



Reliability test report

LT P/N LT264WH-A-Q

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

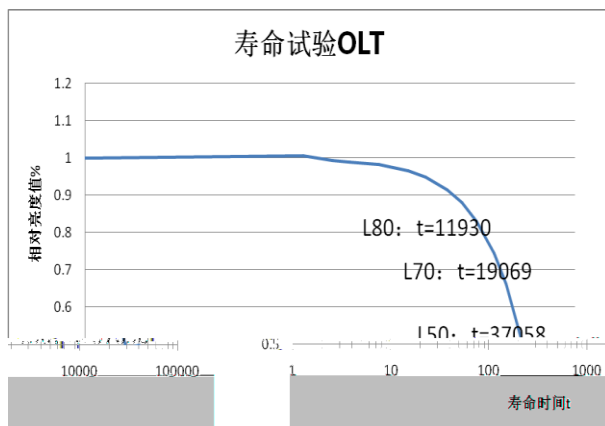
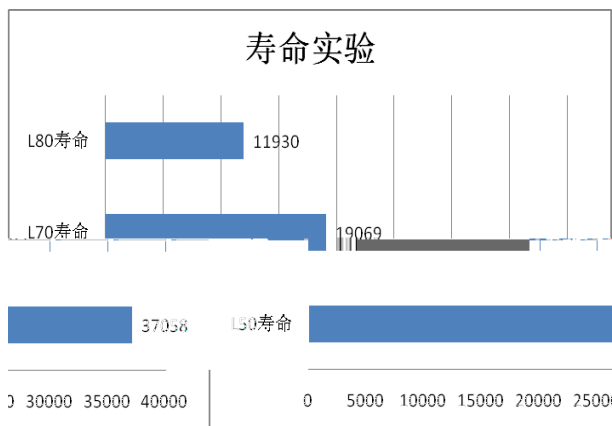
1000H

lv

Test Item	lv Test time and brightness relation rate.					Fail No.	Conclusion	Remark
	0hr	168hrs	336hrs	500hrs	1000hrs			
(OLT)	100.000%	101.002%	99.972%	99.424%	98.130%	0	Pass	(Test Condition) : IF =20mA; 1000Hrs

Data Set ----25 20mA	
Part Number:	LT264WH-A-Q
Number of Units:	20pcs
Actual Case Temperature(TS):	TS=26.2
Actual Ambient Temperature(TA):	TA=25.1
Life Test Drive Current	IF=20mA

	L50	L70	L80
LT264WH-A-Q	37058	19069	11930



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LED 50% LED MTBF LED1000

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

LED
1000
2.7183

50%/70%/80%

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

$$= [2.7183^{-(0.0187/1000\text{hrs}) t}]$$

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

,

50% LED

$$t = - \frac{\ln(50\%)}{0.0187/1000\text{hrs}}$$

$$= 37058\text{hrs}$$

,

70% LED

$$t = - \frac{\ln(70\%)}{0.0187/1000\text{hrs}}$$

$$= 19069\text{hrs}$$

,

80% LED

$$t = - \frac{\ln(80\%)}{0.0187/1000\text{hrs}}$$

$$= 11930\text{hrs}$$