



Reliability test report

LT P/N LT216WH-A-Q

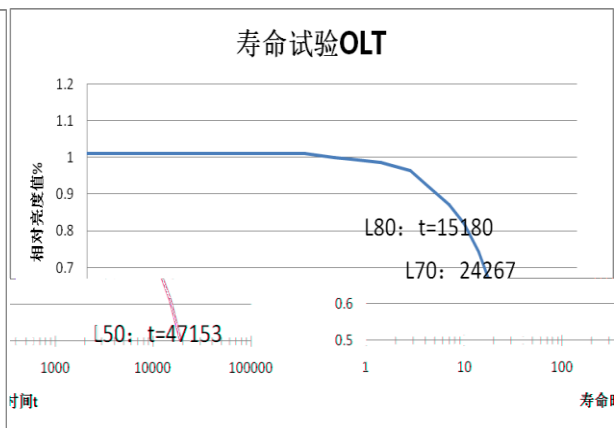
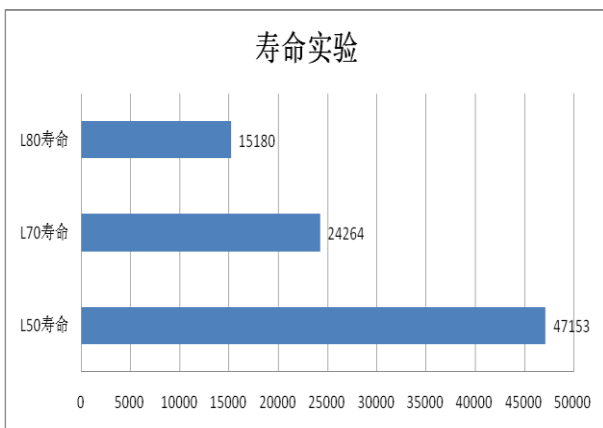
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1000H Iv

| Test Item | Iv Test time and brightness relation rate. | | | | | Fail No. | Conclusion | Remark |
|-----------|---|---------|--------|--------|---------|----------|------------|--|
| | 0hr | 168hrs | 336hrs | 500hrs | 1000hrs | | | |
| (OLT) | 100.000% | 101.11% | 99.88% | 99.49% | 98.53% | 0 | Pass | (Test Condition) : IF =20mA; 1000Hrs |

| Data Set ----25 20mA | |
|---------------------------------|-------------|
| Part Number: | LT216WH-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 |
|-------------|-------|-------|-------|
| LT216WH-A-Q | 47153 | 24267 | 15180 |



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LED 50% LED LED1000
MTBF .

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

LED 1000
2.7183
50%/70%/80%

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

$$= [2.7183^{-(0.0147/1000\text{hrs}) t}]$$

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

,

50% LED
 $t = -$
 $= - [(\ln 50\%) / (0.0147/1000\text{hrs})]$
 $= 47153\text{hrs}$

,

70% LED
 $t = - [(\ln 7$
 $= - [(\ln 70\%) / (0.0147/1000\text{hrs})]$
 $= 24267\text{hrs}$

,

80% LED
 $t = - [(\ln 8$
 $= - [(\ln 80\%) / (0.0147/1000\text{hrs})]$
 $= 15180\text{hrs}$