

# In Situ Temperature Measurement Test Report

For

## HOCAN GROUP CO.,LTD

### (Brand Name: SEPICN LED LIGHTING)

Rm.1902, Easey Comm. Bldg., 253-261 Hennessy Road, Wanchai, Hong Kong

### Direct Linear Ambient Luminaires

### High-bay Luminaires for Commercial and Industrial Buildings

Model name(s): HC-TF-4FT-100W, HC-TF-4FT-100W-X

Remark: The model name with suffix “-X” stand for dimmable, without stand for un-dimmable

Representative (Tested) Model: HC-TF-4FT-100W-X(3000K)

Model Different: All construction and rating are the same, except CCT

Test & Report By:

*Johnson Sun*

Engineer: Johnson Sun

Date: May.20,2016

Review By:

*Tommy Liang*

Manager: Tommy Liang

Note: This report does not imply product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

Laboratory: Standard-Tech Co. Ltd Testing Center  
NVLAP CODE: 201011-0

Report Format Number STD/QR4918-A/0

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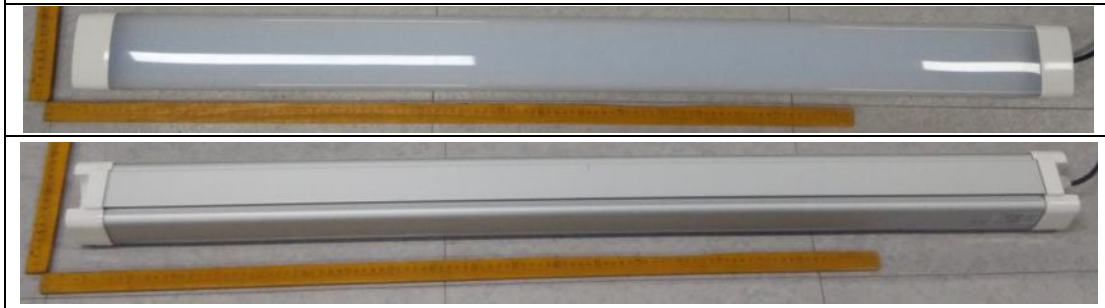
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# 1 General

## 1.1 Product Information

Brand Name	SEPICN LED LIGHTING
Model Number	HC-TF-4FT-100W,HC-TF-4FT-100W-X
Luminaire Type	Direct Linear Ambient Luminaires; High-bay Luminaires for Commercial and Industrial Buildings
Nominal Power	100W
Rated Initial Lamp Lumen	--
Declared CCT	3000K ,4000K,5000K
[Luminaire Aperture] [Size]	--
LED Manufacturer	Shenzhen Runlite Technology Co., Ltd
LED Model	T2835
Sample Receipt Date	May.10,2016
Sample Number	GZE160464-A1

**Photo**



## 1.2 Standards or methods

The following standards are partly or totally used or referenced for test:

No.	Name
ANSI/UL 1598:2008	Luminaires

## 1.3 Equipment list

Equipment ID	Equipment Name	Last Calibration Date	Next Calibration Date
PF210	Power Meter	2015-07-01	2016-06-30
ST-R-181A	Temperature Tester	2015-07-01	2016-06-30

# 2 Test conducted and method

## 2.1 Ambient Condition

Test was conducted in an ambient temperature of  $25 \pm 5^{\circ}\text{C}$ . Ambient temperature variations above or below  $25^{\circ}\text{C}$  was subtracted from or added to temperatures recorded at points on the luminaire.

The ambient temperature was measured by a thermocouple which was immersed in 15ml of mineral oil in a glass container.

## 2.2 Temperature Stabilization

Temperatures were measured after they have stabilized when the test has been running for a minimum of 7.5 hours, or the test has been running for a minimum of 3 hours and three successive reading taken at 15 minutes intervals are with  $1^{\circ}\text{C}$  of another and are not rising.

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## 2.3 Thermocouples

Type J thermocouple was used for temperature measurement. The thermocouple was 0.05mm<sup>2</sup>(30AWG), and complied with the requirements specified in ASTM MNL 12 and limits of error specified in NIST ITS 90 and ISA MC96.1.

## 2.4 Thermocouples contact

Thermocouples were in contact with the TMP LED location described in LM-80 test report. In order to gain the maximum temperature, if appropriate, more than one thermocouple were contact in these locations. For details information, please refer to clause 3.3 for the photo of thermocouple contact.

### 3 Test Results

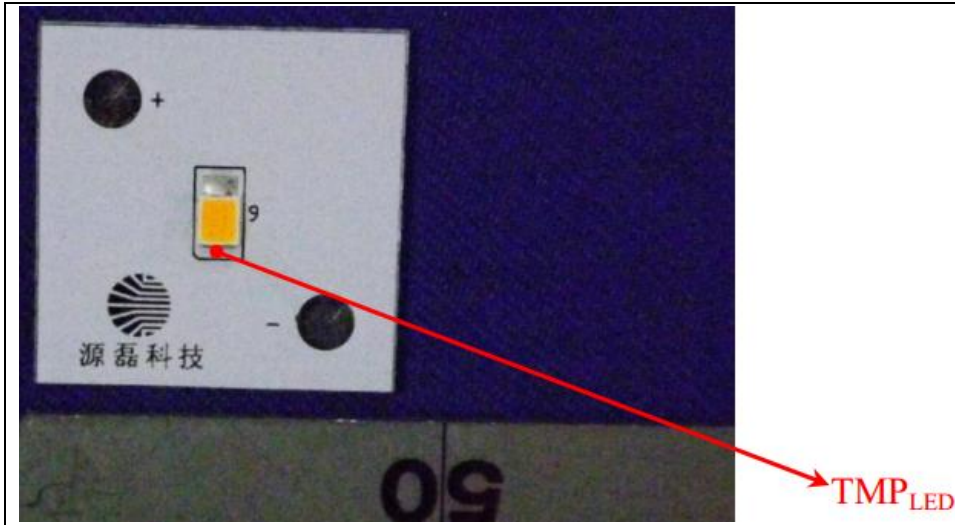
Test date	2016-05-15	Test Ambient	25.2 °C
Sample No.		LED Package Model	
GZE160464-A1		T2835	
LED driver of Each Lamp	Output voltage V	Measured LED working current (Max.) mA	
1	36.8	86.1	

