

**Applications:**

- Optical coherence tomography
- Optical metrology
- Optical measurements

**Features:**

- Wide optical spectrum: 140-nm FWHM
- Coherence length\* of about 3.2  $\mu\text{m}$  (in air)
- High output power
- Low Relative Intensity Noise (RIN)

\* Coherence length is determined as full width at half maximum of the coherence function plotted versus mirror displacement.

**Specifications:**

Parameter	Min	Typ	Max
SM-Fiber output power, mW	12	15	-
Mean wavelength, nm	825	-	845
Bandwidth (FWHM), nm	135	140	-
Residual spectral modulation depth (0.05 nm resolution), %	-	2	5
Spectral flatness, %	-	40	45
Long-term stability, %**	±0.5		
Short-term stability, %***	±0.1		

\*\* Measurements taken every minute for 8 hours with 100 ms integration time.

\*\*\* Measurements taken every second for 15 minutes with 100 ms integration time.

All measurements were taken after a one-hour warm-up period at an ambient temperature of  $22 \pm 0.5$  °C.

**Power requirements:** 110 V AC or 220 V AC, 50/60 Hz

**Operating temperature range:** 0 °C to +40 °C

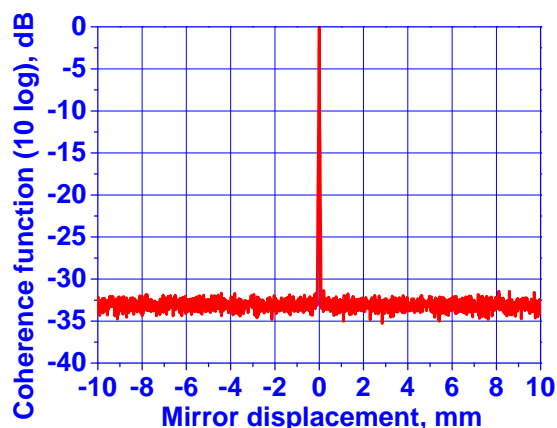
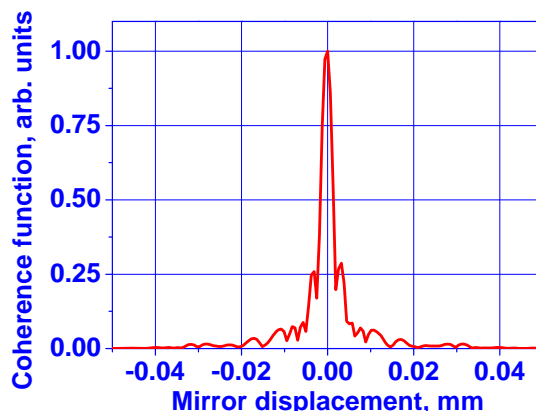
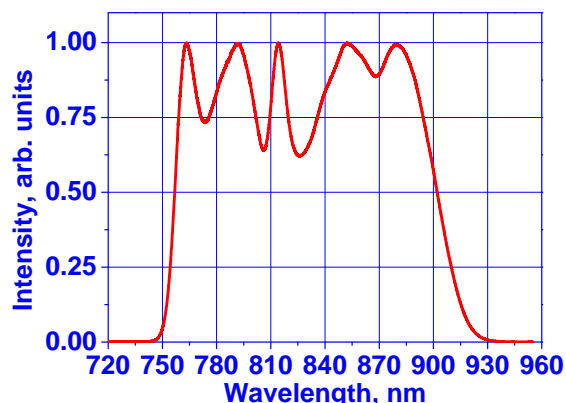
**Optical output:** FC/APC

**Fiber:** Corning HI 780

A maximum feedback of -25 dB is allowed to run Broadlighter T-830-HP safely at full power.

All specifications are subject to change without notice.

**PERFORMANCE EXAMPLES**



Mirror displacement = Optical path difference / 2.  
Spatial resolution of measurements is 0.5  $\mu\text{m}$ .