



Illuminance Meter Certificate of Calibration
October 2023

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Chapter 13 - Appendix 13.1

Illuminance Meter Certificate of Calibration
October 2023

Issue and Revision Record

Revision	Date	Originator	Checker	Approver	Description
P01	20/10/2023	DS	JM	CS	Appendix 13.1 to ES Chapter 13 - Lighting. Illuminance Meter Certificate of Calibration.

Information class: Standard

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1 Illuminance Meter Certificate of Calibration



Figure 1.1: Konica Minolta T-10A illuminance meter Certificate of Calibration Page 1

Certificate of Calibration

As Found Results

Certificate number STD_146944

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Reference equipment used in the calibration:

Instrument description Light Bench (ZZMLB02) Light Bench (ZZMLB03) Distance Measuring System (ZZMLB04)	Serial number	Certificate number	Last cal. date	Cal. period
	18425/2 & 18426/1	ZZMLB02 - 2023	02/03/2023	12 Months
	18425/1 & 18427/1	ZZMLB03 - 2023	02/03/2023	12 Months
	4816	ZZMLB04 - FEB 2023	08/02/2023	12 Months

Calibration uncertainties:

The reported measurement uncertainty values shown have been calculated taking into account the device resolution and stability at the time of calibration.

Instrument contents:

Main unit	Yes
Detector head	
Zero cap	Yes
Meter adapter head	Yes
Cat 5 cable	Yes
	Yes
Receptor head	Yes
x2 batteries fitted	Yes
x2 batteries spare	Yes
Manual	Yes
Certificate	Yes
Soft case	
Hard carry case	Yes
,	Yes
Increation results:	

Inspection results:

Visual inspection	Pass
Integrity seals	Pass
Memory cleared	
Mode set to lx	Pass
	Pass

Figure 1.2: Konica Minolta T-10A illuminance meter Certificate of Calibration Page 2

Certificate of Calibration

As Found Results

Certificate number STD_146944

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Calibration procedure:

The instrument was calibrated against laboratory standards which are themselves traceable back to National Standards. The illuminance measurements were conducted in accordance with the methodology contained in BS667 using a tungsten filament lamp with a colour temperature of 2856 k. Illuminance levels were calculated using an inverse square law with respect to distance away from a tungsten filament lamp source.

Calibration results:

Illuminance - lux range

Unit under test display zeroed before test

Applied	Indicated	Correction	Specification	% of Spec.	Uncertainty
50.00 lux	51.0 lux	-1.00 lux	±2.50 lux	40.0 %	2.5 lux
100.0 lux	101.6 lux	-1.6 lux	±5.0 lux	32.0 %	5.0 lux
200.0 lux	201.5 lux	-1.5 lux	±10.0 lux	15.0 %	10 lux
500.0 lux	500 lux	0.0 lux	±25.0 lux	0.0 %	25 lux
1000.0 lux	985 lux	15.0 lux	±70.0 lux	21.4 %	50 lux
2000.0 lux	1945 lux	55.0 lux	+140.0 lux	30.3 %	100 lux

Pass

Any test points marked with a * do not comply with instrument specification.

End.

Figure 1.3: Konica Minolta T-10A illuminance meter Certificate of Calibration Page 3



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