

Resources to learn more about dark sky communities  
and lighting recommendations:

<https://science.ucalgary.ca/rothney-observatory>

<https://darksky.org/resources/guides-and-how-tos/lighting-principles/>

<https://www.takethreelighting.com/bug-rating.html>

<https://en.cieetoilemontmegantic.org/pourtous>

**QUALICO**<sup>®</sup>  
communities



**Vermilion Hill**

# A Dark Sky Community



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## The Benefits of a Dark Sky Community

Preserving the night sky from light pollution is important as artificial lights affect the natural habitats and patterns of wildlife, interrupt sleep and the natural cycle of night, use extra energy, create an artificial lack of contrast between day and night, and disrupt aesthetic environments.

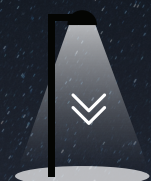
Vermilion Hill recommends that homeowners take into consideration dark sky guidelines to preserve the beauty of the night sky for all in the community to enjoy. Outdoor lights can increase safety, are functional for orienting, and can be incorporated into the community responsibly.

## Information for Homeowners

Recommendations for dark sky suitable lighting include:

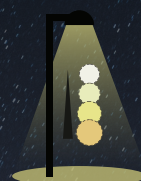
- Control lights with timers and motion detectors.
- Use warmer temperature lighting rather than cool, blue-toned lighting.
- Opt for narrow-spectrum or low-color-temperature LED bulbs to reduce the amount of blue light emitted.
- Choose lighting options that have fully shielded fixtures that direct the light to point downwards to reduce glare and diffusion of unnecessary light upward.
- Control light intensity if there can be gradient settings.  
(For example, at 20%-30% intensity)
- Choose lighting options that are at or below 3000 Kelvin / 1,500 lumens / 15 Watts LED for most domestic uses.
- Multiple low-powered lights in the right places are better than one bright light.
- Schedule holiday lights to be off after 10 p.m.

### 4 Principles for Outdoor Lighting



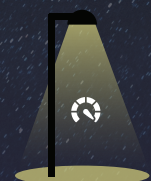
#### Orientation

Choose a luminaire whose light is directed entirely towards the ground.



#### Colour

Use amber and warm-coloured light sources.



#### Intensity

Use the right amount and intensity of light for sober and uniform lighting.



#### Timing

Adjust the timing and duration of outdoor lighting.

### Choosing the Right Lighting

#### Light fixture



- Fully shielded light source
- Downward light beam
- Motion detector, timer and dimmer controls
- Visors and shields limiting light trespass
- Full cutoff amber LED fixture



#### Light bulb



< 2200K

Bug light

Yellow

For a brightness of more than 1000 lumens:

- 1800K to 2200K, Amber LED and "Bug Light"

For a brightness below 1000 lumens:

- Colour temperature of 3000K or lower

