



TM-21 Report

Table 1: Report at each LM-80 Test Condition					
Description of LED Light Source Tested (manufacturer, model, catalog number)		Seoul Semiconductor Co., LTD		STWxA2SD-XX	
		XX			
Test Condition 1 - 85°C Case Temp		Test Condition 2 - 105°C Case Temp			
Sample size	20	Sample size	20	Sample size	-
Number of failures	-	Number of failures	-	Number of failures	-
DUT drive current used in the test (mA)	300	DUT drive current used in the test (mA)	300	DUT drive current used in the test (mA)	-
Test duration (hours)	6,000	Test duration (hours)	6,000	Test duration (hours)	-
Test duration used for projection (hour to hour)	1,000 - 6,000	Test duration used for projection (hour to hour)	1,000 - 6,000	Test duration used for projection (hour to hour)	-
Tested case temperature (°C)	85	Tested case temperature (°C)	105	Tested case temperature (°C)	-
α	2.991E-06	α	6.415E-06	α	-
B	1.009	B	0.996	B	-
Reported L90(6k) (hours)	>36000	Reported L90(6k) (hours)	16,000	Reported L90(6k) (hours)	-

Table 2: Interpolation Report (projection based on <i>in-situ</i> temperature entered)	
$T_{s,1}$ (°C)	85.00
$T_{s,1}$ (K)	358.15
α_1	2.991E-06
B_1	1.009
$T_{s,2}$ (°C)	-
$T_{s,2}$ (K)	-
α_2	-
B_2	-
E_a/k_b	-
A	-
B_0	1.009
$T_{s,i}$ (°C)	50.00
$T_{s,i}$ (K)	323.15
α_i	2.991E-06
Reported L90(6k) at 50°C (hours)	>36000

