



Reliability test report

LT P/N LT3004WH-A-Q

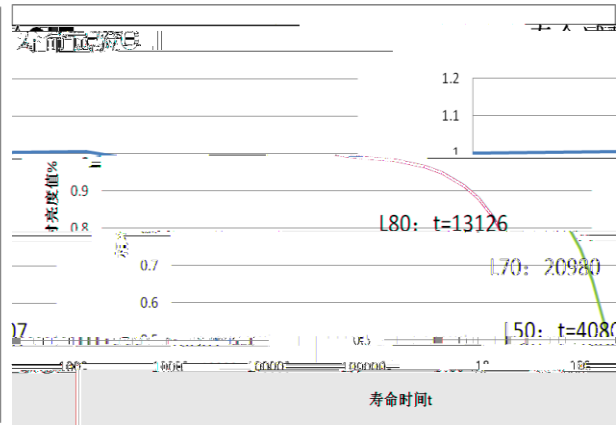
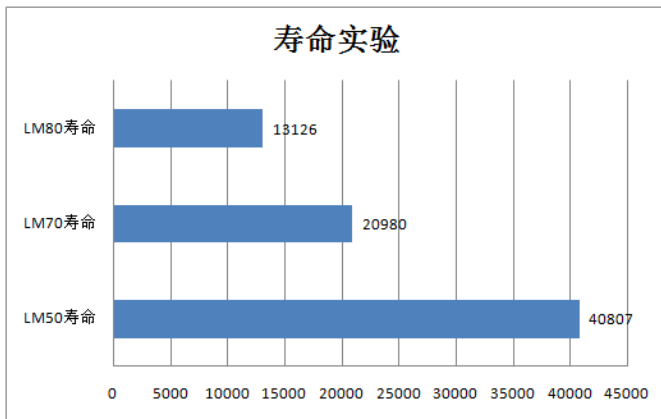
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1000H lv

| Test Item | lv Test time and brightness relation rate. | | | | | Fail No. | Conclusion | Remark |
|-----------|---|--------|--------|--------|---------|----------|------------|--|
| | 0hr | 168hrs | 336hrs | 500hrs | 1000hrs | | | |
| (OLT) | 1 | 1.0062 | 0.9931 | 0.9882 | 0.9830 | 0 | Pass | (Test Condition) : IF =20mA; 1000Hrs |

| Data Set ----25 20mA | |
|---------------------------------|--------------|
| Part Number: | LT3004WH-A-Q |
| Number of Units: | 20pcs |
| Actual Case Temperature(TS): | TS=26.1 |
| Actual Ambient Temperature(TA): | TA=25.4 |
| Life Test Drive Current | IF=20mA |

| | L50 | L70 | L80 |
|--------------|-------|-------|-------|
| LT3004WH-A-Q | 40807 | 20980 | 13126 |



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LED 50% LED LED1000
MTBF .

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

LED 1000
2.7183
50%/70%/80%

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

$$=[2.7183^{-(0.070/1000hrs)} t]$$

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

50% LED
t = -
= -[(ln50%)/(0.0170/1000hrs)]
=40807hrs

70% LED
t = -[(ln70%)/
= -[(ln70%)/(0.0170/1000hrs)]
=20980hrs

80% LED
t = -[(ln8
= -[(ln80%)/(0.0170/1000hrs)]
=13126hrs