

**Applications:**

- Optical coherence tomography
- Optical metrology
- Optical measurements

**Features:**

- Wide optical spectrum: 100-nm FWHM
- Coherence length\* of less than 4.5  $\mu\text{m}$  (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	P/N	Min	Typ	Max
SM-fiber output power, mW	D-810-HP	10.0	12.0	-
Mean wavelength, nm	All	800	-	820
Bandwidth (FWHM), nm	All	95	100	-
Residual spectral modulation depth (0.05 nm resolution), %	All	-	2	5
Spectral flatness, %	All	-	-	40
Long-term stability, %**	All	$\pm 0.5$		
Short-term stability, %***	All	$\pm 0.1$		

\*\* 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

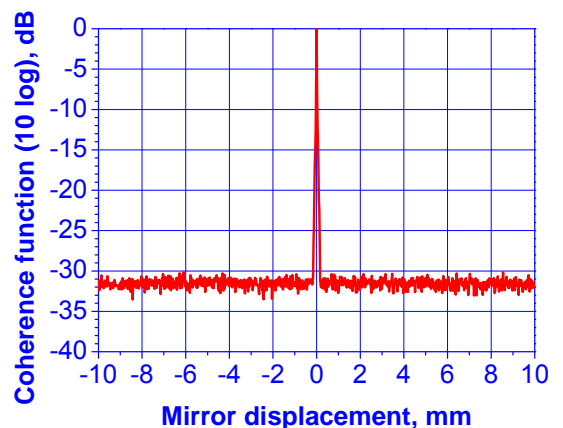
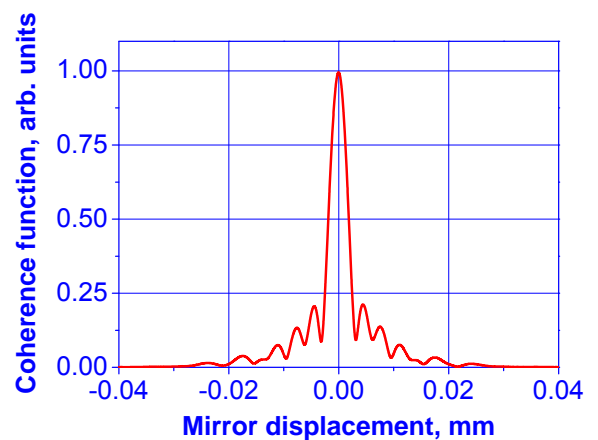
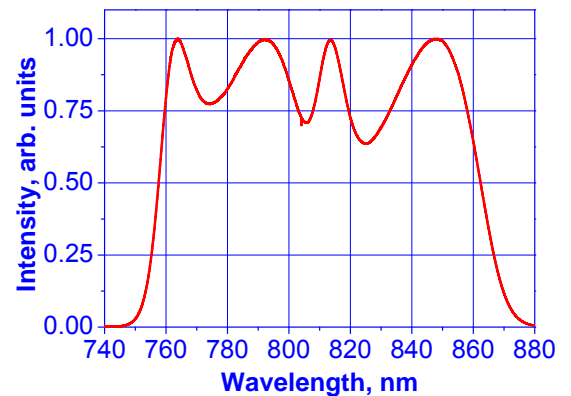
**Operating temperature range:** 0 °C to +40 °C

**Optical output:** FC/APC

**Fiber:** Corning HI 780

A maximum feedback of  $-30$  dB ( $10^{-3}$ ) is allowed to run Broadlighter D-810-HP safely at full power.

**PERFORMANCE EXAMPLES**



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

All specifications are subject to change without notice.