



TM-21 Report

Item# 83396



Table 1: Report at each LM-80 Test Condition

Description of LED Light Source Tested (manufacturer, model, catalog number)		CREE,Xlamp XB-D	
Test Condition 1 - 55°C Case Temp		Test Condition 2 - 85°C Case Temp	
Sample size	24	Sample size	24
Number of failures	0	Number of failures	0
DUT drive current used in the test (mA)	700	DUT drive current used in the test (mA)	700
Test duration (hours)	6,000	Test duration (hours)	6,000
Test duration used for projection (hour to hour)	1,008 - 6,048	Test duration used for projection (hour to hour)	1,008 - 6,048
Tested case temperature (°C)	55	Tested case temperature (°C)	85
<i>a</i>	3.487E-06	<i>a</i>	6.230E-06
B	0.995	B	0.991
Calculated L70(6k) (hours)	101,000	Calculated L70(6k) (hours)	56,000
Reported L70(6k) (hours)	>36000	Reported L70(6k) (hours)	>36000

**Table 2: Interpolation Report
(projection based on *in-situ* temperature entered)**

T _{s,1} (°C)	55.00
T _{s,1} (K)	328.15
<i>a</i> ₁	3.487E-06
B ₁	0.995
T _{s,2} (°C)	-
T _{s,2} (K)	-
<i>a</i> ₂	-
B ₂	-
E _a /k _b	-
A	-
B ₀	0.995
T _{s,i} (°C)	51.60
T _{s,i} (K)	324.75
<i>a</i> _i	3.487E-06
Projected L70(6k) at 51.6°C (hours)	101,000
Reported L70(6k) at 51.6°C (hours)	>36000