



**Reliability test report**

**LT P/N LT3006WH-A-Q**

# SHEN ZHEN SHI L.T PHOTOELECTRICITY TECHNOLOGY CO., LTD

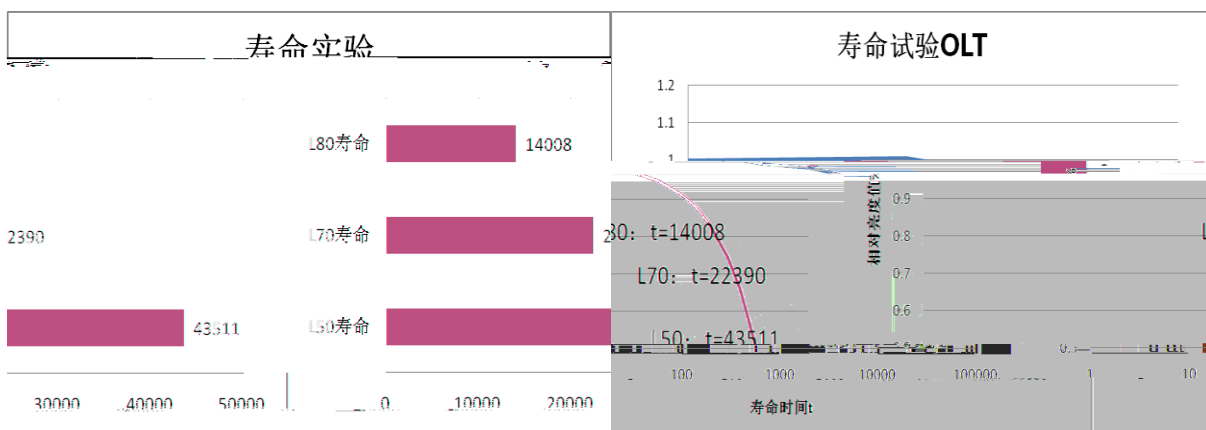
1000H

Iv

| Test Item | Iv<br>Test time and brightness relation rate. |          |         |         |         | Fail No. | Conclusion | Remark                                     |
|-----------|---|----------|---------|---------|---------|----------|------------|--|
|           | 0hr   | 168hrs   | 336hrs  | 500hrs  | 1000hrs |          |            |  |
| (OLT)     | 100.000%                                      | 101.007% | 99.413% | 99.052% | 98.407% | 0        | Pass       | (Test Condition) :<br>IF =20mA;<br>1000Hrs |

| Data Set ----25 20mA            |              |
|---------------------------------|--------------|
| Part Number:                    | LT3006WH-A-Q |
| Number of Units:                | 20pcs        |
| Actual Case Temperature(TS):    | TS=25.9      |
| Actual Ambient Temperature(TA): | TA=25.2      |
| Life Test Drive Current         | IF=20mA      |

|              | L50   | L70   | L80   |
|--------------|-------|-------|-------|
| LT3006WH-A-Q | 43511 | 22390 | 14008 |



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# SHEN ZHEN SHI L.T PHOTOELECTRICITY TECHNOLOGY CO., LTD

LED 50% LED LED1000  
MTBF .

$$R(\%)=[e^{-}]$$

LED  
1000  
2.7183

50%/70%/80%

$$R(\%)=[e^{-}]$$

$$=[2.7183^{-(0.0159/1000hrs) t}]$$

=50%/70%/80%

, 50% LED  
t = -  
= -[ (ln50%)/(0.0159/1000hrs) ]  
=43511hrs

, 70% LED  
t = -[ (ln7  
= -[ (ln70%)/(0.0159/1000hrs) ]  
=22390hrs

, 80% LED  
t = -[ (ln8  
= -[ (ln80%)/(0.0159/1000hrs) ]  
=14008hrs