

Exposure to artificial light at night is unnatural.



In less than 100 years, humans have radically altered our nighttime environment, putting our health at risk. Due to the rapid growth of artificial light at night, most of us spend our nights bathed in light. But basking in all this light at night is not natural and it may be taking a serious toll on our health.

We are only just beginning to understand the negative consequences of this swift change in our environment. A growing body of scientific research suggests that artificial light at night can have lasting adverse effects on human health.

“The power to artificially override the natural cycle of light and dark is a recent event and represents a man-made self-experiment.”

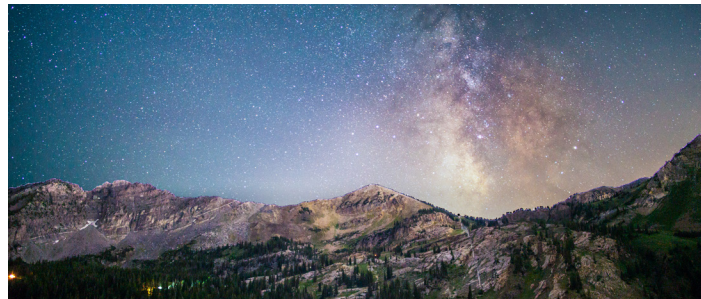
—The American Medical Association

WHY DARK SKIES?

The need to protect and restore the natural nighttime environment is more urgent than ever. Light pollution, defined as light where it is not wanted or needed, affects our health, the environment, wildlife, and our ability to find awe in the natural night. Research indicates that light pollution is increasing at a global average rate of two percent per year.

ABOUT IDA

The International Dark-Sky Association, a 501(c)(3) nonprofit organization based in Tucson, Arizona, is dedicated to preserving and protecting the natural nighttime environment.



HELP US PROTECT THE NIGHT

Our work is made possible by support from IDA members. Become a member and support our work in protecting the natural nighttime environment. Please join us today!

**DARK
SKY.
ORG**

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Light Pollution Can Put Your Health at Risk



INTERNATIONAL DARK-SKY ASSOCIATION

HUMANS NEED THE NATURAL DAY/NIGHT CYCLE

Our Biological Clocks Help Keep Us Healthy

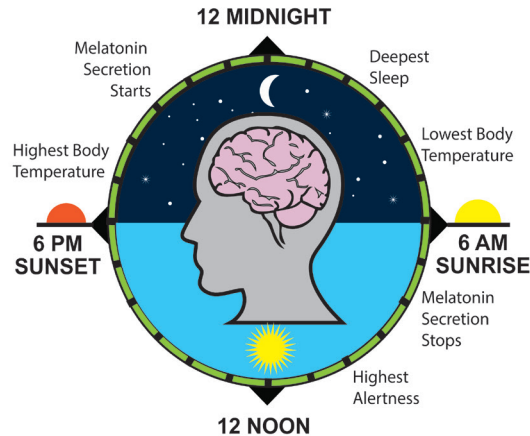
WHAT IS CIRCADIAN RHYTHM?

Humans evolved with the rhythms of the natural light-dark cycle of bright days and dark nights. Before the advent of artificial lighting, we spent our evenings in relative darkness. Like most life on Earth, humans adhere to a circadian rhythm — our master clock, which is crucial for our overall health.

It interacts with our body systems, changes our hormone levels and even modifies our genetic code. Natural light helps keep our clock in tune with Earth's 24-hour cycle.

WHAT IS CIRCADIAN DISRUPTION?

When our master clock is out of sync with the day-night cycle, it's called circadian disruption. Altering or interrupting our normal circadian rhythm can put us at risk for physiological and behavioral impacts. Shift work almost always causes circadian disruption because it puts the internal body clock at odds with the shift schedule.



EFFECTS OF CIRCADIAN DISRUPTION

Circadian disruption may increase our risk of obesity, diabetes, mood disorders, reproductive problems and cancers.

Numerous studies have linked working the night shift and exposure to light at night to increased risks for breast and prostate cancers and other health problems.

Circadian disruption can affect our natural sleep patterns, too. A good night's sleep helps reduce weight gain, stress, depression and the onset of diabetes.

WHAT IS MELATONIN?

We don't know why light at night appears to be so bad for us. But we do know that exposure to light at night – even if it's dim – can suppress the body's natural production of melatonin, a hormone that is important for our health including regulating our sleep-wake cycle, metabolism and immune system.



SAFE LIGHTING SOLUTIONS

- Use only fully shielded, IDA dark sky certified fixtures for all outdoor lighting, so lights shine down, not up.
- Use only the right amount of light needed. Too much light is wasteful and can create harsh shadows that impair vision.
- If you must use devices at night, install a color temperature app that automatically limits blue light at night based on your time zone.
- Keep your bedroom dark by using blackout curtains and cover or remove light sources such as clock radios and charging stations.
- If you need a nightlight, use one with dim red or amber light. Red light is least likely to be disruptive.
- Use indoor light bulbs that emit warm white light with a color temperature of 3000K or lower. All packaging for new CFL & LED light bulbs provide this information.
- Work with your neighbors and local government to keep light on the ground and the night skies natural.

Visit darksky.org for more information.

Glare Impairs Vision

Overly bright and poorly shielded outdoor lighting can create blinding glare. Aging eyes are especially at risk. The effects of glare are cumulative, meaning that every light source in view impacts our vision. Blue light, like that in many newer LED streetlights, is more likely than conventional light sources to impair our vision.

