



CL3
UV Spectral Irradiance
200-400nm

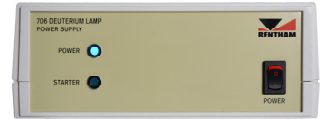
CL3 UV Spectral Irradiance 200-400nm

The CL3 is a UV spectral irradiance standard, supplied with a calibration of spectral irradiance at a distance of 200mm, set using a spacer bar supplied with the lamp.

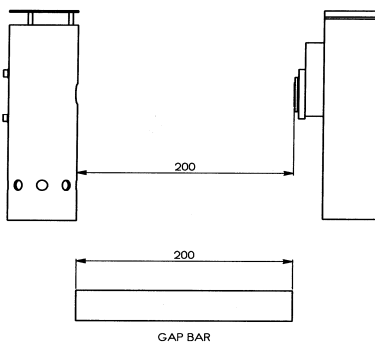
A 30W Deuterium lamp for the calibration of is housed in a metal enclosure with optical bench compatible mounting holes in the base, and is used to calibrate spectroradiometer and radiometers.

The CL3 is supplied with a 30W lamp, and should be operated from a 706 power supply.

The calibration is performed with respect to the Physikalisch-Technische Bundesanstalt (PTB), providing traceability to a National Measurement Institute (NMI).



706 Power Supply



Mechanical	
Lamp Type	Deuterium lamp
Envelope material	Synthetic quartz
Dimensions, LxWxH	91.2 x 44.4 x 76.2 mm

Electro-optical	
Nominal Lamp Power and voltage	30W, 100 V
Operating current	300mA DC
Expected Lifetime	2000h
Peak spectral irradiance (typ.)	4 mW.m ⁻² .nm ⁻¹ at 200nm
UV-A (315-400nm) Irradiance (typ.)	40 mW.m ⁻²
UV-B (280-315nm) Irradiance (typ.)	35 mW.m ⁻²
UV-C (200-280nm) Irradiance (typ.)	205 mW.m ⁻²

Calibration	
Measurement type	Spectral irradiance at 200mm from front face
Wavelength range	200-400nm
Wavelength Interval	2nm
Traceability	Physicalish Technische Bundesanstalt (PTB, Germany)
Calibration Frequency	100 hours use/ Recommended annually

Options	
Alternative Variants	The CL3 can be supplied with diffuse reflectance tile and mount (made from OpDiMa material) to provide spectral radiance standard.