

## THE NEW ERA OF LIGHTING - LEDS

- The new LED lighting technology is not always well understood.
- Be aware of the differences between traditional incandescent bulbs and LED bulbs.

A 60-watt LED does not emit the same amount of light as a 60-watt incandescent  
LED bulbs emit 6 - 10 times more light than equivalent wattage incandescents

Example: A 4-watt LED emits about the same amount of light as a 40-watt  
incandescent

LED replacements for incandescent can produce much more glare

LED bulbs may not make the color of things look the same as with incandescents.

White LED light may produce annoying glare, especially with older eyes.

To reduce nuisance or discomfort glare, buy bulbs labeled Warm White (WW)  
or Soft White (SW) or rated 3000K or 2700K, but not 4000K and 5000K, which  
are more likely to cause discomfort glare.

Be aware that in many light fixtures, the LED light sources are *not replaceable*.

Although LEDs generally have a long life, when they fail, the whole fixture will need to  
be replaced.

- Good Rules for Good Lighting
  1. Aim lights downward, not beyond your property line, and not straight out or up into the sky. Floodlights should be aimed down at least 45 deg. below horizontal.
  2. Shield the light's direct glare from your neighbors' view.
  3. Have lights on *only when needed*.

All-night lighting is bad for the environment and robs our view of the stars. Artificial  
light at night can also have an adverse effect on nocturnal animals.

Put outdoor lights on motion sensors or a timer for automatic shut off at some  
reasonable hour, say 10:30 each night.