

Lumen Maintenance Report

Lumileds Luxeon 3030 2D

Prepared for Lumenia
Project HLUM
17 April 2019

Lighting Resource Center - EMEA

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Lumen Maintenance Report

Release Notes

Lumen maintenance reports are based on the LM-80 report data provided by the Manufacturer.

Lumen maintenance projections to LxxB50 are calculated according to the IESNA TM-21 guidelines.

Warning: Addendum A for TM-21-11 published on March 31, 2014 does not allow to extend lumen maintenance projections beyond 6 times the linearly interpolated testing duration. **This number is therefore purely indicative.**

Lumen maintenance projections to LxxByy are calculated assuming that the distribution of times to LxxByy is the lognormal distribution.

Interpolations between the LM-80 test temperatures are made using the Arrhenius Equation.

There is no standard method for lumen maintenance projections for Byy different from B50.

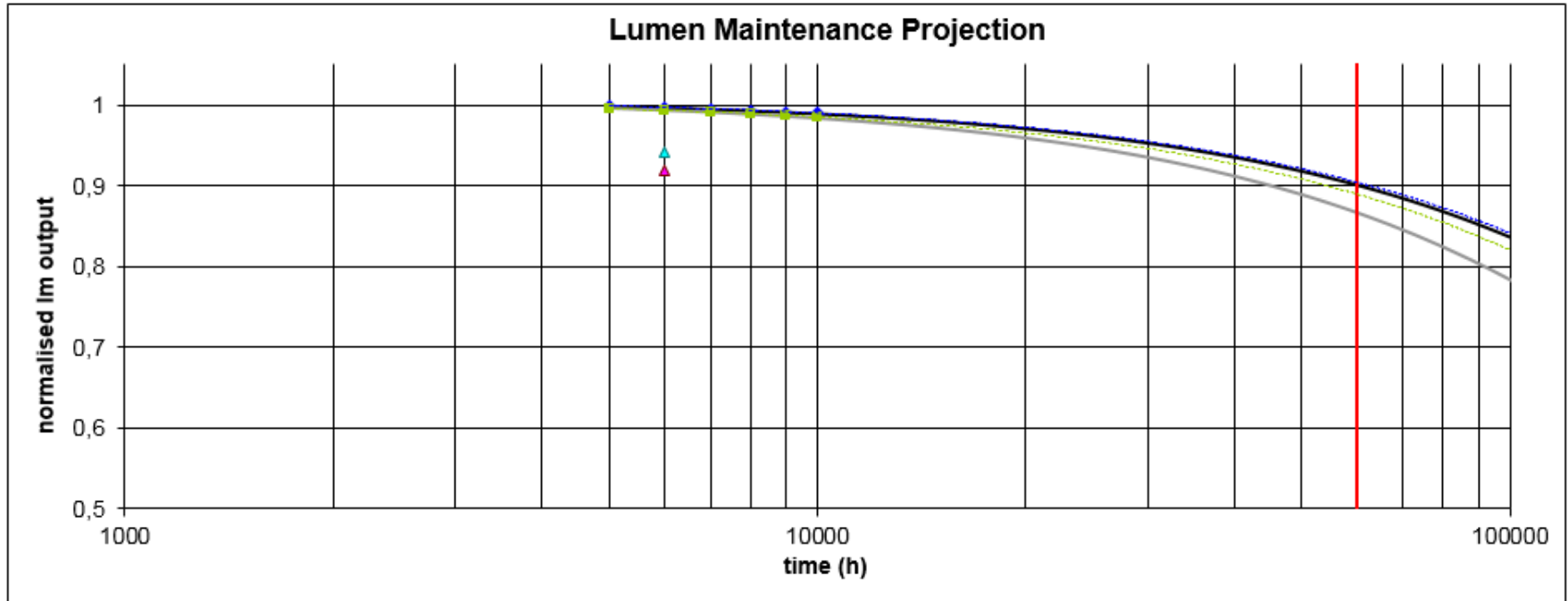
Resulting indication of time to LxxByy may therefore differ from that obtained from other sources.

