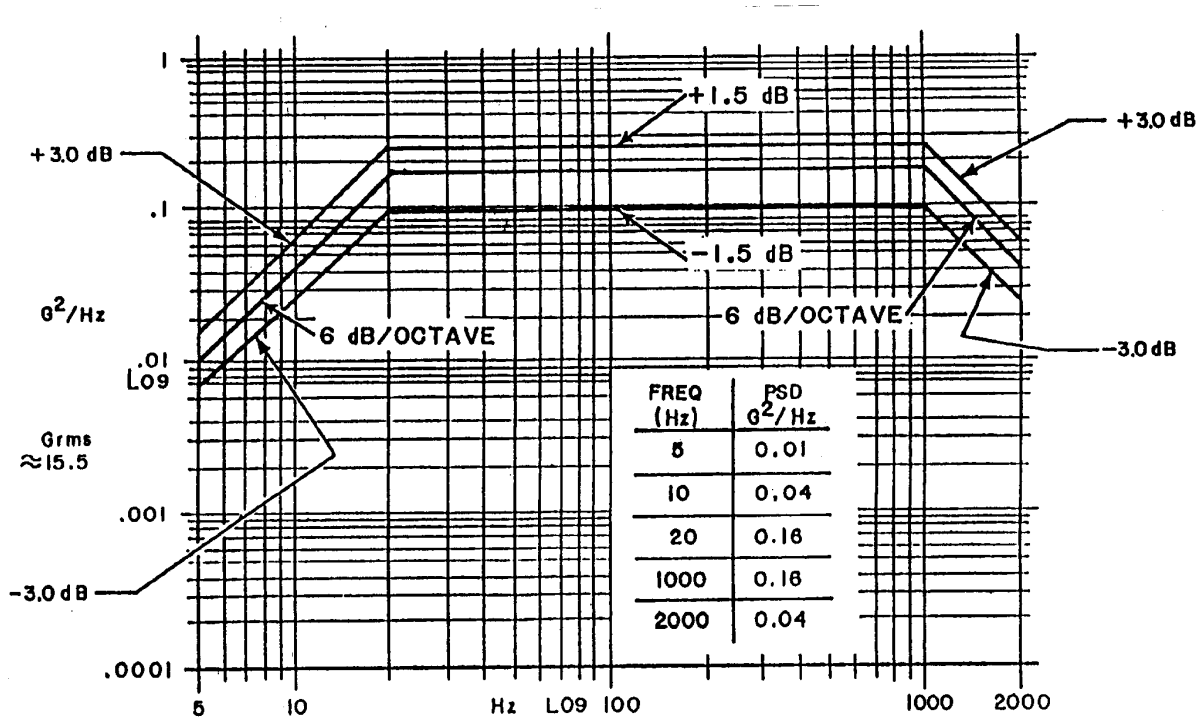

FIGURE 2. Random vibration curve for 28v lamps.

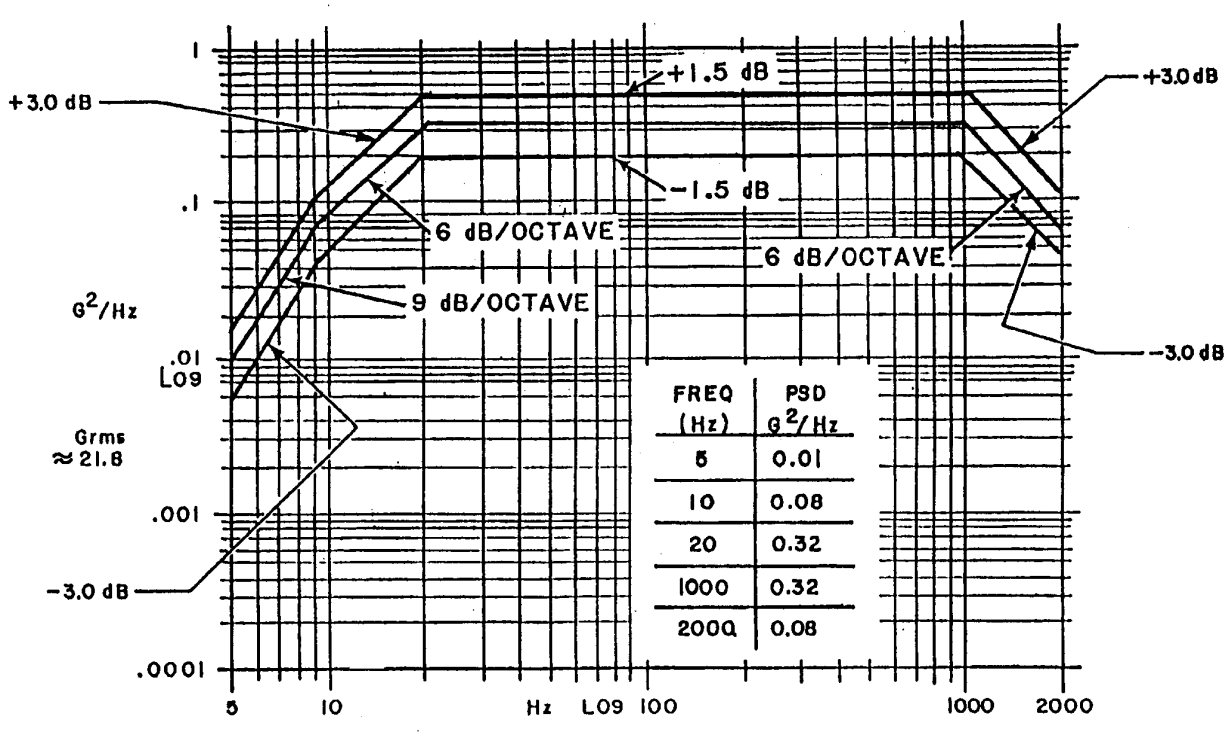

FIGURE 3. Random vibration curve for 6.2v lamps.

CONCLUDING MATERIAL

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

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

Preparing activity
Navy - AS
(Project 6240-xxxx-xx)