



All of LSI Industries LED luminaire life projections are done per IES memoranda supported by the U.S. Department of Energy. Below is an excerpt from the DOE fact sheet on LED lifetimes:

The measurement of lumen (and color) maintenance for LED packages is prescribed by IES LM-80-08 (Measuring Lumen Maintenance of LED Light Sources), while the projection of lumen maintenance beyond the duration of available LM-80 data is prescribed by IES TM-21-11 (Projecting Long Term Lumen Maintenance of LED Light Sources). TM-21 lumen maintenance projections can be applied to luminaires (and possibly lamps), through the proper use of in-situ temperature measurement; however, even if this extrapolation is done correctly, it can only be used to estimate the onset of one failure mode: lumen depreciation. Two new documents are slated to define standards for measuring the lumen and color maintenance of lamps and luminaires (IES LM-84), and projecting the lumen maintenance of lamps (IES TM-28); the lumen maintenance projection for luminaires is likely to be addressed in a future revision of TM-28 or a separate standard.



To download the complete fact sheet, click the icon or visit the DOE website:

http://apps1.eere.energy.gov/buildings/publications/pdfs/ssl/life-reliability_fact-sheet.pdf

TM-21 life projections, in-situ test reports and LM-80 lumen maintenance reports are available upon request.