

Test Item :
IK08 test

Test Method:

1. Unless otherwise specified in the relevant product standard, the test shall be carried out under the standard atmospheric conditions for tests described in IEC 60068-1:
 - temperature range: 15°C to 35 °C.
 - air pressure: 86 Kpa to 106 Kpa (860 mbar to 1060 mbar)
2. Each enclosure under test shall be in a clean and new condition, complete with all its parts in place unless otherwise specified in the relevant product standard.
3. In order to verify the protection against mechanical impacts, blows shall be applied to the enclosure to be tested. The test shall be done by using one of the test apparatus described in IEC 60068-2-75. The device to be used for this test is pendulum hammer.
4. During the test the enclosure shall be mounted on a rigid support, according to the manufacturer's instructions for use.
5. The number of impacts shall be five on each exposed face unless otherwise specified in the relevant product standard. The impacts shall be evenly distributed on the faces of the enclosure(s) under test. In no case shall more than three impacts be applied in the surroundings of the same point of the enclosure. The relevant product standard shall specify the points of application of impacts.
6. The impact energy is 5 J.

Verification procedure

1. Visually check the product and notice any "outside visible modifications". (examples: plastic broken, plastic deformation, rubber shifting, display broken, display shifting, key touch shifting...)
2. Functionally check the product and notice any "malfunctions". (Malfunctions can be functions don't working anymore or product security activation or also difficulty to swipe or insert the smart card)
 - Powered the product
 - Check security activation
 - Check each functions with final control application
3. Disassemble the product and check "inside visible modifications". (examples: plastic broken, PCB components unsoldered, FPC deformation...)

Acceptance Conditions:

1. After completion of the tests, there was no broken for the sample.
2. The mechanical structure, function, performance of the sample complied with the requirements.
3. IK08 test is passed if no "outside visible modifications" or "malfunctions" occurred at the end of test on the two samples. If no "outside visible modifications" and no "malfunction" are noticed, "inside visible modifications" are admissible damages.

Test Result:

☒ Pass ☐ Fail

Test Item :
High temperature test

Test Method:

Operating at 25 ° C for 24 hours, Samples should not be damaged after the test.

Test Result:

☒ Pass ☐ Fail

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Photo Documentation:

