



財團法人全國認證基金會
Taiwan Accreditation Foundation

Certification Accreditation

(Certificate No : L3146-211231)

This is to certify that

DEKRA iST Reliability Services Inc.

Reliability Testing Laboratory

1F, No. 22, Puding Road, Hsinchu City, Taiwan

is accredited in respect of laboratory

Accreditation Criteria : ISO/IEC 17025:2017 ; CNS 17025:2018

Accreditation Number : 3146

Originally Accredited : November 12, 2015

Effective Period : January 10, 2022 to September 09, 2024

Accredited Scope : Testing Field, see described in the Appendix

Specific Accreditation Program : Accreditation Program for Laboratory of U.S. EPA
ENERGY STAR



Scan to verify

Ching-Chang Lien

Ching-Chang Lien
President, Taiwan Accreditation Foundation
December 31, 2021

Accreditation Number : 3146

Laboratory Head : LEE, General

▼ 18. 01 Commodity

LEDs (Package, Module, Array)

O025 Lumen maintenance

IESNA LM-80-15

IESNA LM-80-20

Lumen range: 1 lm to 22000 lm

Current range: 0 Adc to 10 Adc

Temperature: 125°C max

Approval Signatory: LEE, General; CHEN, Max

Testing Site: 1.1F, No. 22, Puding Road, Hsinchu City, Taiwan; 2.6F No. 19, Puding Road, Hsinchu City 300, Taiwan

▼ 19. 99 Electronic and Electric

Electronic and Electric

E003 Salt mist

IEC 60068-2-11

IEC 60068-2-52 (include test method 1~7)

MIL-STD-810 Method 509

EN50155 13.4.10

IEC 60571 12.2.11

Approval Signatory: LIN, Longson; CHEN, Wang-Chu; CHEN, Injel

Testing Site: 1.6F No. 19, Puding Road, Hsinchu City 300, Taiwan

▼ 19. 99 Electronic and Electric

Electrical & Electronics Product

E003 Low pressure, altitude tests

IEC 60068-2-13

IEC 60068-2-40 (1983)

IEC 60068-2-41 (1983)

MIL-STD-810 Method 500

Approval Signatory: LEE, General; LIN, Long-Son; CHEN, Wang-Chu; CHEN, Injel

E003 Thermal shock tests

IEC 60068-2-14 Test Na

IPC-TM-650 2.6.6, 2.6.7 Series

IEC 60810

Temperature: -65 °C to 180 °C

Approval Signatory: LEE, General; LIN, Long-Son; CHEN, Max; CHEN, Injel; PENG, Michael



E003 Temperature cycling tests
IEC 60068-2-14 Test Nb
MIL-STD-810 Method 503
JESD22-A104
Temperature: -65 °C to 150 °C

Approval Signatory: LEE, General; LIN, Long-Son; CHEN, Injel
Testing Site: 1.No.23, Puding Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.) ; 2.6F
No. 19, Puding Road, Hsinchu City 300, Taiwan ; 3.1F, No.22, Pu-Ding Rd., Hsin-chu city
300, Taiwan

E003 Temperature tests
IEC 60068-2-2
IEC 60068-2-1
JESD22-A108
MIL-STD-810 Method 501
MIL-STD-810 Method 502
EN50155 13.4.4
EN50155 13.4.5
EN50155 13.4.6
IEC 60571 12.2.4
IEC 60571 12.2.5
IEC 60571 12.2.15
MIL-STD-202 Method 108
MIL-STD-883 Method 1005, 1015
MIL-STD-750 Method 1038
Temperature: -60°C~150 °C

Approval Signatory: LEE, General; LIN, Long-Son; CHEN, Wang-Chu; CHEN, Max;
CHEN, Injel; PENG, Michael
Testing Site: 1.No.23, Puding Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.) ; 2.6F
No. 19, Puding Road, Hsinchu City 300, Taiwan ; 3.1F, No.22, Pu-Ding Rd., Hsin-chu city
300, Taiwan

E003 Shock tests
IEC 60068-2-27
MIL-STD-810 Method 516
EN50155 13.4.11.3
IEC 60571 12.2.12
EN 61373 10
Acceleration: 600 g Pulse Duration: (0.1 to 65) ms Wave Form: Half-sine Trapezoid
Terminal peak sawtooth

Approval Signatory: LEE, General; LIN, Long-Son; CHEN, Wang-Chu; CHEN, Injel
Testing Site: 1.No.23, Puding Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.) ; 2.1F,
No.22, Pu-Ding Rd., Hsin-chu city 300, Taiwan

E003 Free fall tests
IEC 60068-2-31
MIL-STD-810 Method 516
Drop height: up to 150 cm

Approval Signatory: LEE, General; LIN, Long-Son; CHEN, Wang-Chu; CHEN, Injel
Testing Site: 1.No.23, Puding Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.) ; 2.1F,
No.22, Pu-Ding Rd., Hsin-chu city 300, Taiwan
P3, total 5 pages



E003 Vibration Test
IEC 60068-2-6
IEC 60068-2-64
MIL-STD-810 Method 514
EN50155 13.4.11.2
EN50155 13.4.11.4
IEC 60571 12.2.12
EN 61373 8
EN 61373 9
Frequency: 5 Hz to 2000 Hz
Wave Form: Sine, Random

Approval Signatory: LEE, General; LIN, Long-Son; CHEN, Wang-Chu; CHEN, Injel
Testing Site: 1.No.23, Puding Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.) ; 2.1F,
No.22, Pu-Ding Rd., Hsin-chu city 300, Taiwan

E003 Humidity tests
IEC 60068-2-78
IPC-TM-650 2.6.3 Series/2.6.14Series/2.6.25
BellCore GR-78-Core
IEC 60068-2-30
MIL-STD-810 Method 507
EN50155 13.4.7
IEC 60571 12.2.6
MIL-STD-202 Method 103
Humidity: 5 %RH to 95 %RH

Approval Signatory: LEE, General; LIN, Long-Son; CHEN, Wang-Chu; CHEN, Injel;
PENG, Michael
Testing Site: 1.No.23, Puding Rd., East Dist., Hsinchu City 300, Taiwan (R.O.C.) ; 2.6F
No. 19, Puding Road, Hsinchu City 300, Taiwan ; 3.1F, No.22, Pu-Ding Rd., Hsin-chu city
300, Taiwan

E003 Rain tests
IEC 60529
EN50155 13.4.12
IEC 60571 12.2.13
IPX1 to IPX8

Approval Signatory: LEE, General; LIN, Long-Son; CHEN, Injel
Testing Site: 1.6F No. 19, Puding Road, Hsinchu City 300, Taiwan

E003 Sand and dust tests
IEC 60529
EN50155 13.4.12
IEC 60571 12.2.13
IP5X to IP6X

Approval Signatory: LEE, General; LIN, Long-Son; CHEN, Injel
Testing Site: 1.6F No. 19, Puding Road, Hsinchu City 300, Taiwan



Accreditation Program for Laboratory of U.S. EPA ENERGY STAR

▼ 18. 01 Commodity
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Approval Signatory: LEE, General; CHEN, Max
Testing Site: 1.1F, No. 22, Puding Road, Hsinchu City, Taiwan; 2.6F No. 19, Puding Road,
Hsinchu City 300, Taiwan

(Null below)

