ASB-W-020
High Stability Tungsten-Halogen Fiber Light Source

- Offers excellent color temperature stability.
- Provides illumination for applications through optical fiber.
- Focus adjustable light source SMA and fiber bundle adaptor.
- Features built in current regulation.

Optimum Illumination for Your Fiber Optic Needs

The ASB-W-020 is a complete light source assembly with a tungsten-halogen lamp that emits in the 300 to 2500 nanometer (nm) wavelength region. It has been designed to transfer the maximum possible illumination to a variety of fibers. The tungsten-halogen lamp of the ASB-W-020 is a near blackbody source of light with a built-in fused silica lens that focuses the light to the fiber. Figure 1 shows blackbody spectral distributions at various color temperatures in Kelvin (K). The ASB-W-020 spectral distributions resemble those of Figure 1 out to about 2500nm, beyond which the transmission of the fused silica lens limits the output.

In addition to the 20 Watt tungsten-halogen lamp (SP # ASB-W-020B), the ASB-W-020 features a lamp housing and a current regulator to assure a stable output. The housing contains an adjustable lamp mount. A variety of flanges allow the mounting of different fiber terminations, from a single fiber to bundles.

The 20 Watt tungsten-halogen lamp used in the ASB-W-020 has a nominal color temperature of 3100 K and the regulated power input assures an average life of 2000 hours.

The power supply provided with the ASB-W-020 is a wall plug-in type.
Specifications:

Lamp: Tungsten-halogen
Power: Wall transformer, 120 VAC, 50/60 Hz to 24 VDC at 2.0 amps. 220 VAC version available
Current Regulation: Built-in, ± 0.4%
Color Temperature: 3100°K
Bulb Life: 2,000 hrs. average (nominal)
Spectral Distribution: Near blackbody (see Figure 1)
Housing: Aluminum, forced air cooled, Limited focus adjustment
Connector: SMA Fiber connector
Options:
- Spare lamp ASB-W-020B
- Mounting flange for 10mm fiber bundle
- Optical bench mounts
- Specify FC, ST or CS for specific fiber couplers.
Warranty: One year

Ordering Information: Please indicate product number plus description when ordering.

ASB-W-020 Visible Source Assembly
ASB-W-020B Spare Lamp, 20 Watt Tungsten-halogen

Figure 1. Spectral distribution of light emitted by blackbodies at various color temperatures indicated in Kelvin (K)