



**Warranty**

The manufacturer shall warrant the helmet light and associated manufactured parts to be free of defects in material and workmanship, under normal use and service, for a period of two (2) years from date of manufacture.

**Service:**

The manufacturer must provide helmet light service.

**Quality:**

The manufacturer must ensure quality, design and manufacturing methods through third party certification to ISO 9001, or its equivalent. To ensure that the product is of the highest quality, documentation must be presented upon request illustrating a battery of tests that have been conducted to verify water resistance, heat resistance and shock/impact resistance. The helmet light, when installed, must not affect the EN / NFPA certification of the accompanying helmet.

**Physical Configuration:**

The helmet light shall be designed to integrate with the helmet rather than be a user attachable apparatus. Lights which can be attached or removed are not considered integral to the helmet and do not meet the functionality and durability standard of an integrated helmet light and are not acceptable. The helmet light must not alter the construction and capability of the helmet or preclude the attachment of additional accessories such as leather fronts or secondary eye protection. The unit shall incorporate no fewer than eight (8) white LEDs which are mounted on the front of the helmet. A low profile battery housing, located under the back brim of the helmet, shall house the battery power source and a rear blue LED.

**Durability:**

The helmet light shall remain operational after being submerged under 3 feet of water for 30 minutes. The helmet light shall withstand a one meter drop in any orientation and sustain no operational damage. The manufacturer must perform these tests in front of designated department representatives at a mutually determined time and location. Failure to perform these tests in front of designated department representatives shall constitute non-compliance with this portion of the specification.

**Lighting Performance:**

The helmet light must use eight (8) white 5 mm domed LEDs rated at four (4) lumens each, mounted in two sets of four (4) LEDs along the front part of the helmet. The helmet light shall be capable of continuous operation for a minimum of six (6) hours, producing at least 50% of its original light output. (0309)

**Outer Housing:**

The helmet light shall be manufactured from heat resistant Ultem thermoplastic. Due to the likelihood of rigorous use, the Ultem must be molded with color pigment throughout to mask small surface scratches. Outer shells or housings that are painted or otherwise lack consistent color through their entire thickness are not acceptable.

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**Rear Visibility:**

The helmet light shall have a rear buddy indicator LED to alert those in the area and those following as to the location and movement of the firefighter wearing the helmet with helmet light. This visibility will be accomplished by a highly visible blue surface mount LED mounted below the rear helmet brim and projecting backward. The LED must be viewable by a person standing behind the firefighter.

**Switches:**

To ensure maximum ease-of-use, the helmet light must utilize only one switch. The sole function of this switch will be to power the unit on or off. The power switch must be located on the back portion of the helmet and must be easily manipulated by a firefighter wearing standard firefighting gloves.

**Power Supply:**

The light must use four commercially available AAA batteries. The batteries must be mounted in a water-tight housing. The battery housing shall only be capable of opening with a screwdriver to guard against accidental opening and dislodging of batteries.

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