



SCS Directory

Accreditation number: SCS 0053

International standard: ISO/IEC 17025:2017
Swiss standard: SN EN ISO/IEC 17025:2018

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Initial accreditation: 20.12.1994
Current accreditation: 15.07.2020 to 14.07.2025
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 08.07.2020

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 ¹⁾	Remarks
Radiometric Measurements				
Spectral Irradiance	300 nm ... < 400 nm		7 %	1 μ W/cm ² /nm ... 100 W/cm ² /nm
	400 nm ... 800 nm		4 %	
	> 800 nm ... 1100 nm		6 %	
Spectral responsivity of optical detectors	270 nm ... < 300 nm		4 %	FWHM \geq 1 nm
	300 nm ... < 400 nm		3 %	FWHM \geq 1 nm
	400 nm ... 800 nm		2 %	FWHM \geq 1 nm
	> 800 nm ... 1000 nm		3 %	FWHM \geq 2 nm
	> 1000 nm ... 1100 nm		4 %	FWHM \geq 2 nm



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
Spectrale Exposure	300 nm ... < 400 nm		7 %	1 $\mu\text{J}/\text{cm}^2/\text{nm}$... 30 $\text{kJ}/\text{cm}^2/\text{nm}$ 1 ... 300s exposure time
	400 nm ... 800 nm		4 %	
	> 800 nm ... 1100 nm		6 %	
Integrated responsiveness of irradiance detectors	300 nm ... < 400 nm		7 % ¹⁾	1) for measurement of known spectral distribution and defined incidence angle
	400 nm ... 800 nm		4 % ¹⁾	
	> 800 nm ... 1100 nm		6 % ¹⁾	
Integrated responsiveness of exposure detectors	300 nm ... < 400 nm		7 % ¹⁾	
	400 nm ... 800 nm		4 % ¹⁾	
	> 800 nm ... 1100 nm		6 % ¹⁾	
Photometric Measurands				
Illuminance	1 lx ... 200'000 lx		2 % ²⁾	²⁾ Light sources without spectral emission bands with $\Delta\lambda < 5$ nm
Luminance	$50/\pi$ cd/m ² ... 200'000/ π cd/m ²		3 % ²⁾	
Visual responsivity of illuminance meters			2 % ³⁾	³⁾ for incandescent lamps $T_f=2856 \pm 50$ K at defined measuring angle
Visual exposure	50 lxs ... 60'000 klxs		2 % ²⁾	²⁾ Light sources without spectral emission bands with $\Delta\lambda < 5$ nm
On site Calibration				
Spectral Irradiance	300 nm ... < 400 nm		7,5 %	1 $\mu\text{W}/\text{cm}^2/\text{nm}$... 100 $\text{W}/\text{cm}^2/\text{nm}$
	400 nm ... 800 nm		4,5 %	
	> 800 nm ... 1100 nm		6,5 %	
Spectral exposure	300 nm ... < 400 nm		7,5 %	1 $\mu\text{J}/\text{cm}^2/\text{nm}$... 30 $\text{kJ}/\text{cm}^2/\text{nm}$ 1 ... 300s exposure time
	400 nm ... 800 nm		4,5 %	
	> 800 nm ... 1100 nm		6,5 %	



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Measured Quantity / Instrument or Gauge	Measurement Range	Measurement Conditions	Best Measurement Capability \pm ¹⁾	Remarks
Integrated responsivity of exposure detectors	300 nm ... < 400 nm		7,5 % ¹⁾	On site Calibration 1) for measurement of known spectral distribution and defined incidence angle
	400 nm ... 800 nm		4,5 % ¹⁾	
	> 800 nm ... 1100 nm		6,5 % ¹⁾	
Integrated responsivity of exposure detectors	300 nm ... < 400 nm		7,5 % ¹⁾	
	400 nm ... 800 nm		4,5 % ¹⁾	
	> 800 nm ... 1100 nm		6,5 % ¹⁾	
Illuminance	1 lx ... 200'000 lx		4,5 % ²⁾	On site Calibration 2) Light sources without spectral emission bands with $\Delta\lambda < 5$ nm
Luminance	$50/\pi$ cd/m ² ... 200'000/ π cd/m ²		5,5 % ²⁾	On site Calibration
Visual exposure	50 lxs ... 60'000 klxs		4,5 % ²⁾	2) Light sources without spectral emission bands with $\Delta\lambda < 5$ nm 1 ... 300s exposure time

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