

Energy Star needs to move to a quality based specification that advocates for the very best possible product we can build that addresses the highest level of consumer expectation for lighting quality.

Quality in this case is defined by color, dimming and longevity and not efficacy.

- 1) Color quality is a function of three components which includes:
 - Naturalness (position on the black body locus, within the specific ANSI CCT bins)
 - Consistency between lamps (defined by specific coordinates and maximum allowable deviation)
 - Color rendering (85CRI first year/90CRI second year) *we already have some industry buy in on this (90cri is already in Title 24 and supported by ALA)*
 - All three work synergistically and *must* be provided to achieve a quality spec.
- 2) Dimming- the lamp should be capable of continuous dimming from 10-100% (NEMA Standards Publication SSL 6-2010 Solid State Lighting for Incandescent Replacement)
- 3) Longevity- the lamp should be certified to last 20K hours

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