

## 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.: 18PH254

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Equipment:

Digital Lux Meter

Manufacturer:

Digicon

This certificate may not be reproduced other than in full, except with the prior written approval of the head of

Model:

LX-73

Calibration Services and environmental analysis department.

Serial No.:

Q606416

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) %

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

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

Thailand

method.

## Condition of this result of calibration

1.Reference standards instuments:

<u>Instrument</u>	<u>Model</u>	Serial No.	Certificate No.	<b>Due Date</b>
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: Issue Date:

Nuntawat Khamchai

25 June 2018

Approved Signatory:

] Mitr Veeratham

] Phalinee Prabpaipal

[ ] Nuntawat Khamchai



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Result of calibration:-	thout adjustment ()After	· adiustment		
Function: Illuminance Measurement	Range:	40	lx	
Standard Value	UUC* Reading	<b>Error</b>		<b>Uncertainty</b>
( lx )	( lx )	( lx )		( ± lx )
0	0.00	0.00		0.058
20	20.00	0.00		0.26
28	28.01	0.01		0.37
36	36.00	0.00		0.47
Function: Illuminance Measurement	Range :	400	lx	
Standard Value	<b>UUC* Reading</b>	<b>Error</b>		<u>Uncertainty</u>
( lx )	( lx )	( lx )		( ± lx )
40	39.0	-1.0		0.52
120	119.8	-0.2		1.6
200	201.4	1.4		2.6
280	281.1	1.1		3.7
360	361.4	1.4		4.7
Function: Illuminance Measurement	Range :	4000	lx	
Standard Value	UUC* Reading	<b>Error</b>		<b>Uncertainty</b>
( lx )	( lx )	( lx )		( ± lx )
400	393	-7		5.2
1200	1197	-3		16
2000	2001	1		26
2800	2799	-1		37
3600	3599	-1		47
Function: Illuminance Measurement	Range :	40000	lx	
Standard Value	UUC* Reading	<b>Error</b>		<u>Uncertainty</u>
( lx )	( lx )	( lx )		( ± lx )
4000	3980	-20		52
5000	5020	20		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.