



Reliability test report

LT P/N LT2204WH-A-Q

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

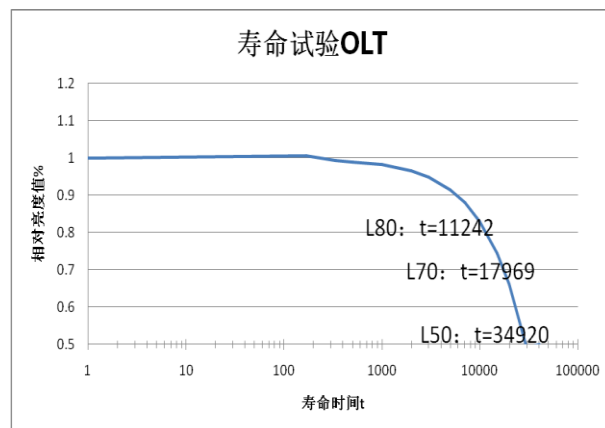
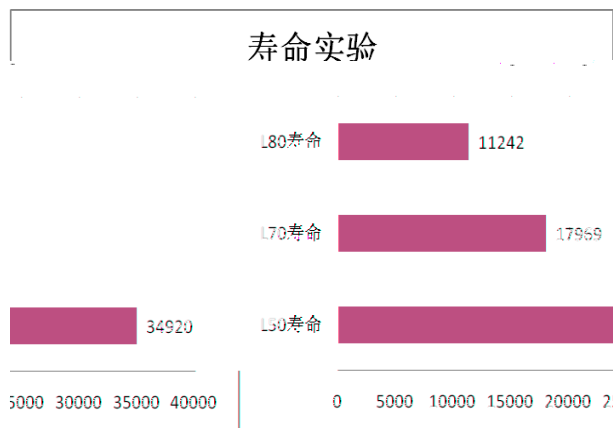
1000H

lv

Test Item	lv Test time and brightness relation rate.					Fail No.	Conclusion	Remark
	0hr	168hrs	336hrs	500hrs	1000hrs			
(OLT)	100.000%	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
2.7183

1000

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

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

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

$$= 17969\text{hrs}$$

,

80% LED

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

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

$$= 11242\text{hrs}$$