

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

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

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

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

QUALICO[®]
communities



Vermilion Hill

A Dark Sky Community



customercare@qualicocommunities.com

The Benefits of a Dark Sky Community

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.
- Multiple low-powered lights in the right places are better than one bright light.
- Schedule holiday lights to be off after 10 p.m.

Consider the BUG rating:

BUG Rating System

The BUG (Backlight, Uplight, Glare) rating evaluates outdoor lighting to minimize light trespass, skyglow, and glare.

Backlight (B): A rating of B0, B1 or B2 is preferred. Limits light spilling into unintended areas.

Uplight (U): A rating of U0 is required, meaning the luminaire emits no light above the horizontal plane. Reduces skyglow, preserving views of the night sky.

Glare (G): A rating of G0, G1 or G2 is preferred. Prevents harsh light that impairs visibility.



4 Principles for Outdoor Lighting



Orientation

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



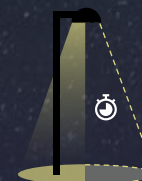
Colour

Use amber and warm-coloured light sources.



Intensity

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

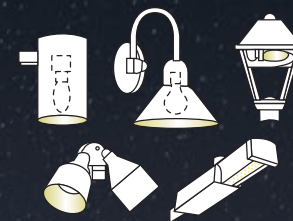


Timing

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

1000 K 2000 K 3000 K 4000 K 5000 K 6000 K



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

