



HOCKER INC. ACUS-0
ILLUMINANCE AND IRRADIANCE METER
CALIBRATION CERTIFICATE



Calibrated Unit:	D0ACA552F446	Certificate Number:	H984
Hand Unit:	#3306	Calibration Date:	June 8, 2026
Date of Receipt:	June 5, 2026	Calibration Due Date:	December 8, 2026
Object State:	Upon arrival, the sensor unit had no visible damages		

Manufacturer and Product			
Manufacturer:	Labino AB	Country:	Sweden
Product:	Apollo 3.0 UV-A and Visible Light Meter		
Place of Calibration:	20212 HEMPSTEAD RD BLDG 3, HOUSTON, TX, 77065		

Equipment Used for Calibration			
Illuminance Meter:	Apollo 3.0		
Serial Number:	D160CF6DD395	Traceability:	105105-1325131-K03
Calibration Date:	May 26, 2026	Calibration Due Date:	August 26, 2026
UVA Meter:	Apollo 3.0		
Serial Number:	D160CF6DD395	Traceability:	105105-1325131-K03
Calibration Date:	May 26, 2026	Calibration Due Date:	August 26, 2026

Environmental Conditions			
Room Temperature:	76°F	Humidity:	50%

Customer Information	
Customer:	P&B Testing
Address:	6645 W Tidwell
	Houston, TX, 77092
	USA
Tolerance As Found:	OUT OF TOLERANCE
Customer Notes:	PO#: 87205 HOCKER SO#: 66589

Reading BEFORE Adjustment				
Visible Light				
Position	Reference Reading (fc)	Photometer Reading (fc)	Absolute Deviation (fc)	Relative Deviation
1	0	0	0	0
2	1.86	1.84	-0.02	-0.9%
3	14.72	14.69	-0.03	-0.2%
4	46.47	46.44	-0.03	-0.1%
5	185.90	185.50	-0.40	-0.2%
6	464.10	462.80	-1.30	-0.3%
UV-A Light				
Position	Reference Reading (μW/cm ²)	Radiometer Reading (μW/cm ²)	Absolute Deviation (μW/cm ²)	Relative Deviation
1	0	0	0	0
2	500.6	491.6	-9	-1.8%
3	2004	1923	-81	-4.0%
4	4986	4680	-306	-6.1%
5	10050	9678	-372	-3.7%



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Reading AFTER Adjustment				
Visible Light				
Position	Reference Reading (fc)	Photometer Reading (fc)	Absolute Deviation (fc)	Relative Deviation
1	0	0	0	0
2	1.86	1.85	-0.01	-0.6%
3	14.72	14.67	-0.05	-0.4%
4	46.47	46.43	-0.04	-0.1%
5	185.90	185.80	-0.10	-0.1%
6	464.10	464.10	0.00	0.0%
UV-A Light				
Position	Reference Reading (μW/cm ²)	Radiometer Reading (μW/cm ²)	Absolute Deviation (μW/cm ²)	Relative Deviation
1	0	0	0	0
2	500.6	512.8	12.2	2.4%
3	2004	2005	1	0.0%
4	4986	4868	-118	-2.4%
5	10050	10071	21	0.2%

Hocker Inc. is responsible for all information contained in this certificate. It only applies to the indicated unit. It is not valid without signatures, and its copyright is owned by Hocker Inc. and may not be reproduced other than in full except with the prior written approval of Hocker Inc.. Calibration and adjustments were made according to the procedure "TM.PM.15_R5 Illuminance and Irradiance Meter Calibration_Method Description". The reference unit is calibrated by Labino AB, Sweden. The units for the quantities irradiance and illuminance are realized using spectral irradiance standard lamps which are traceable to the National Institute of Standards and Technology (NIST), USA.

Before adjustment, deviations to the reference unit are required to be within ±5% to be considered In Tolerance. Any readings found greater than that deviation will be taken as Out of Tolerance. After adjustment, the deviations to the reference unit are within ± 3 % for visible light and ± 4 % for UV-A light as required for approval. The UV-A irradiance meter can only be used for filtered, narrow-band light sources centered around 365 nm as used, e.g., for non-destructive testing. Calibration and compliance statements are the professional opinions of Hocker Inc.

In the visible, the expanded uncertainties are between 3.0% and 3.6% of the indicated calibration values. In the UV-A region, the expanded uncertainties are between 4.0% and 4.8% of the indicated calibration values. The reported expanded uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which, for a normal distribution, corresponds to a coverage probability of approximately 95%. The standard uncertainty has been determined in accordance with the European accreditation publication EA-4/02 M:2013. The long-term stability of the calibrated object is not included in the reported expanded uncertainty of measurement. This certificate may not be reproduced except in full without written approval of Hocker Inc.

Calibrated By: Patricia Lock
 Lab Technician
Patricia Lock
 Signature

Approved By: Derrick Schumann
 Lab Supervisor
Derrick Schumann
 Signature

Date: 6/8/2026