



LS-1 Tungsten Halogen Light Sources



360-2000 nm Spectral Range

The LS-1 Tungsten Halogen Light Source is a versatile white-light source useful for absorbance, reflectance and color measurements for the VIS-NIR (360-2000 nm). The lamp offers high color temperature and an efficient output.

Rack-mountable

Install sources with spectrometers and other devices into a Rack Box or Desktop Box. For details, see page 62.

Long Life

The LS-1 comes with a 900-hour bulb. Also available is the LS-1-LL, which comes with a 10,000-hour bulb for extra-long life bulb performance. LS-1 Light Sources come with a 12 VDC power supply (WT-12V).

Color-correcting & Signal-attenuating Accessories

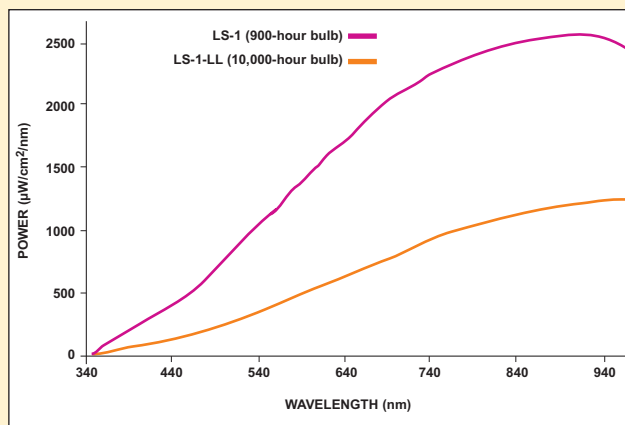
The LS-1 is one of the most popular miniature spectroscopy light sources ever. That experience has provided us with lots of customer feedback, including the idea to add components to allow users to modify the light output -- something we now include in the price of the light source:

- a 12.7-mm diameter color-correcting filter that can be installed into the light source to enhance the signal in the blue and NIR regions
- three PTFE discs of various thickness to create a diffuse source -- by attenuating the light 50%, 75% or 99% -- when spectrometer saturation is an issue

Maximum Flexibility

The LS-1 has an SMA 905 Connector for easy coupling to our spectrometers and accessories, including optical fibers, cuvette holders and probes. A built-in slot accepts optical filters up to 3 mm in thickness.

LS-1 and LS-1-LL Spectral Output



Additional LS-1-series Light Sources and Accessories

Item	Description
R-LS-1	Rack-mounted LS-1 with color-correcting filter and diffusers
R-LS-1-LL	Rack-mounted LS-1-LL with color-correcting filter and diffusers
LS-1-B	900-hour replacement bulb for LS-1
LS-1-LL-B	10,000-hour replacement bulb for LS-1-LL
OF2-LS	Additional filter set for use with LS-1 source includes: BG 34, GG 395 and OG 550 filters, as well as PTFE diffusing discs

Specifications

Dimensions:	113.5 mm x 50.8 mm x 31.6 mm	Bulb life:	900 hours (LS-1); 10,000 hours (LS-1-LL)
Weight:	140 g	Output to bulb:	5 volts/1.3 amps
Power consumption:	600 mA @ 12 VDC	Output regulation:	0.2% voltage
Spectral range:	360-2000 nm	Internal filter accessory:	BG 34 balancing filter
Time to stabilized output:	~30 minutes	External filter slot:	Accepts filters up to 3-mm thickness
Bulb color temperature:	3100 K (900-hour bulb); 2800 K (10,000-hour bulb)	Spectral attenuation:	50%, 75% and 99% with PTFE disc accessories
Power output:	6.5 watts (without a fiber)	Connector:	SMA 905

