



**Reliability test report**

**LT P/N LT3004WH-A-Q**

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

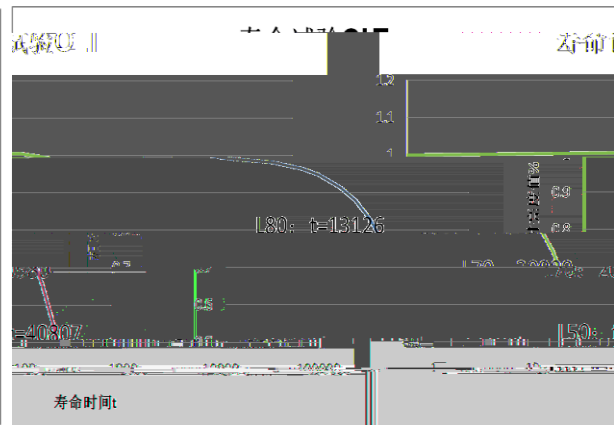
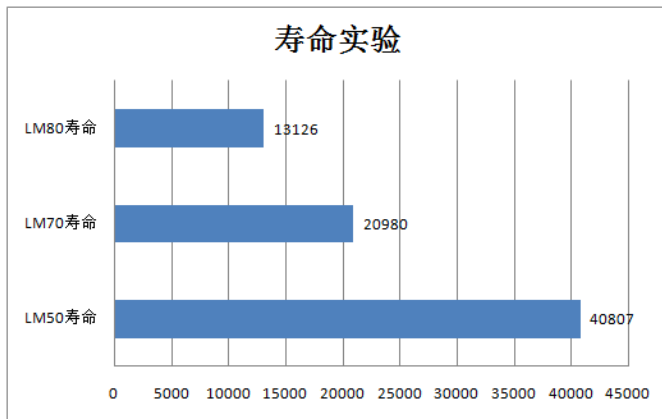
**1000H**

**Iv**

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



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

LED 50% LED LED1000  
MTBF .

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

LED 1000  
2.7183  
50%/70%/80%

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

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

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

,

50% LED  
 $t = -$   
 $= - [ (\ln 50\%) / (0.0170/1000\text{hrs}) ]$   
 $= 40807\text{hrs}$

,

70% LED  
 $t = - [ (\ln 70\%) /$   
 $= - [ (\ln 70\%) / (0.0170/1000\text{hrs}) ]$   
 $= 20980\text{hrs}$

,

80% LED  
 $t = - [ (\ln 8$   
 $= - [ (\ln 80\%) / (0.0170/1000\text{hrs}) ]$   
 $= 13126\text{hrs}$