

F-16 CCMFD (LED) Backlight

Honeywell



LED vs. Fluorescent:

- » The fluorescent design has a 5 second filament warm-up delay when switching from NVIS mode to DAY mode or with a power up in DAY mode
LED's can be turned on with no noticeable delay
- » The fluorescent design provides full luminance after a warm-up period which is especially noticeable in cold conditions
- » The LED design provides full luminance at power up (hot or cold)
- » The fluorescent design has a short backlight dropout when switching between lamps
- » When switching out of NVIS mode, the present system takes five seconds before entering Day mode. This is not necessary with the LED backlight

Advantages:

- Higher mean time between failures (MTBF): LED's are solid state devices
- More rugged: No glass or filaments
- High volume production: LED's have better quality, minimal obsolescence risk
- Redundancy: Single LED failure does not result in loss of backlight
- Environmentally "Green": No mercury
- Manufacturability: Built with standard processes
- Simplified Drive Electronics: Low voltage, smaller volume
- Better Thermal Management: Excellent thermal path to heat sink
- No Lamp Heater: Instant full luminance performance at cold temperature

P/N: 8526500-920

NSN: 1260-01-469-6512

Lockheed Martin P/N 16VE962001-20

Features and Benefits:

- » Increased Reliability 5000 MTBF to 7000 MTBF
- » Reduced Power 45 Watts (was 58)
- » Dual Mode Direct View LED Backlight (Day and NVIS Modes)
- » LED layout for optical uniformity
- » Color (Chromaticity): Tailorable thru LED color mixing
- » Luminance Range:
 - Night Vision Imaging System (NVIS)
 - Compatible with all 3 LCDs
 - New TPO, legacy Philips & APC)
 - Temperature compensating for constant LED intensity
 - Reduced complexity/parts count
 - Increased resistance to mechanical shock damage modes
 - Longer times before wear out modes are significant



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