



# Electronic Ruler; Calibration Certification



428A Boston Street • Topsfield, Massachusetts 01983 • Tel: 978-887-5781 • Fax: 978-887-5782 • www.EastCoastMetrology.com

**Customer/Address:** East Coast Metrology **P.O. Number:** -  
**Certificate Date:** September 15, 2015 **Customer Rqrd Due Date:** September 15, 2016 **Job Number:** -  
**Model:** 40" Beta Ruler **Serial Number:** 1124 **Certificate #/Rev:** 1124-09152015

### Reference Standards Traceability

**Interferometer:** **Model:** Renishaw XL-80 **SN:** 131J82 **Cal Due Date:** 7/28/2016  
**Weather Station:** **Model:** Renishaw XC-80 **SN:** 184V77 **Cal Due Date:** 7/28/2016

### Certification Conditions

**Temperature:** **Start Reading:** 69.10 F **End Reading:** 69.40 F **Deviation:** -0.30 F  
**Pressure:** **Start Reading:** 30.15 inHg **End Reading:** 30.14 inHg **Deviation:** 0.01 inHg  
**Relative Humidity:** **Start Reading:** 25.2 % **End Reading:** 25.6 % **Deviation:** -0.4 %

### Certification Results

**Process Description:** Test methods follow procedure SCP-87.

**Calibration and Measurement Uncertainty ± (k=2):** (6.6 + 1.5L)µm

Reading	Position Moving Away from Zero (Inches)								Position Moving Towards Zero (Inches)							
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
<b>Actual</b>	5.5255	10.8885	15.2765	20.1990	25.6535	30.0570	35.5140	40.4470	40.4470	35.3165	30.2685	25.2535	20.3625	15.1025	10.5850	5.2525
<b>Standard</b>	5.5250	10.8886	15.2760	20.1978	25.6514	30.0545	35.5125	40.4443	40.4443	35.3160	30.2680	25.2529	20.3638	15.1014	10.5848	5.2515
<b>Deviation</b>	0.0005	-0.0001	0.0005	0.0012	0.0021	0.0025	0.0015	0.0027	0.0027	0.0005	0.0005	0.0006	-0.0013	0.0011	0.0002	0.0010

#### Instrument Condition as Received

*Requires Calibration Certification*

#### Instrument Condition Outgoing

*Calibration Certified to the Reported Results*

This certification shall not be reproduced without the permission of East Coast Metrology, LLC. The results of this certification relate only to the items calibrated or tested. This item was calibrated using ECM's accredited ISO/IEC 17025:2005 procedure SCP-87. The above listed equipment's calibration was certified using standards traceable to the International System of Units (SI) through a National Metrological Institute (NMI) or through an ISO/IEC 17025:2005 Accredited Laboratory. Calibration and Measurement Capability represents expanded uncertainties at approximately a 95% confidence level using a coverage factor of k=2.

**Calibrated by:** Jeff Eary

**Authorized by:** Gary Confalone

**Date:** September 15, 2015