



TECHNOLOGY PROMOTION ASSOCIATION (THAILAND-JAPAN)
CALIBRATION SERVICES AND ENVIRONMENTAL ANALYSIS DEPARTMENT

534/4 PATTANAKARN ROAD SOI 18, SUANLUANG, SUANLUANG, BANGKOK 10250
TEL. 0-2717-3000-24 FAX. 0-2719-9484



Certificate of Calibration

Certificate No. : 18PH253

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Equipment : Digital Lux Meter

Manufacturer: Digicon

Model : LX-73

Serial No.: Q606426

ID No.: -

Condition As-Received: Used Item

Received Date: 08 June 2018

Calibration Date: 22 June 2018

Reference: 1806-0440WN

Submitted by: MAEJO UNIVERSITY

Ambient Temperature: (23 ± 2) °C

Relative Humidity: (50 ± 15) %

This certificate may not be reproduced other than in full,
except with the prior written approval of the head of
Calibration Services and environmental analysis department.

63 Moo 4, Nong Nong Daeng, Sansai Chiang Mai 50290
Thailand

Procedure used: Calibration were conducted using In-house calibration procedure CP-PH01 by measuring against luminous-intensity standard lamp (source-based method) According to the inverse square law measurement method.

Condition of this result of calibration

1. Reference standards instruments :

<u>Instrument</u>	<u>Model</u>	<u>Serial No.</u>	<u>Certificate No.</u>	<u>Due Date</u>
1) Photometry & Encorder	LMguide 9,6 m	120RC003	61-140006-1	30 Apr 2021
2) High-accuracy Irradiance Standard	OL-FEL-U	F-1472	PP-1035-17	02 Oct 2018

2. This result of calibration was made on requested at the point specified by customer.

3. Test Equipment : Programmable Voltage/Current Source (Model : OL83A, S/N : 16221394).

4. Test Equipment : Illuminance Meter (Model : 51002, S/N : 080129).

5. This result of calibration was found accurate as shown on date and place of calibration only.

6. This Certification is traceable to the International System of Unit maintained at:-

-National Institute of Metrology Thailand (NIMT)

Calibrated by : Nuntawat Khamchai

Issue Date : 25 June 2018

Approved Signatory : 

[] Mitr Veeratham

[] Phalinee Prabpaipal

[] Nuntawat Khamchai



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Result of calibration:- (*) Without adjustment () After adjustment

Function : Illuminance Measurement

Range : 40 lx

<u>Standard Value</u>	<u>UUC* Reading</u>	<u>Error</u>	<u>Uncertainty</u>
(lx)	(lx)	(lx)	(± lx)
0	0.00	0.00	0.058
20	20.02	0.02	0.26
28	28.02	0.02	0.37
36	36.01	0.01	0.47

Function : Illuminance Measurement

Range : 400 lx

<u>Standard Value</u>	<u>UUC* Reading</u>	<u>Error</u>	<u>Uncertainty</u>
(lx)	(lx)	(lx)	(± lx)
40	39.2	-0.8	0.52
120	120.5	0.5	1.6
200	201.5	1.5	2.6
280	282.9	2.9	3.7
360	362.2	2.2	4.7

Function : Illuminance Measurement

Range : 4000 lx

<u>Standard Value</u>	<u>UUC* Reading</u>	<u>Error</u>	<u>Uncertainty</u>
(lx)	(lx)	(lx)	(± lx)
400	396	-4	5.2
1200	1202	2	16
2000	2004	4	26
2800	2802	2	37
3600	3602	2	47

Function : Illuminance Measurement

Range : 40000 lx

<u>Standard Value</u>	<u>UUC* Reading</u>	<u>Error</u>	<u>Uncertainty</u>
(lx)	(lx)	(lx)	(± lx)
4000	4010	10	52
5000	5000	0	65

The reported uncertainty of measurement was based on a standard uncertainty multiplied by a coverage factor $k = 2$, providing a level of confidence of approximately 95 %

UUC* = Unit Under Calibration.

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