



# ใบรับรองเครื่องวัดแสง



## INTERNATIONAL TESTING SERVICE CO., LTD

1213/388 Ladprao 94 Ladprao Rd. Wangtonglang Bangkok 10310  
Tel 0-2559-2095 Fax 0-2559-2096

E-mail : sale@itest-lab.com web site : [www.itest-lab.com](http://www.itest-lab.com)



Request No : C-1307 - 302

Laboratory No.: CAL - 302

Serial No. : 11067316

### Results :

UUC Range	Standard (lx)	UUC Reading (lx)		Correction (lx)	Uncertainty of Measurement ( ± lx)
		Before adjust	After adjust		
Auto	0	00.0	00.0	0.0	0.6
	100	85.5	103.9	- 3.9	1.4
	500	410	500	0	7.0
	1000	821	1000	0	14.0
	1500	1224	1499	+ 1	21.0
	2000	1634	1994	+ 6	28.0

Calibration result approved by

(Mr. Yuttana Tholueng)



Approved on behalf of  
International Testing Service Co., Ltd

(Mr. Fichit Vivat-Anant)

Managing Director



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# CALIBRATION CERTIFICATE

Issued date : 11 July 2013

Client Name : **FACULTY OF ENVIRONMENT AND RESOURCE STUDIES, MAHIDOL UNIVERSITY.**

Address : 999 Moo 5, Phuttamonthon Soi 4 Rd., Phutthamonthon, Salaya, Nakorn Pathom 73170.

Request No : **C-1307 - 302**

Laboratory No.: **CAL - 302**

Date of Request : 10 July 2013.

Date of Calibration : 10 July 2013.

### 1. Unit Under Calibration ( UUC ) :

Nomenclature : Auto Ranging Light Meter

Serial No.: 11067316

Maker : CEM

Model : DT-1309

2. Place of Calibration : Photometry Standard Laboratory, INTERNATIONAL TESTING SERVICE CO., LTD.

3. Range of Calibration : 1 Range

4. Condition of Laboratory : Ambient temperature :  $25 \pm 2$  °C and relative humidity  $60 \pm 20$  %.

5. Reference Standard : Standard Tungsten Halogen Lamp , Serial No.: 504007 , which was calibrated on 27 May 2013, can be traceable to International System of Unit (SI) through National Institute of Metrology (Thailand), Certificate No.: PP-1010-13.

### 6. Support Equipment :

1. Photometric bench , 6.3 meter long.

2. DC. power supply, Serial No.: EJ 19A 009, Model : GPR-25H 300 , Maker : GW INSTEK.

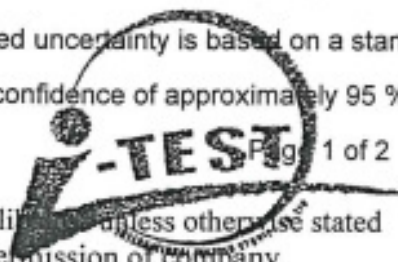
3. Digital Multimeter , Model : 34401A , S/N : MY44011212 and MY44011215.

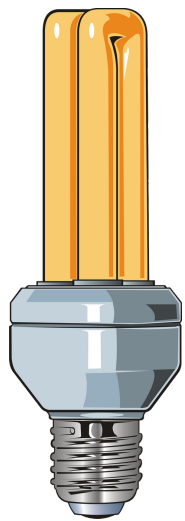
4. Foot Candle / Lux Meter , Model : 407026, S/N : Q 558437, Maker : EXTECH.

### 7. Calibration Procedure :

The measurement was done in accordance with WI-CP-01. The reported uncertainty is based on a standard uncertainty multiplied by a coverage factor  $k = 2$  , providing a level of confidence of approximately 95 %.

The Results shown in this certification report refer only to the equipment(s) calibrated unless otherwise stated  
This Calibration Certificate cannot be reproduced, except in full, without permission of company.





# เครื่องวัดแสงจะต้องมีมาตรฐาน

