

SMF/Laboratory system

P/N: PAD 002-02

S/N: AD 02-020-4821

Measurement Sensor Bar

P/N: PAG 001-15-01

S/N: AG 02-005-4821

Turn Table

P/N: PAD 002-02-01

S/N: AD 02-019-4821

Calibration Certificate

Customer:

End User:



SMF/Laboratory System Calibration Certificate

Certificate Document ID	:	3	40	CCAM	4	
Certificate Serial number	:	40	CCAM	1088	25	24
SMF/Laboratory Model	:	P	AD	002	02	
SMF/Laboratory Serial Number	:	AD	02	020	48	21
Sensor Bar Model	:	P	AG	001	15	01
Sensor Bar Serial Number	:	AG	02	005	48	21
Turn Table Model	:	P	AD	002	02	01
Turn Table Serial Number	:	AD	02	019	48	21
Commissioner	:	ARGOS Ingegneria Srl Via Tiburtina 1166 00156 Rome Italy				
Calibrated on	:	June 25 th 2024				
Next calibration within	:	June 24 th 2026				

Service Manager:



Service Technician:



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Sensor Bar - Inspection Record

Certificate Document ID	:	3	40	CCAM	4	
Certificate Serial number	:	40	CCAM	1088	25	24
SMF/Laboratory Model	:	P	AD	002	02	
SMF/Laboratory Serial Number	:	AD	02	020	48	21
Sensor Bar Model	:	P	AG	001	15	01
Sensor Bar Serial Number	:	AG	02	005	48	21
Calibrated on	:	June 25 th 2024				

Check Point	Result	Remarks
Conditions of Instrument	√	
Plugs	√	
Sensors Covers	√	
Screws	√	
Analogic Output	√	
Digital Output	√	
Sensors	√	
SW Licence	√	Updated to release 4.2.15 including SW processing module 23.03.02



Illuminance and Chromaticity - White colour

Certificate Document ID	:	3	40	CCAM	4	
Certificate Serial number	:	40	CCAM	1088	25	24

Sensor Bar Model	:	P	AG	001	15	01
Sensor Bar Serial Number	:	AG	02	005	48	21

Calibrated on : June 25th 2024

Illuminance Measured Data:

Sensor	Reference E [lx]	Sensor E [lx]	Error %	Requirement %	Result
1	2712.5	2688.6	-0.88	$\leq \pm 5$	OK
2	2659.3	2641.1	-0.68	$\leq \pm 5$	OK
3	2775.3	2699.7	-2.72	$\leq \pm 5$	OK
4	2746.3	2701.2	-1.64	$\leq \pm 5$	OK
5	2544.7	2551.2	0.26	$\leq \pm 5$	OK
6	2805.1	2843.2	1.36	$\leq \pm 5$	OK
7	2656.2	2711.9	2.10	$\leq \pm 5$	OK
8	2580.9	2613.6	1.27	$\leq \pm 5$	OK
9	2271.8	2304.3	1.43	$\leq \pm 5$	OK
10	2496.0	2554.3	2.34	$\leq \pm 5$	OK
11	2823.0	2803.2	-0.70	$\leq \pm 5$	OK
12	2923.3	3008.2	2.90	$\leq \pm 5$	OK
13	2340.3	2395.4	2.35	$\leq \pm 5$	OK
14	2711.5	2678.6	-1.21	$\leq \pm 5$	OK
15	2469.0	2412.1	-2.30	$\leq \pm 5$	OK
16	2600.7	2579.7	-0.81	$\leq \pm 5$	OK
17	2539.5	2602.4	2.48	$\leq \pm 5$	OK

E = Illuminance

Chromaticity Measured Data:

Coordinate	Reference	Colorimeter	Error	Requirement	Result
x	0.424	0.433	0.009	± 0.03	OK
y	0.401	0.413	0.012	± 0.03	OK



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Illuminance and Chromaticity - Red colour

Certificate Document ID	:	3	40	CCAM	4	
Certificate Serial number	:	40	CCAM	1088	25	24

Sensor Bar Model	:	P	AG	001	15	01
Sensor Bar Serial Number	:	AG	02	005	48	21

Calibrated on : June 25th 2024

Illuminance Measured Data:

Sensor	Reference E [lx]	Sensor E [lx]	Error %	Requirement %	Result
1	1099.5	1075.3	-2.20	$\leq \pm 5$	OK
2	973.5	965.4	-0.83	$\leq \pm 5$	OK
3	917.6	912.5	-0.56	$\leq \pm 5$	OK
4	850.4	867.3	1.99	$\leq \pm 5$	OK
5	932.6	934.2	0.17	$\leq \pm 5$	OK
6	910.2	900.1	-1.11	$\leq \pm 5$	OK
7	875.1	887.6	1.43	$\leq \pm 5$	OK
8	996.7	1001.4	0.47	$\leq \pm 5$	OK
9	1081.0	1103.2	2.05	$\leq \pm 5$	OK
10	1050.8	1070.7	1.89	$\leq \pm 5$	OK
11	968.5	953.2	-1.58	$\leq \pm 5$	OK
12	890.3	903.7	1.51	$\leq \pm 5$	OK
13	991.1	1001.4	1.04	$\leq \pm 5$	OK
14	955.0	967.5	1.31	$\leq \pm 5$	OK
15	883.9	870.0	-1.57	$\leq \pm 5$	OK
16	950.3	936.0	-1.50	$\leq \pm 5$	OK
17	809.6	830.9	2.63	$\leq \pm 5$	OK

E = Illuminance

Chromaticity Measured Data:

Coordinate	Reference	Colorimeter	Error	Requirement	Result
x	0.674	0.659	-0.015	± 0.03	OK
y	0.313	0.321	0.008	± 0.03	OK



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Turn Table – Inspection Record

Certificate Document ID	:	3	40	CCAM	4	
Certificate Serial number	:	40	CCAM	1088	25	24
Turn Table Model	:	P	AD	002	02	01
Turn Table Serial Number	:	AD	02	019	48	21
Calibrated on	:	June 25 th 2024				

Check Point	Result	Remarks
Conditions of Instrument	√	
Plugs	√	
Sensors	√	
Screws	√	
Belt	√	
LAN Communication cable	√	

MEASURED REFERENCE PULSES PER 1 ARC-DEGREE = 10,043



Reference Instrument

Certificate Document ID	:	3	40	CCAM	4	
Certificate Serial number	:	40	CCAM	1087	24	24

Sensor Bar Model	:	P	AG	001	18	02
Sensor Bar Serial Number	:	AG	02	001	19	22

Calibrated on : June 14th 2024

Test Equipment

Maker and model : Konica Minolta CL200A 30049297 / 20035565

White Light : Runway Center line White/Red

Red Light : Runway Center line White/Red

Yellow Light : Taxiway Center line Green/Yellow
Taxiway Center line curve Yellow/Yellow

Environmental Conditions

Temperature : 21°C +/- 1°C

Humidity : <85%

Room Illuminance : < 5 lux

