

NEW

Calibrated Deuterium Light Source L7820



JCSS
0081

is a logo mark for an accreditation system based on Japanese Measurement Law. Our Planning & Engineering Division is accredited in accordance with ISO/IEC Guide 25: 1990 in the field of photometry calibration.

(Our accreditation number is 0081.)
[JCSS: Japan Calibration Service System (The Japanese Government accreditation scheme for calibration laboratories and a signatory of APLAC Mutual Recognition Arrangement)]

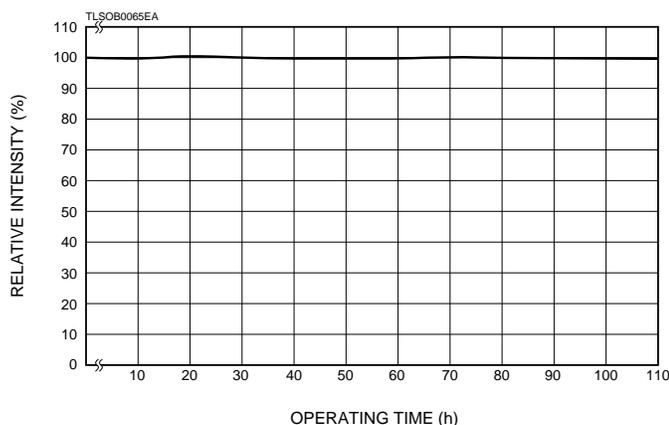
▲LEFT: LAMP HOUSING, RIGHT: POWER SUPPLY

FEATURES

■High Stability

Stability is one of the important characteristics of calibrated light sources. Hamamatsu's excellent electrode technology and optimized lamp housing realize high stability and good repeatability.

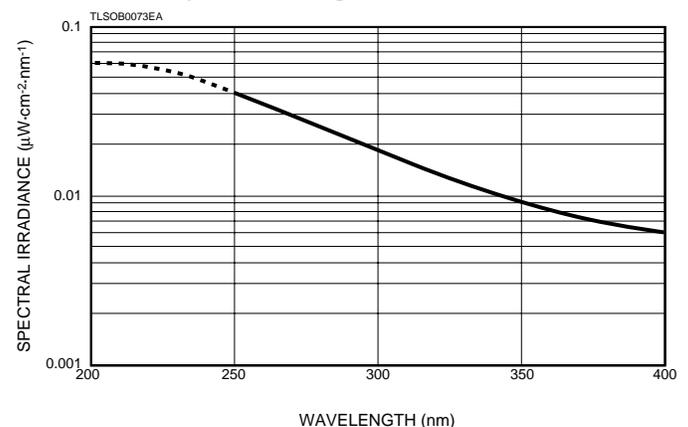
●Light Intensity Drift (Typ.)



■High UV Power

Deuterium lamps have high output in the UV region, making them ideal for UV wavelength calibration and other applications requiring UV light sources.

●Spectral Irradiance (Reference data) : 50 cm away from the light source



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SPECIFICATIONS

Lamp	Deuterium Lamp	Input Voltage (switched manually)	100 V ac/115 V ac/200 V ac/230 V ac (±10 %), 50 Hz/60 Hz
Input Wattage	30 W	Power Consumption	90 VA
Spectral Distribution	185 nm to 400 nm	Cooling	Lamp Housing: Forced Air Cooling (cooling fan is included) Power Supply: Not required
Calibrated Range ^(A)	250 nm to 400 nm	Ambient Temperature	0 °C to 40 °C
Type of Calibration	Spectral Irradiance	Humidity	30 % to 85 % (without condensation)
Calibration Unit	$\mu\text{W}\cdot\text{cm}^{-2}\cdot\text{nm}^{-1}$	Dimensions (W × H × D)	Lamp Housing: 100 mm × 280 mm × 100 mm Power Supply: 200 mm × 107 mm × 240 mm Case ^(D) : 595 mm × 425 mm × 345 mm
Stability	Fluctuation (p-p): 0.05 % Max. Drift: ±0.3 %/h Max.	Weight	Lamp Housing: Approx. 3.5 kg Power Supply: Approx. 6.7 kg Case ^(D) : Approx. 7.8 kg
Window Material (Lamp Housing)	Synthetic Silica		
Warm-up Time	10 min		
Recommended Calibration Period ^(B)	100 hours or 1 year whichever comes first		
Guaranteed Life ^(C)	500 hours		

NOTE: (A) The calibrated value is the light power at 50 cm away from front surface of lamp housing.

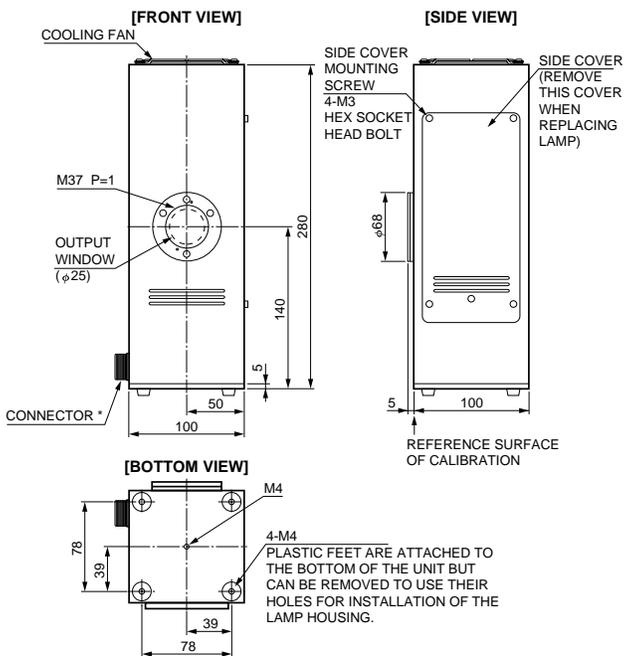
(B) This is the recommended calibration period when high reliability is required. Please contact to our sales office for re-calibration fee.

(C) This is the guaranteed time the unit satisfies requirements as calibrated light source.

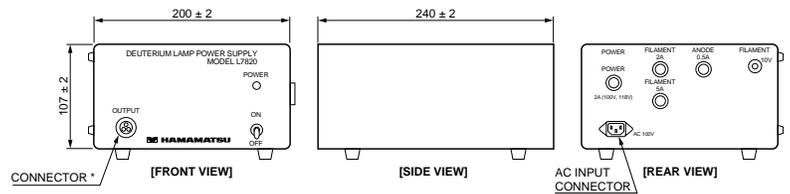
(D) This is an accessory coming with the unit.

DIMENSIONAL OUTLINES (Unit: mm)

LAMP HOUSING



POWER SUPPLY



* The attached cable length to connect lamp housing with power supply is 2000 mm

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Subject to local technical requirements and regulations, availability of products included in this promotional material may vary. Please consult with our sales office.

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