



TM-21 Report

Table 1: Report at each LM-80 Test Condition

Description of LED Light Source Tested (manufacturer, model, catalog number)		Lumileds LUXEON 5050			
Test Condition 1 - 85° C Case		Test Condition 2 - 105° C Case			
Sample size	20	Sample size	20	Sample size	-
Number of failures	0	Number of failures	0	Number of failures	-
DUT drive current used in the test (mA)	100	DUT drive current used in the test (mA)	100	DUT drive current used in the test (mA)	-
Test duration (hours)	12,000	Test duration (hours)	12,000	Test duration (hours)	-
Test duration used for projection (hour to)	6,000 - 12,000	Test duration used for projection (hour to)	6,000 - 12,000	Test duration used for projection (hour to)	-
Tested case temperature (° C)	85	Tested case temperature (° C)	105	Tested case temperature (° C)	-
α	2.865E-06	α	3.406E-06	α	-
B	1.008	B	1.006	B	-
Reported L90(12k) (hours)	40,000	Reported L90(12k) (hours)	33,000	Reported L90(12k) (hours)	-

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

$T_{s,1}$ (° C)	85.00
$T_{s,1}$ (K)	358.15
α_1	2.865E-06
B_1	1.008
$T_{s,2}$ (° C)	-
$T_{s,2}$ (K)	-
α_2	-
B_2	-
E_a/k_b	-
A	-
B_0	1.008
$T_{s,i}$ (° C)	60.20
$T_{s,i}$ (K)	333.35
α_i	2.865E-06
Reported L90(12k) at	40,000

Report Generated By:	Notes:
Company:	
Date:	