



Standard Specification for Flashlights on Vessels¹

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This standard has been approved for use by agencies of the Department of Defense.

1. Scope

1.1 This specification covers three types of flashlights (see Section 4).

1.2 The values stated in inch-pound units are to be regarded as the standard. The values given in parentheses are for information only.

1.3 The following precautionary caveat pertains only to the test method portion, Section 9, of this specification: *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 Military Standard:

MIL-STD-105D Department of Defense Standard; Sampling Procedures and Tables for Inspection by Attributes²

2.2 UL Standard:

UL Standard No. 783³

3. Terminology

3.1 Definitions of Terms Specific to This Standard:

3.1.1 *lot*—a manufacturers production run for a specific type of flashlight.

3.1.2 *order batch*—the size of a specific contract or purchase order taken from the lot.

3.1.3 *production testing*—the testing performed during a lot run of specific flashlights.

4. Classification

4.1 The three types of flashlights covered in this specification are classified as follows:

4.1.1 *Type I*—Flashlights for use in lifeboats and liferafts.

4.1.2 *Type II*—Flashlights for use in hazardous locations where fire or explosion hazards may exist due to the presence of flammable gases or vapors, flammable liquids, combustible dust, or ignitable fibers or flyings.

4.1.3 *Type III*—Flashlights for use in lifeboats and liferafts and suitable for hazardous locations.

4.2 Type I flashlights shall be manufactured in accordance with Sections 2-11. Type II flashlights shall meet the requirements in Sections 11 and 12. Type III flashlights shall meet the requirements in Sections 2-12.

5. Materials and Manufacture

5.1 *Materials*—All materials used in the construction of these flashlights shall be of a quality suitable for the purpose intended and shall conform to the requirements of this specification.

5.2 *Manufacture*—Plastic, when used, shall be a suitable thermoplastic or thermosetting material so molded as to produce a dense solid structure, uniform in texture, finish, and mechanical properties.

6. General Requirements

6.1 Each flashlight shall be a three-cell light.

6.2 Each flashlight shall provide a concentrated beam of light. When used in this specification, a concentrated beam of light is light projected in a nearly parallel beam and is used to illuminate objects at considerable distances.

6.3 The flashlight shall show no leakage of water and shall be in perfect working order following the test prescribed in 9.2.

6.4 The proportions and design of each flashlight shall be such that the assembled unit complete with lamp and cells shall be capable of withstanding, without breakage or material distortion of any part and without upsetting the lamp focus, the test specified in 9.6. Damage of lamp filament or shifting of filament within the lamp as a result of this test shall not be cause for rejection of the flashlight if the flashlight operates when the spare lamp is used.

6.5 Each flashlight must be furnished with two lamps. One of these lamps is a spare and must be contained within the body of the flashlight, either in the end cap or reflector head area.

¹ This specification is under the jurisdiction of ASTM Committee F25 on Ships and Marine Technology and is the direct responsibility of Subcommittee F25.10 on Electrical.

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² Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5098, Attn: NPODS.

³ Available from Underwriters Laboratories, 333 Pfingsten Rd., Northbrook, IL 60062.