



Reliability test report

LT P/N LT3004WH-A-GL

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

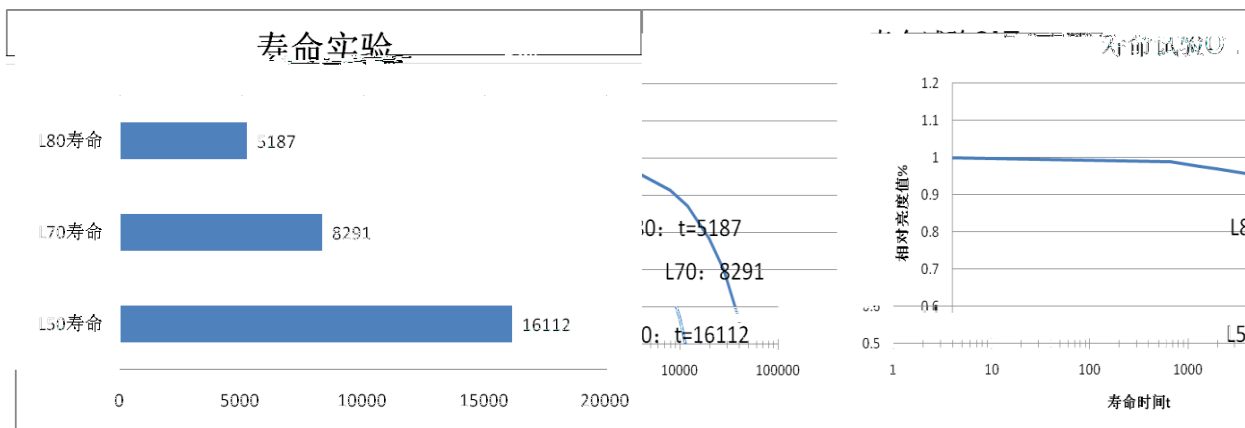
1000H

Iv

| Test Item | Iv Test time and brightness relation rate. | | | | | Fail No. | Conclusion | Remark |
|-----------|---|---------|---------|---------|---------|----------|------------|--|
| | 0hr | 168hrs | 336hrs | 500hrs | 1000hrs | | | |
| (OLT) | 100.000% | 98.881% | 97.545% | 97.031% | 95.698% | 0 | Pass | (Test Condition) : IF =20mA; 1000Hrs |

| Data Set ----25 20mA | |
|---------------------------------|---------------|
| Part Number: | LT3004WH-A-GL |
| Number of Units: | 20pcs |
| Actual Case Temperature(TS): | TS=26.3 |
| Actual Ambient Temperature(TA): | TA=25.2 |
| Life Test Drive Current | IF=20mA |

| | L50 | L70 | L80 |
|---------------|-------|------|------|
| LT3004WH-A-GL | 16112 | 8291 | 5187 |



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LED 50% LED LED1000
MTBF .

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

”R“
“t” LED
“λ”, 1000
“e” 2.7183

50%/70%/80%

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

$$=[2.7183^{-(0.0430/1000\text{hrs}) t}]$$

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

50% LED

$$t = -[(\ln 50\%) / \lambda]$$

$$= -[(\ln 50\%) / (0.0430 / 1000\text{hrs})]$$

$$= 16112\text{hrs}$$

70% LED

$$t = -[(\ln 70\%) / \lambda]$$

$$= -[(\ln 70\%) / (0.0430 / 1000\text{hrs})]$$

$$= 8291\text{hrs}$$

80% LED

$$t = -[(\ln 80\%) / \lambda]$$

$$= -[(\ln 80\%) / (0.0430 / 1000\text{hrs})]$$

$$= 5187\text{hrs}$$