### 3. Data :

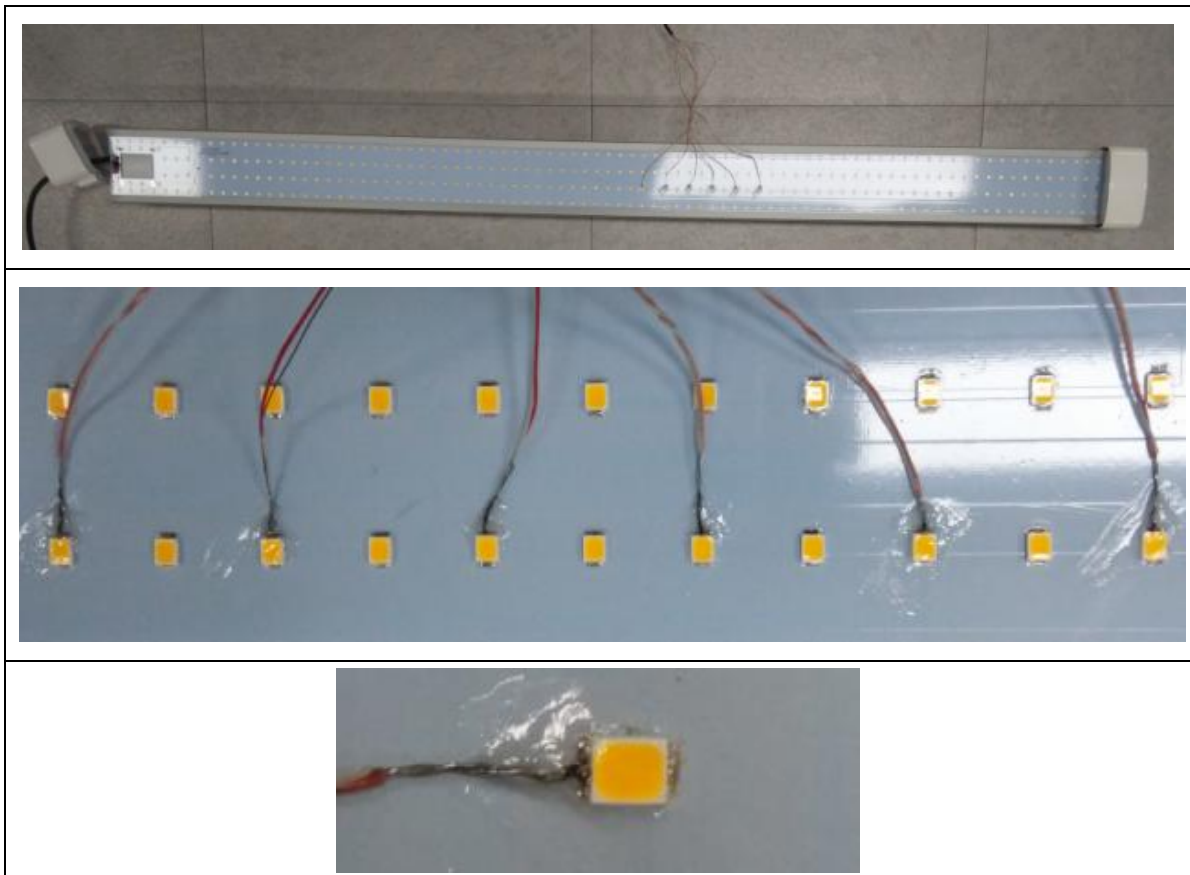
Input Vol.	120.0V	Input Current	0.8273A	Input Wattage	98.13W	Temperature stabilization time:	500 min	
No.	Temperature (°C)		No.	Temperature (°C)		No.	Temperature (°C)	
	Measured	Corrected at 25°C		Measured	Corrected at 25°C		Measured	Corrected at 25°C
1	56.5	56.4	3	57.4	57.3	5	56.9	56.8
2	56.7	56.6	4	56.1	56.0	6	55.6	55.5
The highest in-situ measured temperature LED is 57.3°C								

### 3.2 Test Photo:

Ts Position:



Thermocouple Location on Temperature Measurement Point (TMP):



## Results

Time (t) at which to estimate lumen maintenance (hours):	36,000
Lumen maintenance at time (t) (%):	78.54%
Reported L70 (hours):	>36000

Model	Number of parallel	Measured LED working current (Max.) mA
HC-TF-2FT-30W	16	43.4
HC-TF-2FT-30W-X	16	43.6
HC-TF-4FT-30W	28	24.5
HC-TF-4FT-30W-X	28	24.8
HC-TF-4FT-60W	28	52.0
HC-TF-4FT-60W-X	28	52.4
HC-TF-4FT-100W	28	85.8
HC-TF-4FT-100W-X	28	86.1

\*\*\*\*\* END OF THE TEST REPORT\*\*\*\*\*