

# **Reliability test report**

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

## Iv

Test Item	Iv Test time and brightness relation rate.					Fail No.	Conclusion	Remark
	0hr	168hrs	336hrs	500hrs	1000hrs			
(OLT)	1	0.9985	0.9931	0.9902	0.9830	0	Pass	(Test Condition) : IF =20mA; 1000Hrs

Data Set ----25°C , 20mA	
Part Number:	LT3014WH-A-Q
Number of Units:	20pcs
Actual Case Temperature(TS):	TS=29.1°C
Actual Ambient Temperature(TA):	TA=25.4°C
Life Test Drive Current :	IF=20mA



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LED 50% LED LED1000  
MTBF

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

R  
t  
e , LED 1000  
2.7183

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

$$= [2.7183^{-(0.0170/1000\text{hrs}) t}]$$

$$= 50\%$$

, 50% LED

$$t = -[\ln(50\%)/\lambda]$$

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

$$= 40778\text{hrs}$$