

As a representative of the Lawrence Alliance for Responsible Lighting, I would like to comment on the progress on our wish to have the city require Westar to use streetlights and security lights below 3000 K and do other things to reduce health and safety damage from new lighting.

We have read the response of city staff. The response essentially repeats talking points fed them by industry, and includes copies of documents provided by LARL and industry at earlier meetings. The health recommendations of the American Medical Association published in 2016 are based on hundreds of peer-reviewed scientific studies going back to the mid-80s. However, the staff report seeks a "fair and balanced" attitude with the claims of the

National Electrical Manufacturers Association  
and the Illuminating Engineering Society

whose advice on medical matters they seem to put on a par with the American Medical Association and hundreds of biologists who have been doing research on lighting effects. They ask, "How much blue light does it take for bad health effects? The AMA doesn't say." This sounds like something we heard a half-century ago: "How many cigarettes does it take to cause cancer?"

Daylight 4000K lights are claimed to produce better seeing, but we have seen no evidence of this beyond mention of an upcoming conference talk. We know from basic physics that such lights produce worse glare, and produce problems during fog and for people with cataracts.

Note that we are not asking much. We are not asking the city and Westar to tear out all the 4000 K lights they have put in, as they are doing in Davis, CA and other places. We are merely asking that henceforth they use 3000 K and below, and instruct Westar to do so, as was specified in Prairie Village and they are happy with that.

Below is our first draft of a possible ordinance.

#### "Lighting in Lawrence

Henceforth, all street, task, and security night lighting installed in, or at the direction of, or owned by the City of Lawrence, KS, including Westar lights shall have light sources with Correlated Color Temperature preferably at or below 2700 K, but in no case greater than 3000 K.

Lighting shall be no brighter than 50 lux, the brightest limit being for street lights. Light shall be directed downward in full cutoff fixtures using beam angles of 120° or less for street lights, 90° or less for security lighting in residential areas or in any lights within 500 meters of the Baker Wetlands."