

## TEST REPORT

### 1. Applicant

Name : VISION X ASIA CO., LTD.  
Address : 175-16, Chungchun-Dong, Bupyung-Ku,  
Incheon-Shi, Korea

### 2. Products

Name : LED Lighting  
Model/Type : LED BACK LIGHT  
Manufacturer : VISION X ASIA CO., LTD.  
Remark : -

3. Test Standard/Method : IEC 60529:2001, KS C IEC 60529:2002


4. Test Results : IP68 (Refer to document)

5. Use of Report : For Quality Control.

6. Date of Application : 2010. 07. 14

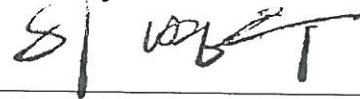
7. Date of Issue : 2010. 07. 21

Tested by



Machinery Components Center  
Chang-ho Kim

Approved by



Machinery Components Center  
Leader Byung-woo Lee

*The above test report is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.*

# Korea Testing Laboratory

# TEST RESULTS

for Degree of protection provided by enclosures(IP Code)

## 1. Test Results

Code letters	IP	Test method and Record	Results
<p><b>1st</b> Characteristic numerals</p> <p>Against ingress of solid foreign objects</p>	<b>6</b>	<p>1. CONDITIONS</p> <p>1.1 Talcum powder(mesh) : Wire diameter=50 <math>\mu\text{m}</math>, width between wires=75 <math>\mu\text{m}</math></p> <p>1.2 Amount of talcum powder of the test chamber : 2kg/m<sup>3</sup></p> <p>2. TEST</p> <p>2.1 Volume of the enclosures : about 20 cm<sup>3</sup></p> <p>2.2 Reduction air pressure : -2.0 kPa (-200 mmH<sub>2</sub>O)</p> <p>2.3 Flow rate : 0.0 LPM</p> <p>2.4 Extraction rate per hour : 0 volumes/h</p> <p>2.5 Test duration : 8 hours</p>	<b>Pass</b>
<p><b>2nd</b> Characteristic numerals</p> <p>Against ingress of water with harmful effects</p>	<b>8</b>	<p>1. CONDITIONS</p> <p>1.1 The lowest point of enclosure : 1,200 mm</p> <p>1.2 The highest point of enclosure : 1,177 mm</p> <p>1.3 Differential temperature of water and enclosure (less than 5K) : about 2.0 K</p> <p>2. TEST</p> <p>2.1 The duration of the test is : 3 hour</p>	<b>Pass</b>

## 2. Reference Data

- (1) Test conditions : 22.7 °C, 56 %RH, 86~106 kPa
- (2) Size : W89.5 mm×D23 mm×H48.5 mm
- (3) Rating : DC 12 V/ 24 V
- (4) Sealed the connected part with