

### **Test Report**

Repoet No.: LT-201806-001

Date

: 2018/06/01

Page

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Sample Submitted By : TOP HI – TECH CO., LTD

Address

: 9F, No.1, Zhongshan Road, Tucheng Dist. New Taipei City, 23680, Taiwan

**Sample Description** 

: LED LIGHTING FOR USE IN HAZARDOUS AND HARSH

LOCATION (MODEL L1102 – 100W)

**Sample Receiving Date**: 2016/07/01

**Testing Period** 

: 2016/07/10 - 2016/07/21

Note

: 1. The above information is provided by the customer. (excluding the

dates of receipt and test).

2. Unless otherwise stated, the test results presented in this report relate

only to the samples tested.

3. This report cannot be partially reproduced without the written approval

of the Institute of Undersea Technology.

In accordance with the request of the client, the Institute of Undersea Technology conducts tests according to the samples sent by the client. The test method is as follows:

**Test Requirement**: Low Temperature Test.

: Sanyo MDF-U32V Ultra-Low Temperature Freezer (as shown at page 3). **Test Equipment** 

**Testing Procedure**: 1. Expose the power-off LED Lighting at -70°C in the Ultra-Low Temperature

Freezer for 5-6 days, and then take it out from the freezer.

2. Power on the LED Lighting in 15 seconds after it is taken out from the

Ultra-Low Temperature Freezer.

3. The LED Lighting is power-on tested for 1 minute.

4. Repeat steps 1-3 above two times.



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: LED LIGHTING FOR USE IN HAZARDOUS AND HARSH

LOCATION (MODEL L1102 – 100W)

#### **Test Results:**

Test No.	Test Temperature	LED Lighting is powered off At Low Temperature			Power-on
		Start Time	End Time	Total Time	Test Results
LT-201806-001-1	-70°C	2016/07/10	2016/07/15	118 hrs 16 mins	Normal
		19:21	17:37		
LT-201806-001-2	-70°C	2016/07/15	2016/07/21	143 hrs 02 mins	Normal
		17:47	16:49		

**Test Photos**: Please refer to pages 4-7.

Hsin-Hung Chen / Director Signed for and on behalf of

**Institute of Undersea Technology College** 



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: LED LIGHTING FOR USE IN HAZARDOUS AND HARSH

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## Sanyo MDF-U32V Ultra-Low Temperature Freezer:





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**Sample Description** 

: LED LIGHTING FOR USE IN HAZARDOUS AND HARSH

LOCATION (MODEL L1102 – 100W)

#### Test Photos (Video screenshot):

Test No.

: LT-201806-001-1

Testing phase

: Place the LED Lighting into the freezer.

**Testing Date** 

: 2016/07/10

Testing procedure: 1. Power on the LED Lighting to make sure it is in normal operation.

Then, power off the LED Lighting.

2. Put the LED Lighting into the carton.

3. Place the carton with the LED Lighting into the freezer.

4. Record the date and time right after the LED Lighting is placed into the freezer.





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**Sample Description** 

: LED LIGHTING FOR USE IN HAZARDOUS AND HARSH

LOCATION (MODEL L1102 – 100W)

### Test Photos (Video screenshot):

Test No.

: LT-201806-001-1

Testing phase

: Take out the LED Lighting from the freezer.

**Testing Date** 

: 2016/07/15

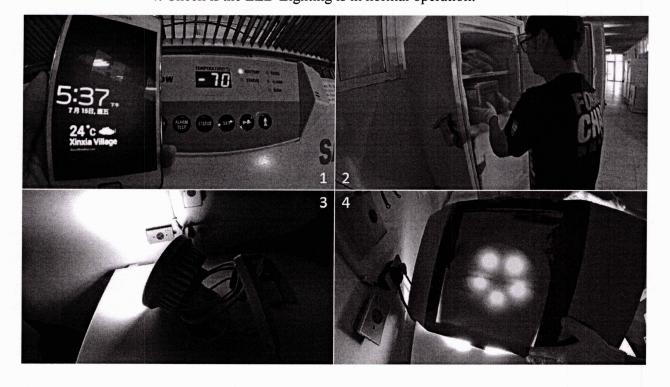
Testing procedure: 1. Record the date and time right before the LED Lighting is taken out from the

freezer.

2. Take out the LED Lighting.

3. Power on the LED Lighting.

4. Check if the LED Lighting is in normal operation.





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: LED LIGHTING FOR USE IN HAZARDOUS AND HARSH **Sample Description** 

LOCATION (MODEL L1102 – 100W)

## Test Photos (Video screenshot):

Test No.

: LT-201806-001-2

Testing phase

: Place the LED Lighting into the freezer.

**Testing Date** 

: 2016/07/15

Testing procedure: 1. Power on the LED Lighting to make sure it is in normal operation.

Then, power off the LED Lighting.

2. Put the LED Lighting into the carton.

3. Place the carton with the LED Lighting into the freezer.

4. Record the date and time right after the LED Lighting is placed into the





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**Sample Description** 

: LED LIGHTING FOR USE IN HAZARDOUS AND HARSH

LOCATION (MODEL L1102 – 100W)

#### Test Photos (Video screenshot):

Test No.

: LT-201806-001-2

Testing phase

: Take out the LED Lighting from the freezer.

**Testing Date** 

: 2016/07/21

Testing procedure: 1. Record the date and time right before the LED Lighting is taken out from the

freezer.

2. Take out the LED Lighting.

3. Power on the LED Lighting.

4. Check if the LED Lighting is in normal operation.





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**Sample Description** 

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LOCATION (MODEL L1102 – 100W)

#### Test Photos (Video screenshot):

Test No.

: LT-201806-001-2

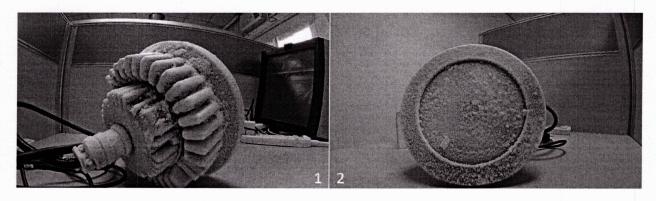
Testing phase

: Record the physical appearance of the LED Lighting after it is taken out from

the freezer.

**Testing Date** 

: 2016/07/21



-- End of Report --