



Reliability test report

LT P/N LT216WH-A-Q

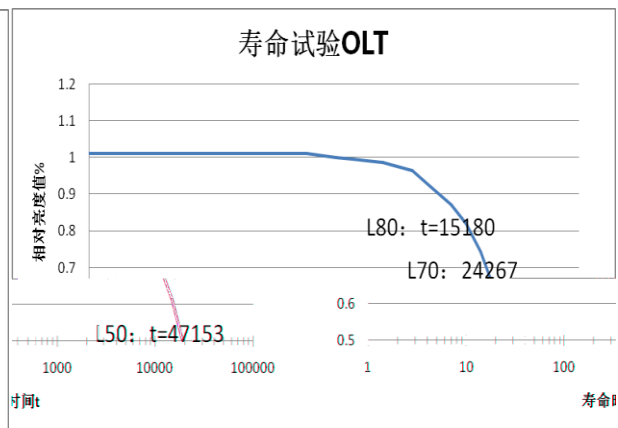
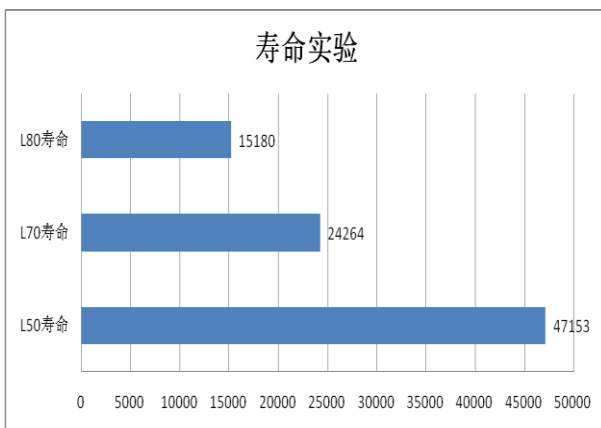
SHEN ZHEN SHI L.T PHOTOELECTRICITY TECHNOLOGY CO., LTD

1000H Iv

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



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

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