



**Reliability test report**

**LT P/N LT3006WH-A-Q**

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

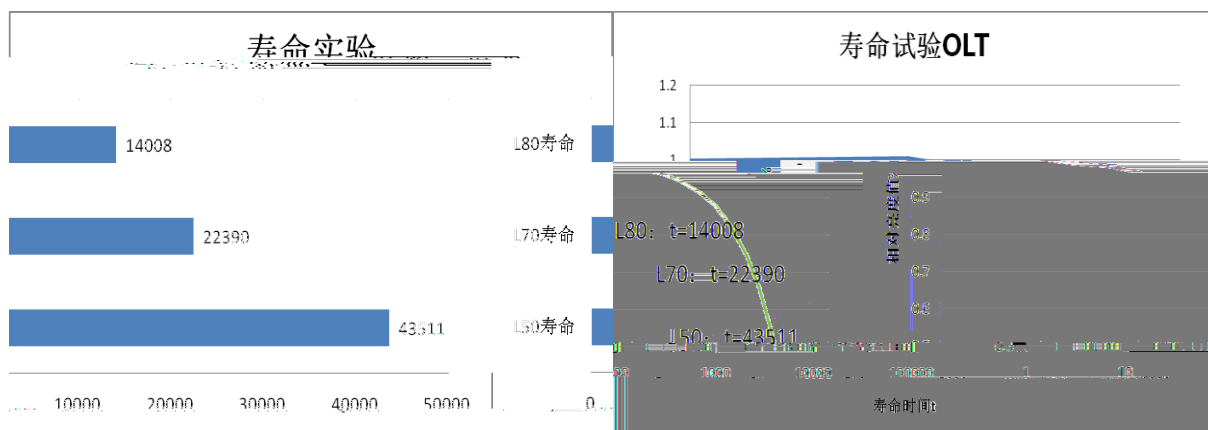
1000H

lv

Test Item	lv Test time and brightness relation rate.					Fail No.	Conclusion	Remark
	0hr	168hrs	336hrs	500hrs	1000hrs			
(OLT)	100.000%	101.007%	99.413%	99.052%	98.407%	0	Pass	(Test Condition) : IF =20mA; 1000Hrs

Data Set ----25 20mA	
Part Number:	LT3006WH-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
LT3006WH-A-Q	43511	22390	14008



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LED 50% LED LED1000  
MTBF .

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

LED 1000  
2.7183

50%/70%/80%

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

$$=[2.7183^{-(0.0159/1000hrs) t}]$$

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

,

50% LED  
 $t = -$   
 $= -[ (\ln 50\%)/(0.0159/1000hrs) ]$   
 $=43511hrs$

,

70% LED  
 $t = -[ (\ln 7$   
 $= -[ (\ln 70\%)/(0.0159/1000hrs) ]$   
 $=22390hrs$

,

80% LED  
 $t = -[ (\ln 8$   
 $= -[ (\ln 80\%)/(0.0159/1000hrs) ]$   
 $=14008hrs$