

Applications:

- optical coherence tomography
- optical metrology
- optical measurements

Features:

- wide optical spectrum 70 nm FWHM
- less than 10 microns coherence length
- high output power
- low noise

Specifications:

Parameter	Category	Min	Typ	Max
SM fiber output power, mW	MP	2.5	3.0	-
	HP1	5.0	6.0	-
	HP2	10.0	12.0	-
Mean wavelength, nm	All	-	830	-
3 dB (FWHM) spectrum width, nm	All	60	70	-
Residual spectral modulation depth (0.05 nm resolution), %	All	-	2	5
Spectral flatness, %	All	-	30	45
Long-term stability, %*	All	±0.5		
Short-term stability, %**	All	±0.1		

* 8 hours, measurements taken every minute, 100 ms integration.

** 15 minutes, measurements taken every second, 100 ms integration.

All measurements were taken after a one-hour warm-up period at ambient temperature (22 ± 0.5) °C.

Other specifications:

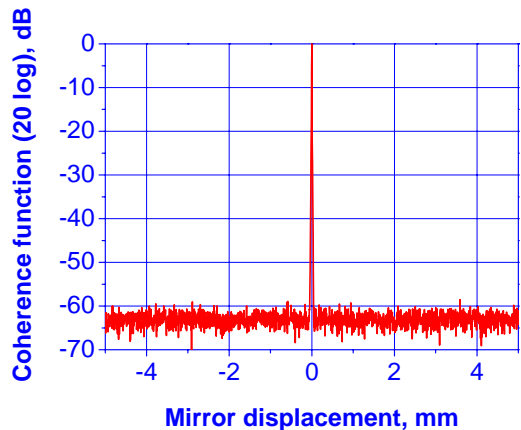
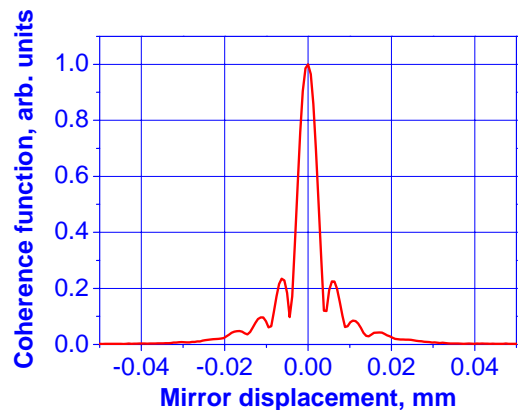
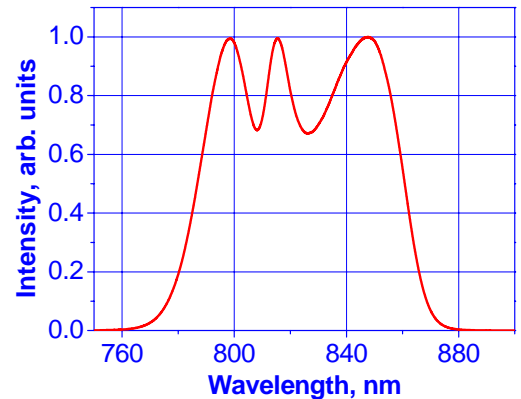
Power requirements: 110 V AC or 220 V AC, 50/60 Hz

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

Output: FC/APC

Fiber: Corning Puremode HI 780

10^{-3} maximum feedback is allowed to run Broadlighters D830 safely at full power.

PERFORMANCE EXAMPLES

Mirror displacement = Optical path difference / 2.
Spatial resolution of measurements is 0.5 micron.

All specifications are subject to change without notice