

Lumen Maintenance Projection of BXEN SMD Products May 24, 2022

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Lumen Maintenance Projection of BXEN Series SMD Products

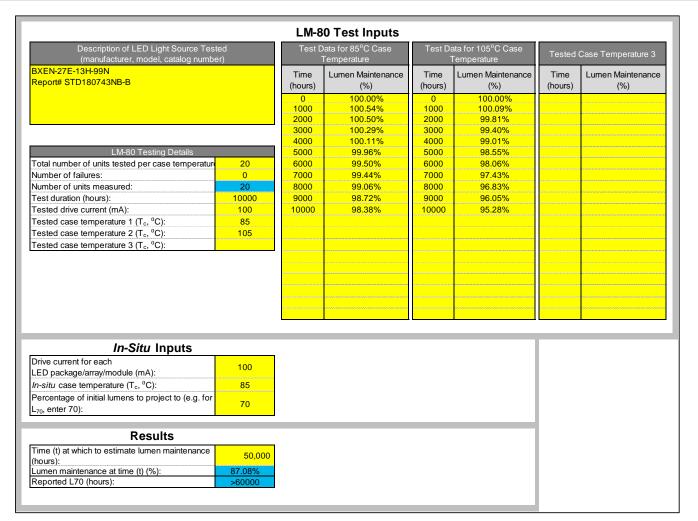
- Lumen maintenance projection of LED light sources follows the IESNA TM-21-11 Method and is in accordance with the ENERGY STAR and Design Lights Consortium requirements.
- Lumen maintenance projection of 2835 SMD is based on 10,000 hours of LM80 test data of BXEN-27E-13H-99N SMD at drive current of 100 mA and solder point temperatures (Tc) of 85 & 105 C.
- Per the table below, Bridgelux certifies that the "Tested" SMDs are equivalent to the "Equivalent" SMDs, per all LM-80, TM-21, Energy Star, and DLC criteria

Tested SMD Part Number	Equivalent SMD Part Number(s)	LM-80 Report Number	Test Hours	Drive Current	Tc	L70 Reported	L70B50 Calculated	L70B20 Calculated	L70B10 Calculated
BXEN-27E-13H-99N	BXEN-XXE-13H-9C1	STD180743NB-B	10,000	100mA	85C	>60,000 hr	121,000 hr	109,000 hr	108,000 hr

L80	L80B50	L80B20	L80B10	L90	L90B50	L90B20	L90B10
Reported	Calculated	Calculated	Calculated	Reported	Calculated	Calculated	Calculated
>60,000 hr	78,000 hr	70,000 hr	69,000 hr	39,000 hr	39,000 hr	36,000 hr	35,000 hr



Lumen Maintenance Projection Worksheet: L70

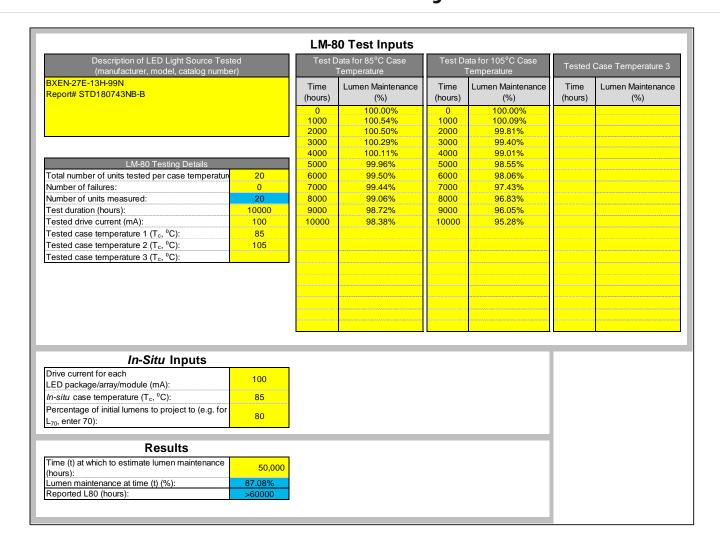




Case Temperature 1			Case Temperature 2		
Temperature (°C):	85		Temperature (°C):	105	
Temperature (°K):	358.15		Temperature (°K):	378.15	
α:	3.06E-06		α:	6.77E-06	
B:	1.01		B:	1.02	
Calculated L70 (hrs):	121000		Calculated L70 (hrs):	56000	
Reported L70 (hrs):	>60000		Reported L70 (hrs):	56000	



Lumen Maintenance Projection Worksheet: L80

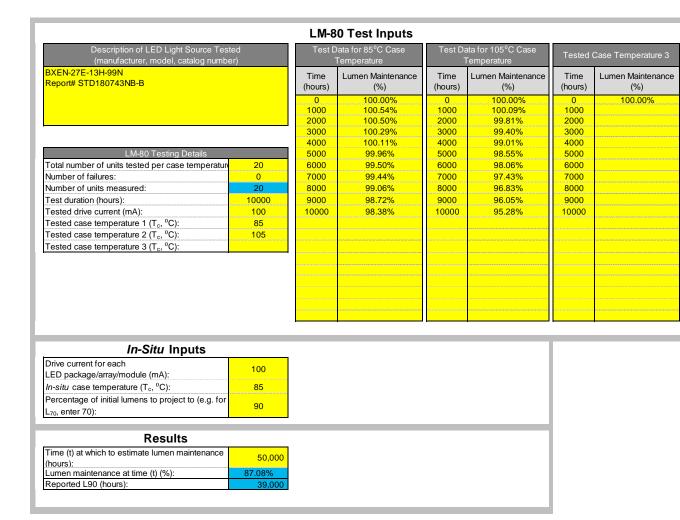




Case Temperature 1			Case Temperature 2		
Temperature (°C):	85		Temperature (°C):	105	
Temperature (°K):	358.15		Temperature (°K):	378.15	
α:	3.06E-06		α:	6.77E-06	
B:	1.01		B:	1.02	
Calculated L80 (hrs):	78000		Calculated L80 (hrs):	36000	
Reported L80 (hrs):	>60000		Reported L80 (hrs):	36000	



Lumen Maintenance Projection Worksheet: L90





Case Temperature 1			Case Temperature 2		
Temperature (°C):	85		Temperature (°C):	105	
Temperature (°K):	358.15		Temperature (°K):	378.15	
α:	3.06E-06		α:	6.77E-06	
B:	1.01		B:	1.02	
Calculated L90 (hrs):	39000		Calculated L90 (hrs):	19000	
Reported L90 (hrs):	39000		Reported L90 (hrs):	19000	





Thank You