The LUU-2C/B flare is the latest in a series of illuminating flares introduced by ATK Thiokol for nighttime target illumination and rescue missions. Designed as a multi-service flare by U.S. military forces, the LUU-2C/B incorporates improvements and modifications that further enhance its performance and reliability. The LUU-2C/B, an improved flare, replaces the LUU-2B/B and has been selected by over 30 foreign countries for aircraft-deployed illumination.

DELIVERY SYSTEMS
The LUU-2C/B flare is compatible with all standard flare launching systems used on rotary-and fixed-wing aircraft. It can be deployed from LAU-74 cargo aircraft launchers, aircraft wing-mounted racks, and the SUU-25, -42, and -44 series launchers. It can also be hand launched from aircraft.

Developed to meet stringent U.S. military requirements for operational safety and reliability, the LUU-2C/B uses advanced design and materials concepts derived from aerospace technology. The LUU-2C/B is accepted by the U.S. Navy for use on carrier-based aircraft.
SAFETY
LUU-2C/B illuminant is nondetonable and extremely shock resistant. Safety features include a safe position on the timer and the out-of-line ignition system. Flare ignition can only be achieved by removing the timer, pulling out the parachute and applying a 27-kg (60 lb) pull on the ignition lanyard attached to the parachute cable.

OPERATIONAL SEQUENCE
1. Mechanical timer controls freefall drop-time prior to parachute deployment.
2. Release mechanism ejects the timer assembly, which deploys the attached parachute.
3. The load applied to the ignition lanyard by deployment of the parachute activates the ignition system, which ignites the flare candle.
4. The illuminant grain and aluminum case are consumed at the same rate.
5. As the candle burns out, an explosive bolt is initiated, severing one of the parachute attachment cables.

DATA

Operational Light Output Rating
LUU-2C/B (4 min) 1.6 x 10^6 cp
          minimum*
LUU-2C/B (5 min) 1.3 x 10^6 cp
          minimum*
Nominal Burn Time 240 sec
Maximum Descent 607 m
Distance During Burn (1,992 ft)
Range
Descent Rate 2.53 m/sec (average 8.3 ft/sec)
Minimum and Maximum Timer Setting 76 to 3,353 m (250 to 11,000 ft)
Freefall Delay 4.0 to 46.5 sec
Dimensions
Diameter 12.4 cm (4.875 in.)
Length 91.4 cm (36 in.)
Weight 13.6 kg (30 lb avdp)

* These measurements vary from a nominal 1.5 to 2.0 m, depending on the measuring facility.

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