TM-21 Report

Table 1: Report at each LM-80 Test Condition					
Description of LED Light Source Tested (manufacturer, model, catalog number)	LED Manufacturer: Cree; LED Model No: CXB1512				
Test Condition 1 - 105ºC Case Temp		**Test Condition 2 - 85ºC Case Temp**			
Sample size	25	Sample size	25	Sample size	-
Number of failures	0	Number of failures	0	Number of failures	-
DUT drive current used in the test (mA)	1500	DUT drive current used in the test (mA)	1500	DUT drive current used in the test (mA)	-
Test duration (hours)	6,048	Test duration (hours)	6,048	Test duration (hours)	-
Test duration used for projection (hour to hour)	1,008 - 6,048	Test duration used for projection (hour to hour)	1,008 - 6,048	Test duration used for projection (hour to hour)	-
Tested case temperature (ºC)	105	Tested case temperature (ºC)	85	Tested case temperature (ºC)	-
α	2.522E-06	α	2.220E-06	α	-
B	0.990	B	0.986	B	-
Reported L70(6k) (hours)	>36000	Reported L70(6k) (hours)	>36000	Reported L70(6k) (hours)	-

Table 2: Interpolation Report (projection based on *in-situ* temperature entered)	
$T_{s,1}$ (ºC)	105.00
$T_{s,1}$ (K)	378.15
α_1	2.522E-06
B_1	0.990
$T_{s,2}$ (ºC)	-
$T_{s,2}$ (K)	-
α_2	-
B_2	-
E_a/k_b	-
A	-
B_0	0.990
$T_{s,i}$ (ºC)	55.00
$T_{s,i}$ (K)	328.15
α_i	2.522E-06
Reported L70(6k) at 55ºC (hours)	>36000

Report Generated By: Jeremy B	Notes: For EPL-SBDL-V2-50RT-24-1227
Company: Larson Electronics LLC	
Date: 7/16/2021	