



Reliability test report

LT P/N LT2204WH-A-Q

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

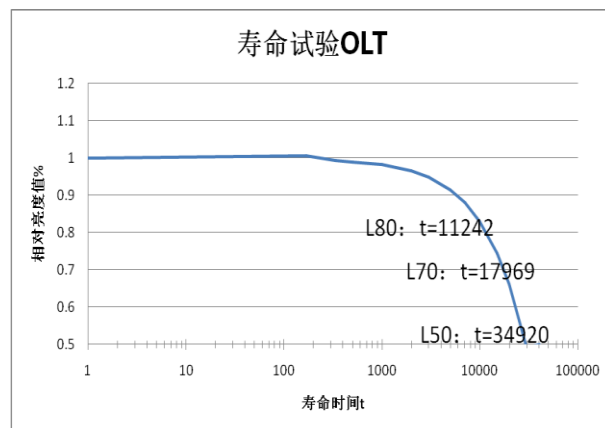
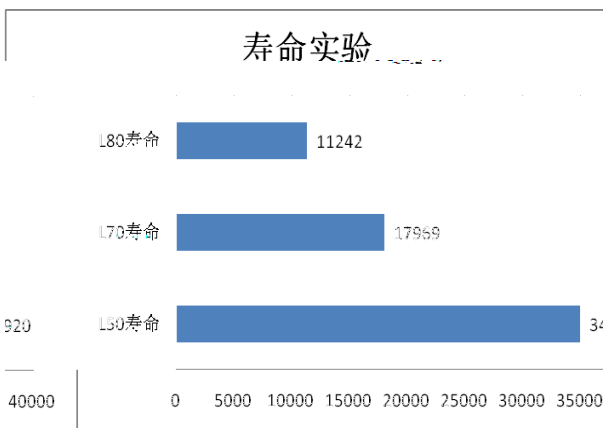
1000H

Iv

| Test Item | Iv Test time and brightness relation rate. | | | | | Fail No. | Conclusion | Remark |
|-----------|---|----------|---------|---------|---------|----------|------------|--|
| | 0hr | 168hrs | 336hrs | 500hrs | 1000hrs | | | |
| (OLT) | 100.000% | 100.783% | 99.156% | 99.179% | 98.015% | 0 | Pass | (Test Condition) : IF =20mA; 1000Hrs |

| Data Set ----25 20mA | |
|---------------------------------|--------------|
| Part Number: | LT2204WH-A-Q |
| 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 |
|--------------|-------|-------|-------|
| LT2204WH-A-Q | 34920 | 17969 | 11242 |



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LED 50% LED MTBF LED1000

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

LED
1000
2.7183

50%/70%/80%

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

$$= [2.7183^{-(0.0198/1000\text{hrs}) t}]$$

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

,

50% LED

$$t = -$$

$$= -[\ln(50\%)/(0.0198/1000\text{hrs})]$$

$$= 34920\text{hrs}$$

,

70% LED

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

$$= -[\ln(70\%)/(0.0198/1000\text{hrs})]$$

$$= 17969\text{hrs}$$

,

80% LED

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

$$= -[\ln(80\%)/(0.0198/1000\text{hrs})]$$

$$= 11242\text{hrs}$$