



news & updates September 2025 | Issue 59

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New level of high-precision testing of light sources



CEO's Corner

Dear Colleague,

[GL Optic](#) is the brand name of *Just Normlicht GmbH* (Germany). Their state-of-the-art light measuring tools answer a wide range of spectral light measurement needs for measuring LUX, lumens, CRI, CCT, color temperature, and luminance.

GL Optic's individually-calibrated measurement tools provide accurate light measurement data, delivering fast and precise results from compact, portable instruments that rival more

extensive range of devices. Their products are ideal for LED, OLED, and other light source measurements. Their latest product covers a remarkable wavelength range: from 200 – 1050nm.

GL Optic's solutions are designed for manufacturers as well as color scientists and experts in the lighting industry. In addition to portable spectrometers, GL Optic also produces innovative LED tunable lighting sources and other products for illumination quality measurements.

See below for details of their latest spectroradiometer.

Alan Lowne
CEO, Saelig Company Inc.

What's New?

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Light quality control



GL Spectis 1.0



GL Spectis 1.0 Touch



GL Opti Light LED



GL Spectis 6.0 Spectrometer

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	<p>EMC Test</p> 	<p>Components</p> 	<p>RF Shielding</p> 
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Alan Lowne, CEO

Founded Saelig in 1988 to search the world for unique electronic control and instrumentation equipment, including economical oscilloscopes, PC and RF spectrum analyzers, ESD and logic analyzers, logic probe RF sources, EMAs, data loggers, RF and DC controllers, PCB test, high-res industrial panel PCs, EM enclosures, USB serial converter etc.

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The GL Optic Spectis 4.0 M Wide-Range High-end Spectroradiometer Series for precision testing of light sources and other applications. This measuring instrument covers an extended spectral range from 200-1050 nm (UV-VIS-NIR) and is designed using only high-performance optical components. It is delivered with a multi-step, traceable factory calibration.



This high-end spectroradiometer is perfect for LED characterization, as it can be paired with GL Optic integrating spheres and goniometer systems for measurements in accordance with CIE 127:2007 and CIE 025/E:2015. The high accuracy and resolution make it an ideal instrument for measurements conforming to (IES) LM-79-08 and other international standards. The GL SPECTIS 4.0 M UV performs measurements in the ultraviolet range with high optical resolution of <1 nm (FWHM). The device can be calibrated to measure absolute values of irradiance in the range of 200 nm – 400 nm.

The primary goal in designing the new spectroradiometer was to develop a new modular technology for optical radiation measurements. This instrument can be tailored to individual needs and still maintain laboratory grade accuracy. Each spectroradiometer is individually calibrated and before the Absolute Spectral Calibration process, various pre-calibration stages are performed, such as wavelength calibration, non-linearity correction, and stray-light examination.

Thermal stabilization applied directly to the detector reduces noise and the values of dark current, which directly improves the measurement capabilities of low-level signals, especially in the ultraviolet range (e.g. LED UV-C). This solution will also ensure independence from the ambient temperature in the application range. The variable optical path module ensures flexibility in adjustment of the optical properties of the system by changing the aperture and filters. This solution allows the user to quickly adapt the instrument to particular measurement needs, often eliminating the need to install a dedicated measuring probe for each application, and all while maintaining calibration parameters for all optical path configurations. Improving the quality of ultraviolet measurements is crucial in assessing challenges such as photobiological safety, actinic effects of optical radiation, and validation of radiation sources used for disinfection and medical applications.

The GL Spectis 4.0 M high-end spectroradiometer features the latest optical solutions for precise light quality control in a variety of applications. For demanding measurement applications in the laboratory or production environment, it is equipped with Peltier cooling, which reduces measurement uncertainty due to lower signal noise and minimized dark current levels. With its universal modular design, GL Spectis 4.0 M is a perfect choice for easily build a dedicated custom measuring instrument. By adding an extra filter it is possible to extend spectral range for specific needs. When connected to an integrating sphere, the measurement of total luminous flux and radiant power is possible. A range of compatible GL OPTI Probes, equipped with quick connectors, introduce new simplicity. When combined with luminance / radiance telescopic probes, specialized evaluation of optical radiation related hazards and light quality can be performed. Available rack housing allows easy integration in stationary laboratory measuring stands or production testers. Ethernet connection ensures stability and reliability of operation.

The GL Optic Spectis 4.0 M is designed and manufactured in Europe by GL Optic, a leading supplier of light measurement solutions.

**For more information on this product, as well as other GL Optic offerings,
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