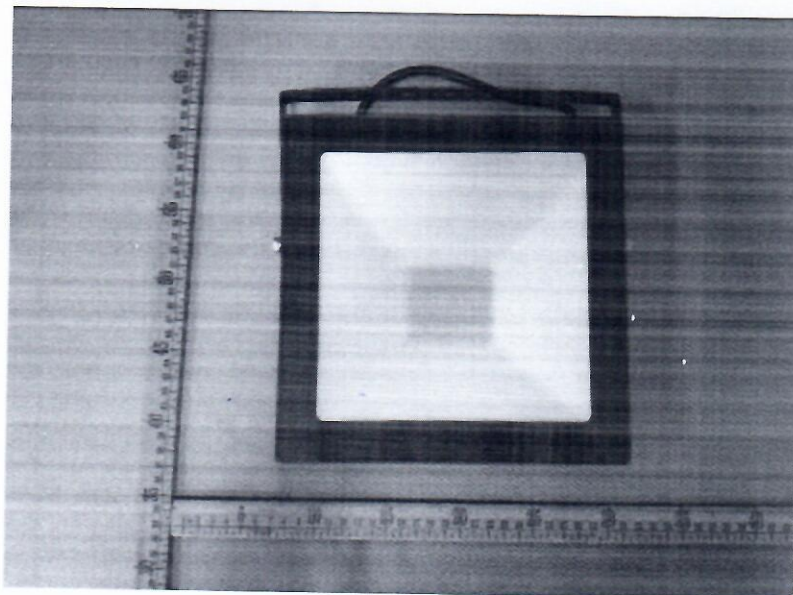


Photo 1 -- Model: Projector SMD 2835

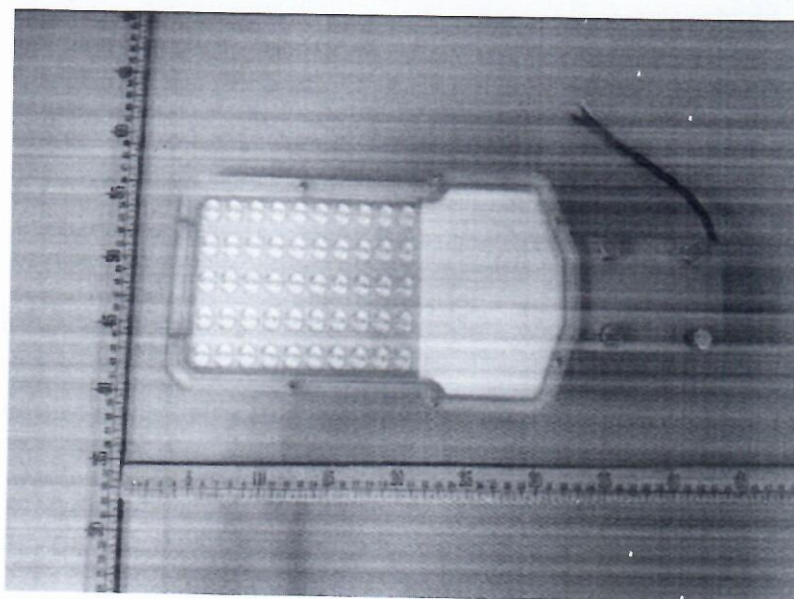


Photo 2 -- Model: Ultra 2





Photo 3 -- During the test of IP6X

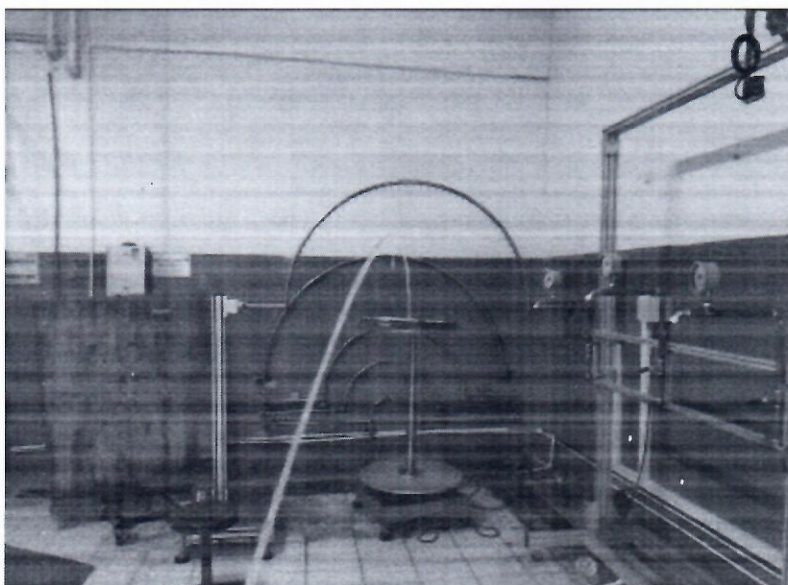


Photo 4 -- During the test of IPX5



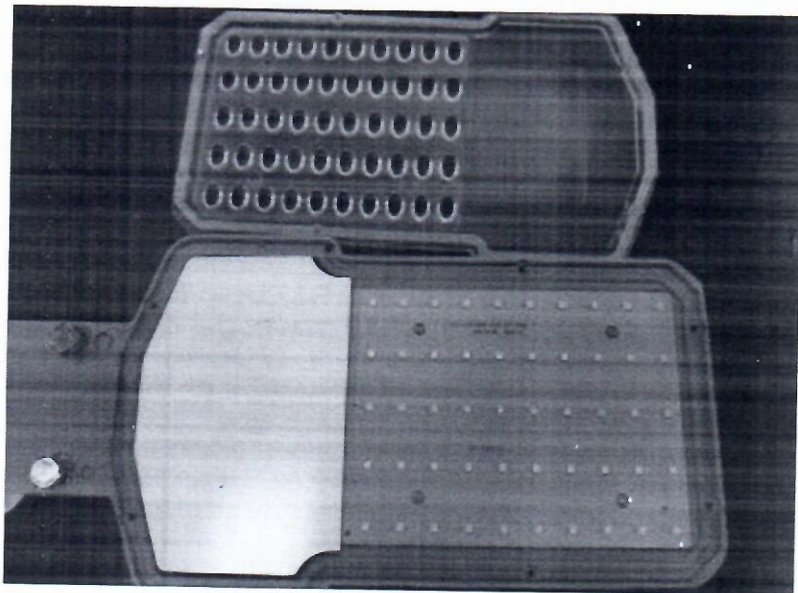


Photo 5 -- After the test of IP65

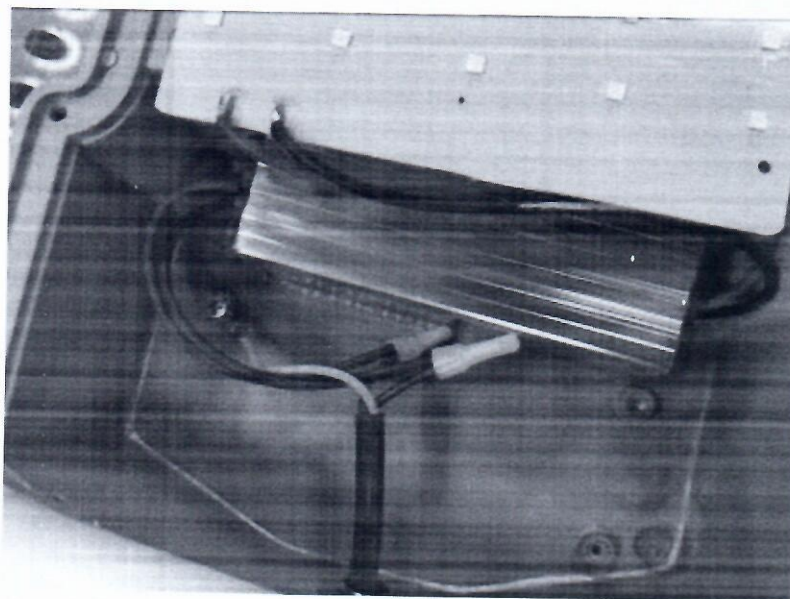


