



## Enabling Mobile Spectroscopy – FiberLight® L<sub>3</sub>

Discover a new world of possibilities for mobile analytical equipment.

Environmental field based analysis has never been easy. Current on-site measurement methods are restricted by the mobility and limited battery life of the measurement device. Typically, a sample is taken in the field and then shipped to the laboratory for analysis. A very time consuming and logistically complex method.

### The ideal light source for portable measurement devices.

FiberLight® L<sub>3</sub> is a unique and innovative light source module, which combines the features of LED technology, such as long lifetime and low power consumption with a broadband UV-spectrum for the first time. Following the trend to smaller devices, the compact FiberLight® L<sub>3</sub> requires only a very small space in the instrument.

With its low power consumption, fiber connection and compact size, the module integrates easily into battery operated portable and handheld devices. The plug and play feature ensures easy integration and mobile usage to reduce integration costs and time per measurement.

### First broadband UV-LED for portable spectroscopy-in-field analysis easier than ever.

The unique light FiberLight® L<sub>3</sub> unites the best of two worlds: The broad spectrum of the deuterium lamp and the long lifetime, low power consumption and higher efficiency of the LED light. Therefore, the new light source offers the advantages of state-of-the-art LED technology combined with a true broadband spectrum.

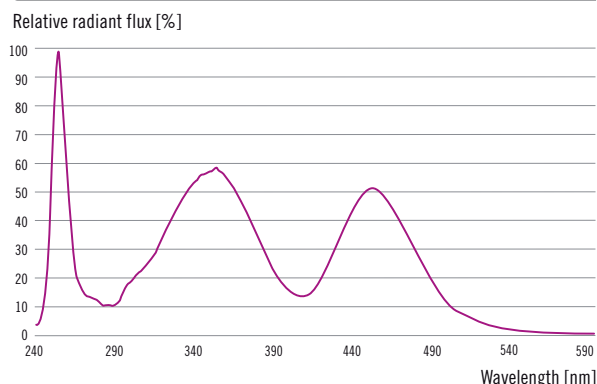


FiberLight® L<sub>3</sub>

The technology to broaden the single LED spectrum is unique on the market and generates a broadband UV continuum from 250 – 490 nm. This opens up completely new application fields and gives unexpected flexibility in analytical measurement methods like mobile UV spectroscopy and flash chromatography.

**The result:** a new species of light – and an entirely new world of possibilities for your mobile analytical measurement.

Spectrum of FiberLight® L<sub>3</sub>



Technical Specifications

Product name	FiberLight® L <sub>3</sub>
Ident No.	80158546
Spectral distribution	250 – 490 nm
Lifetime	> 5.000 h
Optical stability	< 0,03 % p-p
Size	60 × 63 × 48 mm
Power supply voltage	3 – 24 V
Power consumption	< 1,5 W
Operation	Pulsed or continuous
Maximum puls frequency	1 kHz
Weight	0,11 kg
Optical connection	SMA905 Fiber coupling

## Making spectroscopy more mobile:

### Applications for FiberLight® L<sub>3</sub>

It makes spectroscopy more mobile, more powerful and extends the life cycle of light: The unique feature combination of FiberLight® L<sub>3</sub> will bring the opportunities for portable analytical measurement to the next level. The true broadband UV spectrum enables flexibility in use, to detect a wider range of substances. The light source module gives more end-Users the flexibility to detect problems in the environment. Faster results can be achieved, because measurement is at the point of sampling, which enables a true Point-of-Use analysis. The packaging and light delivery with low power consumption, make portable analytical measurement available more than ever before. FiberLight® L<sub>3</sub> enables faster control for a cleaner environment.

### Application Fields:

- UV-Vis Spectroscopy
  - Portable
  - Fixed installed
- Flash Chromatography

### Features and Benefits

- Mobile in-field spectroscopy, due to unique combination of features, like low power consumption (< 1.5 W), Instant ON/OFF and the small size (60 × 63 × 48 mm)
- Fiber coupling and plug & play set up for easy integration
- Broadband UV spectrum (250–490nm) enables the detection of a wider range of substances
- Can operate in pulsing or continuous modes with excellent stability
- The long lifetime (> 5.000h) allows longer maintenance cycles and reduces costs

### Discover a whole new world of possibilities for mobile in-field spectroscopy

with a new species of light! Test our light source in your mobile analytical equipment.

Europe, Middle East, Africa, Rest of World\*

#### Heraeus Noblelight GmbH

Heraeusstraße 12-14  
63450 Hanau, Germany  
Phone +49 6181 35 5086  
Fax +49 6181 35 7970  
hng-analyticalamps@heraeus.com  
www.heraeus-noblelight.com/FLL3

America\*

#### Heraeus Noblelight America LLC

1520C Broadmoor Blvd.  
Buford 30518, GA, USA  
Phone +1 678 835 5764  
Fax +1 678 835 5765  
info.hna.aa@heraeus.com

Asia-Pacific\*

#### Heraeus Noblelight (Shenyang) Ltd.

Shanghai Branch  
2F, 5th Building 5  
No. 406, Guilin Rd, Xuhui District  
Shanghai 200233, PR China  
Phone +86 400 080 2255  
Fax +86 (0) 21 33575333  
info.hns@heraeus.com

\*For local contacts please visit also our website [heraeus-noblelight.com](http://heraeus-noblelight.com)

We reserve the right to change the pictures and technical data of this brochure.