



Master contract : N/A  
Report :PMX3060\_20210121

# Quality Test Report

## Vision X Asia Lighting

**- Tested Article:**

DURA-460

**- Test Clause & Standard:**

Low temperature test

**- Test Equipment:**

EQUIPMENT LIST	Model No.	Control Number	Calibrated	Calibration Due
DC power supply	EX 100-48	R&D-041	22/01/2021	21/01/2021
Thermal Shock Chamber	KR-1005C	R&D-042	22/01/2021	21/01/2021

**- Test report issued at:**

22/01/2021

**- Test report approved at:**

22/01/2021

**- Test Performed by:**

Sung woo Kim (QC / Manager)

**- Test Reviewed by:**

Sang min Jeong (R&D Team / General Manager)

**- Test Approved by:**

Byung hwan Jung (Managing Director)

**- Test Result:**

Pass



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## QUALITY TEST REPORT

### 1. Test Name

Low temperature test

### 2. Test Standard

As described

### 3. Test Date

From 20/01/2021 to 22/01/2021

#### TESTED BY

Sung woo Kim

**RESULT**

**PASS**

#### TEST METHOD

1. Power the item @ 13.2V using DC power supplier to confirm the item is normal condition, lighten up.
2. Place the item inside the thermal Chamber.
3. Set the thermal Chamber to minus 60 degrees Celsius.
4. Leave the item at minus 60 degrees Celsius for an hour and check whether the item lights up as a pre-test.
5. Start the main test, leave the item for 24 hours at minus 60 degrees Celsius.
6. Check the operation of the item.

#### CRITERION

Check normal operation of equipment at minus 60 degree Celsius.

#### TEST RESULT

PASS



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## Test Method

### 1. Preparation of the test.



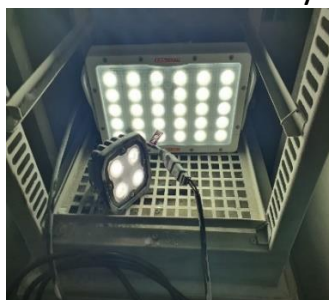
### 2. Set DC power supply 13.2V, and check every equipment is working & set well. Test is set to start.



### 3. Leave the item at minus 60 degrees Celsius for an hour and check whether the item lights up as a pre-test. Start the main test, leave the item for 24 hours at minus 60 degrees Celsius.



### 4. Turn on the item and see if it still works without any abnormality.





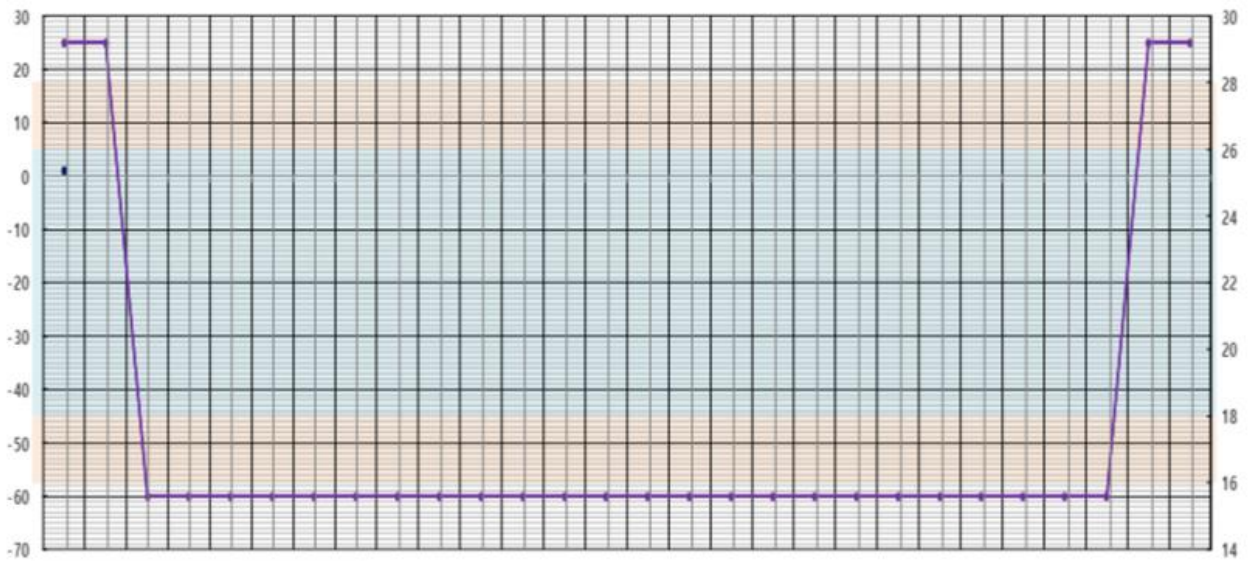
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# Test Method

## - Temperature Profile

DURA 460\_Temperature Profile

Temperature (°C)



AM/PM	RT(°C)		11	12	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	RT(°C)	Time	
°C	25.0	25.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	-60.0	25.0	25.0	°C