



Schweizerische Eidgenossenschaft

Confédération suisse

Confederazione Svizzera

Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,  
Education and Research EAER

**State Secretariat for Economic Affairs SECO**

Swiss Accreditation Service SAS

## SCS Directory

**Accreditation number: SCS 0053**

International standard: ISO/IEC 17025:2017

Swiss standard: SN EN ISO/IEC 17025:2018

Opto.cal GmbH  
Chemin des Vies 24  
2812 Movelier

Head: Ch. Schroeder  
Responsible for MS: Ch. Schroeder  
Telephone: +41 32 431 20 28  
E-Mail: [info@optocal.ch](mailto:info@optocal.ch)  
Internet: [www.optocal.ch](http://www.optocal.ch)  
Initial accreditation: 20.12.1994  
Current accreditation: 15.07.2020 to 14.07.2025  
Scope of accreditation see: [www.sas.admin.ch](http://www.sas.admin.ch)  
(Accredited bodies)

### Scope of accreditation as of 01.04.2024

#### Calibration laboratory for radiometry, photometry, optical radiation

##### Calibration and Measurement Capability (CMC)

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability $\pm$ <sup>1)</sup>	Remarks
<b>Radiometric Measurands</b>				
Spectral Irradiance (optical sources)	250 nm ... < 300 nm		9 %	1 $\mu$ W/cm <sup>2</sup> /nm ... 100 W/cm <sup>2</sup> /nm
	300 nm ... < 400 nm		7 %	
	400 nm ... 800 nm		4 %	
	> 800 nm ... 1100 nm		6 %	
Spectral Irradiance (optical sources)	250 nm ... < 300 nm		9,5 %	<b>On-site calibration</b> 1 $\mu$ W/cm <sup>2</sup> /nm ... 100 W/cm <sup>2</sup> /nm
	300 nm ... < 400 nm		7,5 %	
	400 nm ... 800 nm		4,5 %	
	> 800 nm ... 1100 nm		6,5 %	



## SCS Directory

**Accreditation number: SCS 0053**

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability $\pm$ <sup>1)</sup>	Remarks
Spectral responsivity of optical detectors (Radiant flux, irradiance, optical power)	270 nm ... < 300 nm		4 %	HWB 2,5 nm
	300 nm ... < 400 nm		3 %	HWB 2,5 nm
	400 nm ... 800 nm		2 %	HWB 2,5 nm
	> 800 nm ... 1000 nm		3 %	HWB 5,0 nm
	> 1000 nm ... 1100 nm		4 %	HWB 5,0 nm
Spectrale Exposure (optical sources)	300 nm ... < 400 nm		7 %	1 $\mu$ J/cm <sup>2</sup> /nm ... 30 kJ/cm <sup>2</sup> /nm
	400 nm ... 800 nm		4 %	1 ... 300s exposure time
	> 800 nm ... 1100 nm		6 %	
Spectrale Exposure (optical sources)	300 nm ... < 400 nm		7,5 %	<b>On-site calibration</b> 1 $\mu$ J/cm <sup>2</sup> /nm ... 30 kJ/cm <sup>2</sup> /nm
	400 nm ... 800 nm		4,5 %	1 ... 300s exposure time
	> 800 nm ... 1100 nm		6,5 %	
Integrated responsivity of irradiance detectors (Radiant flux, irradiance, optical power)	250 nm ... < 300 nm		9 % <sup>2)</sup>	2) for measurement of known spectral distribution and defined incidence angle
	300 nm ... < 400 nm		7 % <sup>2)</sup>	
	400 nm ... 800 nm		4 % <sup>2)</sup>	
	> 800 nm ... 1100 nm		6 % <sup>2)</sup>	
Integrated responsivity of irradiance detectors (Radiant flux, irradiance, optical power)	250 nm ... < 300 nm		9,5 % <sup>2)</sup>	<b>On-site calibration</b> 2) for measurement of known spectral distribution and defined incidence angle
	300 nm ... < 400 nm		7,5 % <sup>2)</sup>	
	400 nm ... 800 nm		4,5 % <sup>2)</sup>	
	> 800 nm ... 1100 nm		6,5 % <sup>2)</sup>	
<b>Photometric Measurands</b>				
Illuminance	1 lx ... 200'000 lx		2 % <sup>3)</sup>	<sup>3)</sup> Light sources without spectral emission bands with $\Delta\lambda < 5$ nm
Illuminance	50 lx ... 200'000 lx		4,5 % <sup>3)</sup>	<b>On-site calibration</b> <sup>3)</sup> Light sources without spectral emission bands with $\Delta\lambda < 5$ nm



## SCS Directory

**Accreditation number: SCS 0053**

Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability $\pm$ <sup>1)</sup>	Remarks
Visual responsivity of illuminance meters			2 % <sup>4)</sup>	<sup>4)</sup> for incandescent lamps $T_f=2856 \pm 50$ K at defined measuring angle
Visual exposure	50 lx ... 60'000 klxs		2 % <sup>3)</sup>	<sup>3)</sup> Light sources without spectral emission bands with $\Delta\lambda < 5$ nm
Visual exposure	50 lx ... 60'000 klxs		4,5 % <sup>3)</sup>	<b>On-site calibration</b> <sup>3)</sup> Light sources without spectral emission bands with $\Delta\lambda < 5$ nm 1 ... 300s exposure time

In case of contradictions in the language versions of the directories, the German version shall apply.

\* / \* / \* / \* / \*