

Spectrolab

Illumination Systems

www.spectrolab.com

SX-16 Nightsun®

Illumination Characteristics

- Lamp Type: 1600 Watt Short Arc Xenon
- Peak Beam Intensity: 30 Million candlepower
- Beam Width: 4-20° (remote control focus)

Application Information

- Typical Range: 1km (3200 ft)
- Useful Range For Target ID: 1 Mile
- Peak Illuminance @ 1km: 32 Lux (2.9 ft-cd)
- Diameter at 10% of Peak Illuminance: 70m (230 ft at 1km)

Electrical System

- Input Voltage: 28 Volts DC Nominal
- Input Current: 55-67 Amperes
- Start Time: 3-5 Seconds
- Recycle Time: None Required
- Searchlight power requirements are compatible with standard aircraft type DC generators. Accessory Power converters are available for operation from other primary power sources from 117-480 VAC, 50-400Hz. Searchlight may be operated from batteries or ground power unit.

Mechanical Configuration Searchlight

- Dimensions: Cylindrical 280mm (11 in.) O.D. x 460mm (18 in.) Long
- Weight: 11.4kg (25 lbs.)
- Cooling Provisions: Internal cooling fan with filtered air intake
- Lamp: Max. life expectancy 1000 hrs., 2 years operation



Mechanical Configuration Junction Box

- Dimensions: 267mm x 159mm x 140mm (10.5"L x 6.25" W x 5.5" H)
- Weight: 3.2kg (7 lbs.)

Mechanical Configuration Gimbal (Standard or High Air Speed)

- Type: Two-Axis Remote Electrical Control
- Weight: 4.1kg (9 lbs.) or 6.8kg (15 lbs.)
- Slew Rate: 9° per second standard, others available

Mechanical Configuration Control Box

- Dimensions: 127mm x 57mm x 44mm (5" L x 2.25" W x 1.75" H)
- Weight: 6 Ounces

Total System Weight

- Typical with installation, hardware, cable assemblies, 25-30kg (55-64 lbs).

ISO9001:2000
REGISTERED

The information contained on this sheet is for reference only. Specifications subject to change without notice.

SPECTROLAB

A BOEING COMPANY

Spectrolab Inc. 12500 Gladstone Avenue, Sylmar, California 91342 USA • Phone: 818.365.4611 • Fax: 818.361.5102