

# Fresh Aero Easy Light Technical Data Sheet

This data can be used to facilitate the FAA “337” form approval process for the Fresh Aero Easy Light.

The Easy Light is an overhead canopy dome/gooseneck LED lighting unit applicable to Grumman AA-5 series and other aircraft. This light uses two T3-1/4 bayonet adaptor plugs that replace the existing OEM type 1816 incandescent bulbs. No change in aircraft wiring or airframe is necessary. The unit just plugs into existing power receptacles and the application is similar to plug-in headsets and other power receptacle plug-in devices. There are no permanent connections to the aircraft. Power consumption is less than the incandescent bulbs the unit replaces.

## **Additional FlightLights Easy Light Specifications:**

Normal configuration is one forward head and two aft heads. The dome option replaces the aft heads.

Current draw at 14 VDC (each 4 LED head):

Red LED head - 82 milliamperes (.082 amps)

Blue LED - 70 milliamperes (.070 amps)

Green LED - 74 milliamperes (.074 amps)

White LED - 69 milliamperes (.069 amps)

**Note:** Dome light option draws 91 milliamperes (.091 amps)

We also offer the Easy Light in a 24/28 VDC version. With a source voltage of 27.6 VDC, current flow is listed below.

Red LED head - 77 milliamperes (.077 amps)

Blue LED - 72 milliamperes (.072 amps)

Green LED - 72 milliamperes (.072 amps)

White LED - 73 milliamperes (.073 amps)

**Note:** 24/28 VDC dome light option draws 48 milliamperes (.048 amps)

## **Flammability rating:**

All components meet or exceed FAA Sec. 23.853

Component box (111 x 61 x 26 mm) - UL 94V-O flammability rating

ABS textured base (217 x 70 x 2 mm) - meets FAA Sec 23.853 ( v ) (identical specification of plastic panels used in most aircraft).

# Fresh Aero Easy Light Technical Data Sheet continued .....

All other components: non-flammable or self extinguishing.

All wiring is self extinguishing Mil-W22759/16 and meets FAA Sec. 23.1359.

## **Pilot Compartment View:**

The Easy Light has been tested for glare issues per FAA Sec. 23.773 ( a ) and meets these requirements.

Pilot's view is sufficiently extensive, clear and undistorted for safe operation.

Note: The Easy Light is an overhead dome light but has been tested and complies with all parts of FAA Sec. 1381.

## **Function and installation:**

The Easy Light meets all parts of FAA Sec. 1301

Total weight: 6 oz.

A template of a submitted '337' form for the Easy Light is posted on our web site at [www.freshaero.com](http://www.freshaero.com). Look for it on the Easy Light detail page – in the right column.

