



Reliability test report

LT P/N LT3006WH-A-Q

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

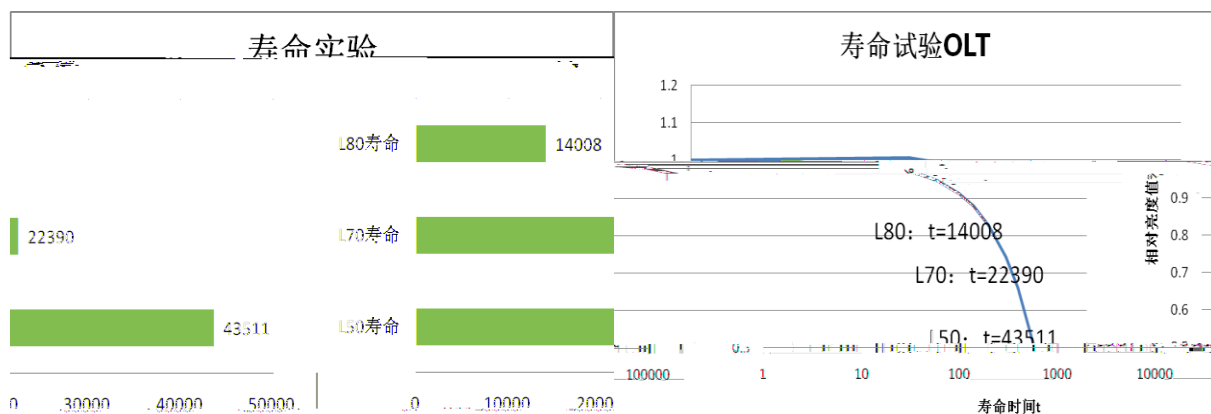
1000H

lv

| Test Item | lv 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) : IF =20mA; 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 |



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

LED 50% LED MTBF . LED1000

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

LED 1000
2.7183

50%/70%/80%

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

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

$$=50\%/70\%/80\%$$

,

$$50\% \text{ LED}$$

$$t = -$$

$$= -[(\ln 50\%)/(0.0159/1000hrs)]$$

$$=43511hrs$$

,

$$70\% \text{ LED}$$

$$t = -[(\ln 7$$

$$= -[(\ln 70\%)/(0.0159/1000hrs)]$$

$$=22390hrs$$

,

$$80\% \text{ LED}$$

$$t = -[(\ln 8$$

$$= -[(\ln 80\%)/(0.0159/1000hrs)]$$

$$=14008hrs$$