TM-21 Report

Table 1: Report at each LM-80 Test Condition					
Description of LED Light Source Tested (manufacturer, model, catalog number)	Cree XH-G, Rev. 1, 85C, 175mA				
Test Condition 1 - 85^{0}C Case Temp					
Sample size	20	Sample size	-	Sample size	-
Number of failures	0	Number of failures	-	Number of failures	-
DUT drive current used in the test (mA)	175	DUT drive current used in the test (mA)	-	DUT drive current used in the test (mA)	-
Test duration (hours)	10,080	Test duration (hours)	-	Test duration (hours)	-
Test duration used for projection (hour to hour)	5,040 - 10,080	Test duration used for projection (hour to hour)	-	Test duration used for projection (hour to hour)	-
Tested case temperature (^{0}C)	85	Tested case temperature (^{0}C)	-	Tested case temperature (^{0}C)	-
α	-3.019E-07	α	-	α	-
B	0.996	B	-	B	-
Reported L70(10k) (hours)	(1,168,000)	Reported L70(10k) (hours)	-	Reported L70(10k) (hours)	-

One or more of the tests resulted in negative L70 values. Please refer to sections 5.2.5 and 6.4 of IES TM-21-11 for instructions on how to estimate the reported lumen maintenance life (L70).

Table 2: Interpolation Report (projection based on *in-situ* temperature entered)	
$T_{s,1}$ (^{0}C)	85.00
$T_{s,1}$ (K)	358.15
α_1	-3.019E-07
B_1	0.996
$T_{s,2}$ (^{0}C)	-
$T_{s,2}$ (K)	-
α_2	-
B_2	-
E_a/k_b	-
A	-
B_0	0.996
$T_{s,i}$ (^{0}C)	78.70
$T_{s,i}$ (K)	351.85
α_i	-
Reported L70(10k) at 78.7^{0}C (hours)	(1,168,000)

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Date: 07/27/16	