



TM-21 Report

Table 1: Report at each LM-80 Test Condition

Description of LED Light Source Tested (manufacturer, model, catalog number)		Cree XT-E BSY, Rev. 4, Data Set 3, 55C, 1000mA			
Test Condition 1 - 55°C Case Temp					
Sample size	25	Sample size	-	Sample size	-
Number of failures	0	Number of failures	-	Number of failures	-
DUT drive current used in the test (mA)	1000	DUT drive current used in the test (mA)	-	DUT drive current used in the test (mA)	-
Test duration (hours)	11,088	Test duration (hours)	-	Test duration (hours)	-
Test duration used for projection (hour to hour)	5,040 - 11,088	Test duration used for projection (hour to hour)	-	Test duration used for projection (hour to hour)	-
Tested case temperature (°C)	55	Tested case temperature (°C)	-	Tested case temperature (°C)	-
α	8.032E-07	α	-	α	-
B	1.022	B	-	B	-
Reported L70(11k) (hours)	>67000	Reported L70(11k) (hours)	-	Reported L70(11k) (hours)	-

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

$T_{s,1}$ (°C)	55.00
$T_{s,1}$ (K)	328.15
α_1	8.032E-07
B_1	1.022
$T_{s,2}$ (°C)	-
$T_{s,2}$ (K)	-
α_2	-
B_2	-
E_a/k_b	-
A	-
B_0	1.022
$T_{s,i}$ (°C)	41.80
$T_{s,i}$ (K)	314.95
α_i	8.032E-07
Reported L70(11k) at 41.8°C (hours)	>67000

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