Photo 6 -- After the test of IP65



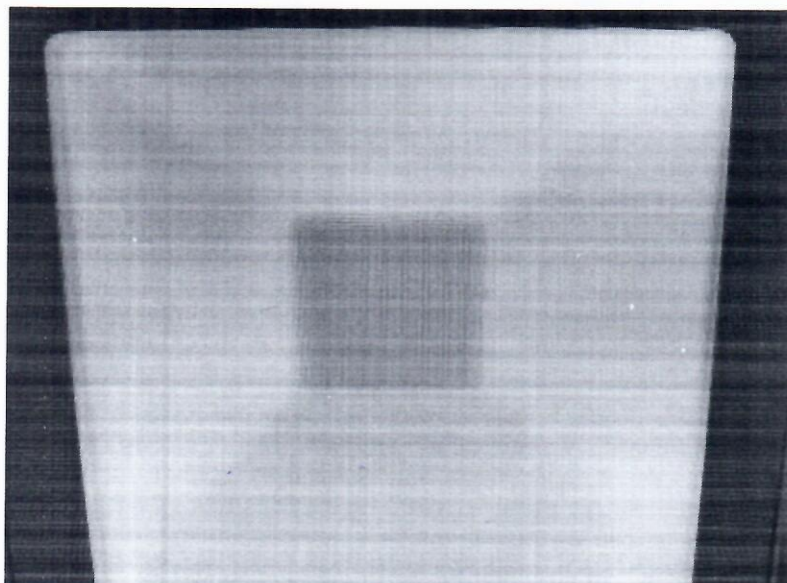


Photo 7 -- After the test of IP65

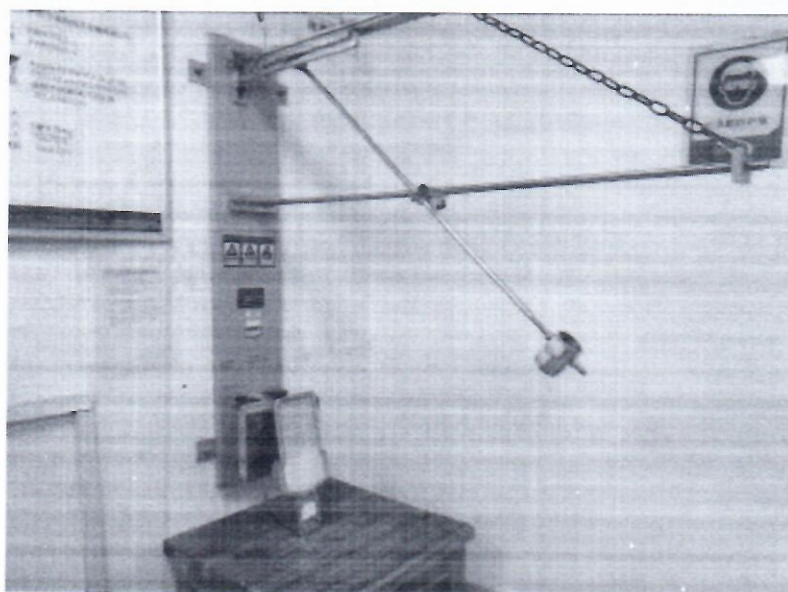


Photo 8 -- During the test of IK08



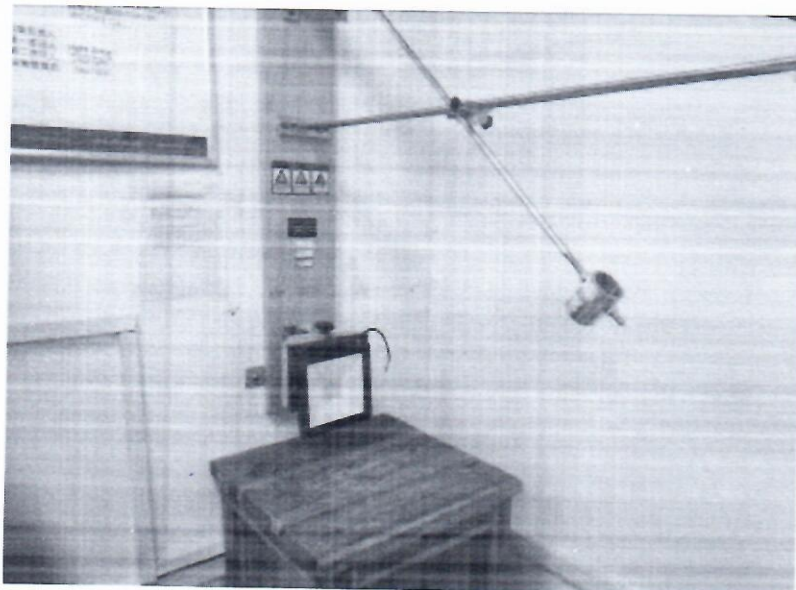


Photo 9 -- During the test of IK08

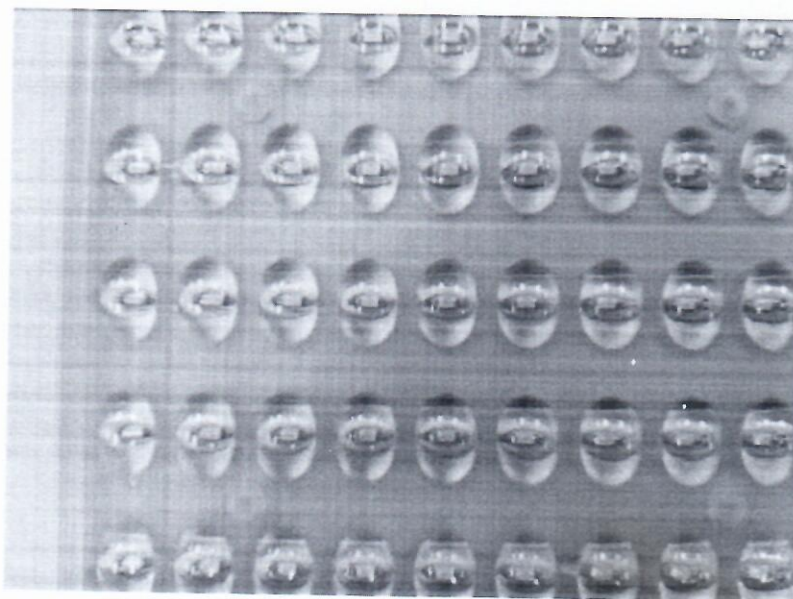


Photo 10 -- After the test of IK08



