

# Venturi™ TLB-8800

## SWEPT-WAVELENGTH TUNABLE LASER

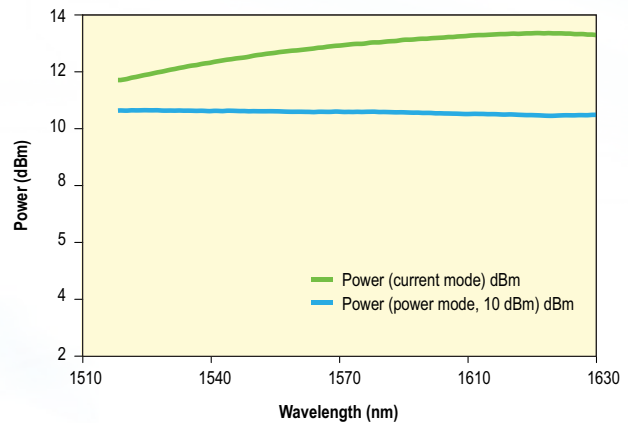
The New Focus™ Venturi TLB-8800 swept-wavelength lasers deliver it all. They combine the best in tunability – ultrafast, ultrawide, and mode hop-free – with low noise, high accuracy and repeatability. Because Venturi lasers are based on our award-winning design, they are extremely dependable with OEM proven 24/7 reliability (>500-million cycles tested without failure). Venturi lasers are ideal for fiber sensing, spectroscopy, laser seeding, metrology and fiber-optics testing.

### The Venturi TLB-8800 Advantage

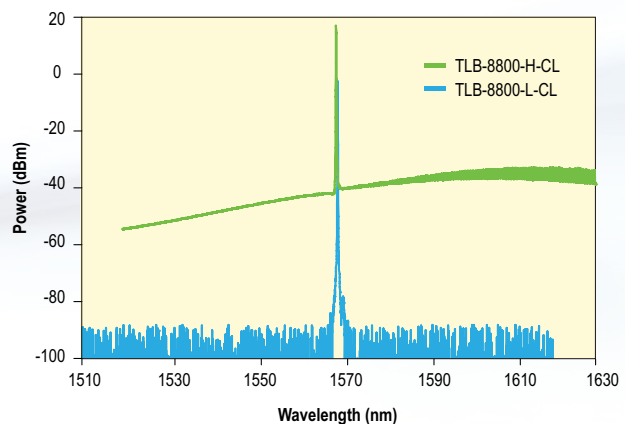
- Up to 20,000 nm/s tuning enables true real-time measurements
- Ultrawide up to 110 nm mode-hop-free tuning
- >70 dB ASE low-noise version for high-dynamic-range test and measurement
- User friendly GUI



### Venturi TLB-8800 Swept-Wavelength Tunable Laser Performance<sup>1</sup>



### Carrier and ASE for the Model TLB-8800-H-CL over the entire C+L tuning range<sup>1</sup>



1. Typically measured performance; not a guaranteed or warranted specification.

### Applications

- Fiber-Bragg sensing
- Spectroscopy
- Telecom test/measurement
- Metrology

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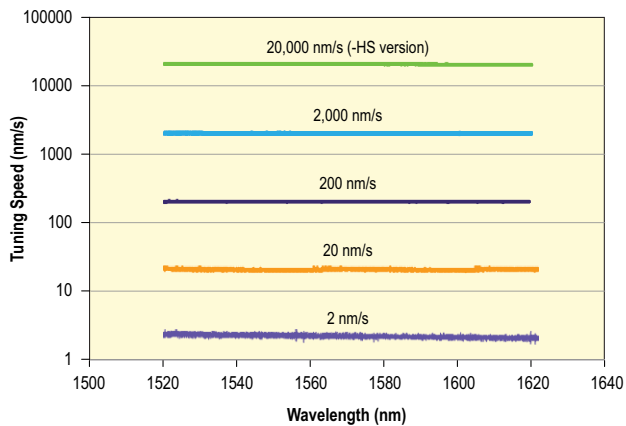
## Specifications<sup>1</sup>

	TLB-8800-H-CL	TLB-8800-L-CL	TLB-8800-H-O	TLB-8800-L-O	TLB-8800-850
Mode-Hop Free Tuning Range	1520–1630 <sup>2</sup> nm	1510–1620 <sup>2</sup> nm	1260–1340 nm		835–850 nm
Tuning Speed	2–2,000 nm/s (20,000 nm/s for -HS model)				5–1,000 nm/s
Wavelength Resetability					±15 pm
Absolute Wavelength Accuracy					±30 pm
Output Power (fiber-coupled)	10 dBm	2 dBm	10 dBm	2 dBm	5 dBm
Side Mode Suppression Ratio (SMSR)					>50 dBc
ASE	>40 dB	>70 dB	>40 dB	>70 dB	>40 dB
Integrated Dynamic Range	>15 dB	>55 dB	>15 dB	>55 dB	NA
Fiber Optic Connector					FC/APC
Fiber Type					SM or PM

1. Due to our continuous product improvement program, specifications are subject to change without notice.
2. For -HS model, upper wavelength of tuning range is limited to 1600 nm.

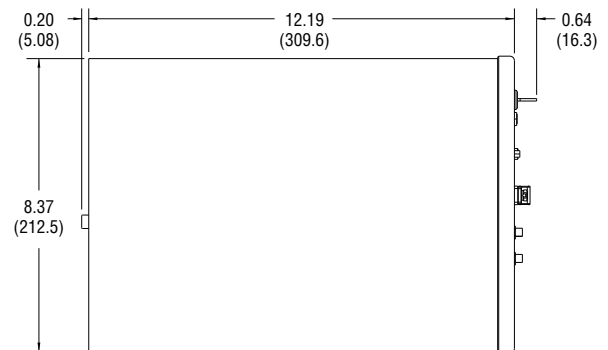
## Venturi TLB-8800 Typical Performance

### Tuning Linearity for the Model TLB-8800-H-CL<sup>1</sup>

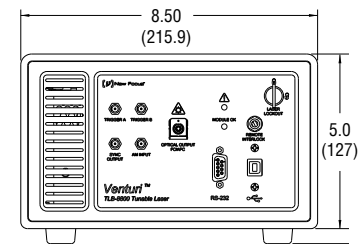


1. Typically measured performance; not a guaranteed or warranted specification.

## Venturi TLB-8800 Dimensions



Top View



Front View

Dimensions in inch (mm)



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