Due to different approaches used in calculating times to LxxB50 and LxxByy a slight discrepancy in the projections close to LxxB50 may sometimes be observed.

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Lumileds 3030 2D L80B10 65 mA 65°C



Projections are made based on 10,000hrs LM-80 test report at 55°C and 105°C

L80B10 > 60,000hrs at $T_s = 65^\circ\text{C}$ $I_f = 65\text{mA}$

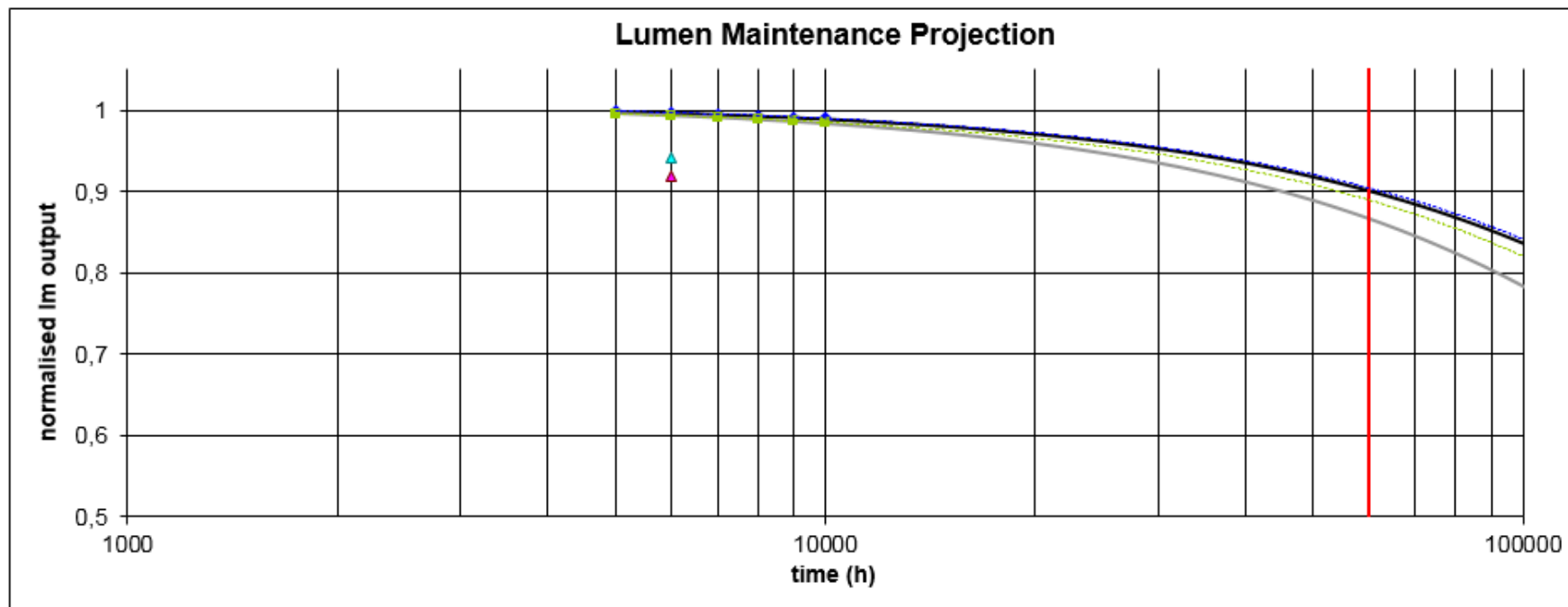
as per TM-21 (Addendum A) the reported projection limit is 6x LM-80 test duration.

The lumen maintenance at the projection limit is 87%

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Lumileds 3030 2D L80B10 100mA 85°C



Projections are made based on 10,000hrs LM-80 test report at 85°C

L80B10 > 60,000hrs at $T_s = 85^\circ\text{C}$ $I_f = 100\text{mA}$

as per TM-21 (Addendum A) the reported projection limit is 6x LM-80 test duration.

The lumen maintenance at the projection limit is 85%

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