Photometry and Radiometry, Serbia, DMDM (Directorate of Measures and Precious Metals)

Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					
Quantity	**Instrument or Artifact**	**Instrument Type or Method**	**Minimum value**	**Maximum value**	**Units**	**Parameter**	**Specifications**	**Value**	**Units**	**Coverage factor**	**Level of Confidence**	**Is the expanded uncertainty a relative one?**	**Comments**
Luminous intensity	Tungsten lamp	Photometric bench, reference lamps / photometer	1	10000	cd	Colour temperature	2353 K, 2800 K and 2856 K	2	%	2	95%	Yes	Approved on 30 September 2010
Illuminance responsivity, tungsten source	Illuminance meter	Photometric bench, reference lamps			A/lx	Colour temperature	2353 K, 2800 K and 2856 K	3	%	2	95%	Yes	Approved on 30 September 2010
						Illuminance	0.05 lx and 5000 lx						
Luminous flux	Tungsten lamp	Integrating sphere, substitution method	400	10000	lm	Colour temperature	2800 K	3	%	2	95%	Yes	Approved on 30 September 2010
Luminance	Tungsten-based source	Reference illuminance meter	0.01	5000	cd/m^2	Correlated colour temperature	(2856 ± 50) K	2.5	%	2	95%	Yes	Approved on 30 September 2010
Luminance responsivity	Luminance meters	Integrating spheres with tungsten sources			$A/(cd/m^2)$	Correlated colour temperature	(2856 ± 50) K	3	%	2	95%	Yes	Approved on 30 September 2010
						Luminance	0.01 cd/m^2 to 2000 cd/m^2						
Transmittance, regular, spectral	Spectrally-neutral material	Comparison with air or reference filters	0.1	1		Wavelength	250 nmto 359 nm	1	%	2	95%	Yes	Approved on 30 September 2010
						Bandwidth	2 nm						
Transmittance, regular, spectral	Spectrally-neutral material	Comparison with air or reference filters	0.1	1		Wavelength	400 nm	0.6	%	2	95%	Yes	Approved on 30 September 2010

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Calibration or Measurement Service			Measurand Level or Range			Measurement Conditions/Independent Variable		Expanded Uncertainty					
Quantity	**Instrument or Artifact**	**Instrument Type or Method**	**Minimum value**	**Maximum value**	**Units**	**Parameter**	**Specifications**	**Value**	**Units**	**Coverage factor**	**Level of Confidence**	**Is the expanded uncertainty a relative one?**	**Comments**
						Bandwidth	4 nm						
Transmittance, regular, spectral	Spectrally-neutral material	Comparison with air or reference filters	0.001	0.1		Wavelength	401 nm to 1000 nm	0.6 to 2.0	%	2	95%	Yes	Approved on 30 September 2010
						Bandwidth	1 nm to 4 nm						
Transmittance, regular, spectral	Spectrally-neutral material	Comparison with air or reference filters	0.1	1		Wavelength	401 nm to 1000 nm	0.3	%	2	95%	Yes	Approved on 30 September 2010
						Bandwidth	1 nm to 4 nm						
Distribution temperature	Tungsten lamp	B/R method, visual comparison	2000	3000	K			30	K	2	95%	No	Approved on 30 September 2010
Correlated colour temperature	Tungsten lamp	Chromaticity lines near Planckian curve	1500	3200	K			60	K	2	95%	No	Approved on 30 September 2010