

# PHOTO RESEARCH, INC

## Certificate of Compliance and Conformance

### Photo Research® Photometer/Colorimeter® Model PR®-655

CUSTOMER: UPC-CD6  
Serial Number: 65082002

This is to certify that the subject instrument was calibrated and tested at Photo Research using working Lamp Number: P-0494-2 and Diffuser (Glass) Number: GD-2, with other instruments whose accuracy's are traceable to the National Institute of Standards and Technology (NIST).

The Photo Research Quality Assurance Program satisfies the requirements of MIL-I-45208A, MIL-STD-45662A, ISO-IEC Guide 25, and ANSI/NCSSL-Z540-1. The instrument was found to be within  $\pm 2\%$  of Luminance/Radiance readings and within  $\pm 0.0015$  for CIE 1931 x- and  $\pm 0.0010$  for CIE 1931 y-coordinates when measuring a blackbody source operating at 2856°K.

The spectral wavelength uncertainty (accuracy) of this instrument is less than  $\pm 2$  nm.

This instrument and the accessories that accompany it were produced in conformance with all contractually applicable Photo Research specifications.

The instrument was also calibrated for the following special parameters and was found to be within accuracy's stated above.

Calibration Parameters	Accessory Used	Calibration Level	Estimated Uncertainty Relative to (NIST)
Luminance	MS-75	1000-FL	$\pm 2\%$ Luminance $\pm 2\%$ Spectral Rad Color Temp. $\pm 20^\circ\text{K}$
Luminance	MS-2.5X	1000-FL	$\pm 2\%$ Luminance $\pm 2\%$ Spectral Rad Color Temp. $\pm 20^\circ\text{K}$
Luminance	FP-655	1000-FL	$\pm 2\%$ Luminance $\pm 2\%$ Spectral Rad Color Temp. $\pm 20^\circ\text{K}$

All Calibrations and tests were performed at the following environmental conditions:

Temperature:  $+22^\circ \pm 2^\circ$  Centigrade  
Relative Humidity:  $45\% \pm 20\%$  R.H.  
Cleanliness: Air-conditioned (filtered) air supply

JUNE 13, 2008

Calibration Date

(Authorized Signature)

The next calibration due date is: JUNE 13, 2009  
NIST Test Report No. 844/273080-06