

CL2 Spectral irradiance 250-3000nm

The CL2 is a universal spectral irradiance standard lamp for the calibration of spectroradiometers, lux meters and radiometers. Its mounting bracket is compatible with all optical table and mounting systems. Calibration distance is measured from a simple datum face plate.

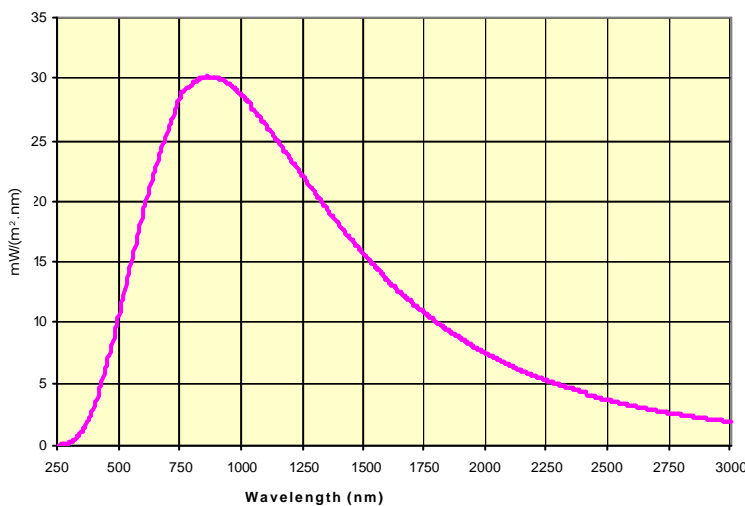
The calibration is performed with respect to National Physical Laboratory (NPL Teddington, UK) calibrated lamps held by Bentham. Alternatively, direct NPL calibration can be offered.

Options

The CL2 is usually supplied with a 100W quartz halogen lamp. It requires a precision constant current dc power supply at 8.500A.

The CL2 can be supplied with alternative lamps ranging from 10W to 250W. It can also be supplied with spectral radiant intensity calibration, mW/(sr.nm).

Bentham offers two variants of a 250W rated constant current p.s.u. for use with calibration lamps, models 605 and 607. The latter includes a current ramping facility for lamp switch on and off.



Typical Photometric Values for CL2 (100W Quartz halogen lamp)	
Measurement type	Spectral irradiance at 0.5m distance from datum face
Wavelength range	250-3000nm, 5nm intervals
Peak spectral irradiance	30 mW/m ² .nm at 800nm
Integrated irradiance	7383 (mW/m ²)
Illuminance	1200 Lux
Chromaticity coordinates, CIE 1931 & 1976	x = 0.425 y = 0.400 u' = 0.245 v' = 0.520
Correlated colour temperature	3200 K