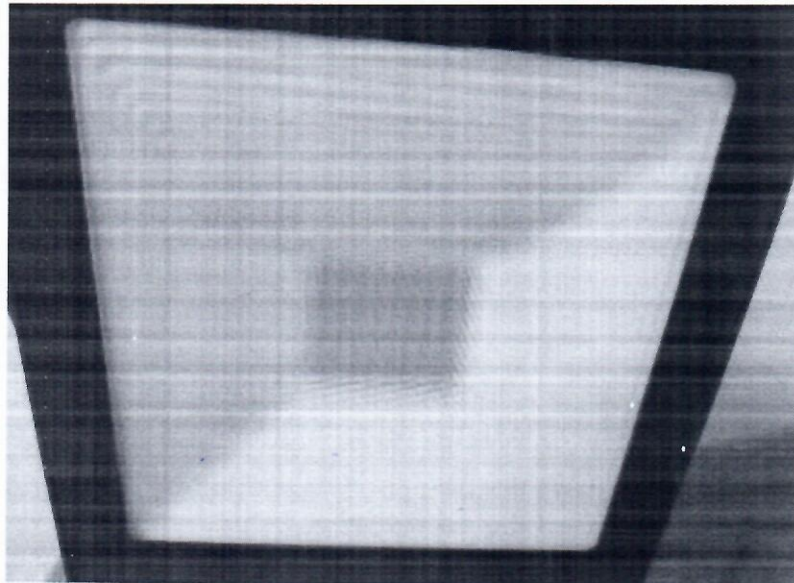


Photo 11 -- After the test of IK08

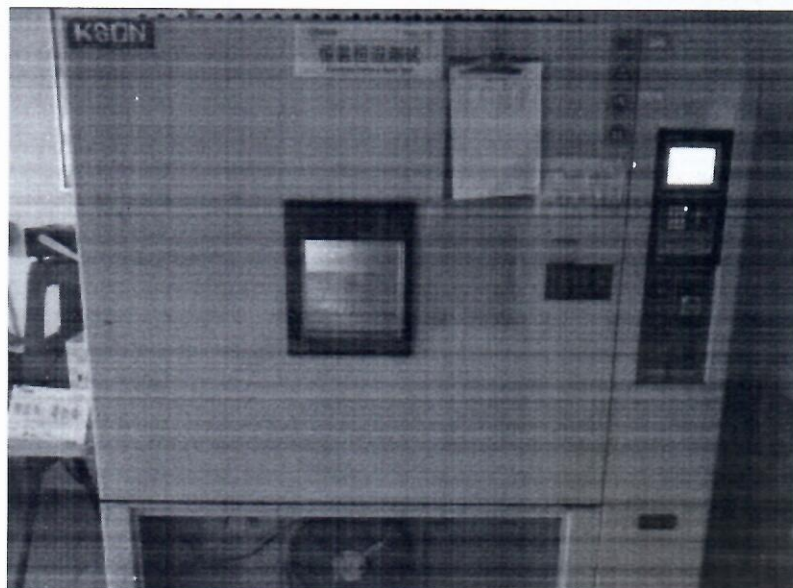


Photo 12 -- During the test of High temperature test



Equipment Used during Test :

| Equipment | Model/Type |
|--|-------------------|
| Temperature & Humidity Datalogger | THG312 |
| Dustproof chamber | HY-FCX |
| Power Meter | QINZHI 8775A |
| Dielectric & Insulation Resistance Tester | CHROMA 9012 |
| Probe | HANYANG FZ-1107-A |
| Force Gauge | ALGOL NK-300 |
| Protection against water test device | HAIYU HY-IPX1-6 |
| The temperature and humidity of atmospheric pressure gauge | Testo 622 |
| Swing Hammer Impact-Test Apparatus | HANYANG FZ-7812 |
| Tape Measure | Assist 3m |
| Environmental Chamber | KSON THS-D4C-100 |

===== End of Report =====

