

Prune Alley

Intersection/Crosswalk Lighting Options

The following fixtures meet the requirements to be *Dark Skies Approved*



However, not all fixtures perform at the same level. Keep in mind that outdoor lighting should...

- Not be overly bright
- Dim and/or turn off when not needed
- Only light the intended area
- Minimize blue light emissions
- Be fully shielded (pointing downward)

Each of these fixtures has a “B.U.G”. rating

Low BUG rating = less Pollution, Less Glare

Backlight (B)

Backlight, also known as light trespass, refers to the light from the fixture spreading away from the street, sideways and downward but not toward the crosswalk in this case, illuminating areas that are not intended to be illuminated. When you can't sleep at night because of the light shining out from behind a streetlight into your window, that's backlight. In order to get more light to head towards the street, manufacturers can use optics, reflectors, or glare shields to redirect it as custom orders.

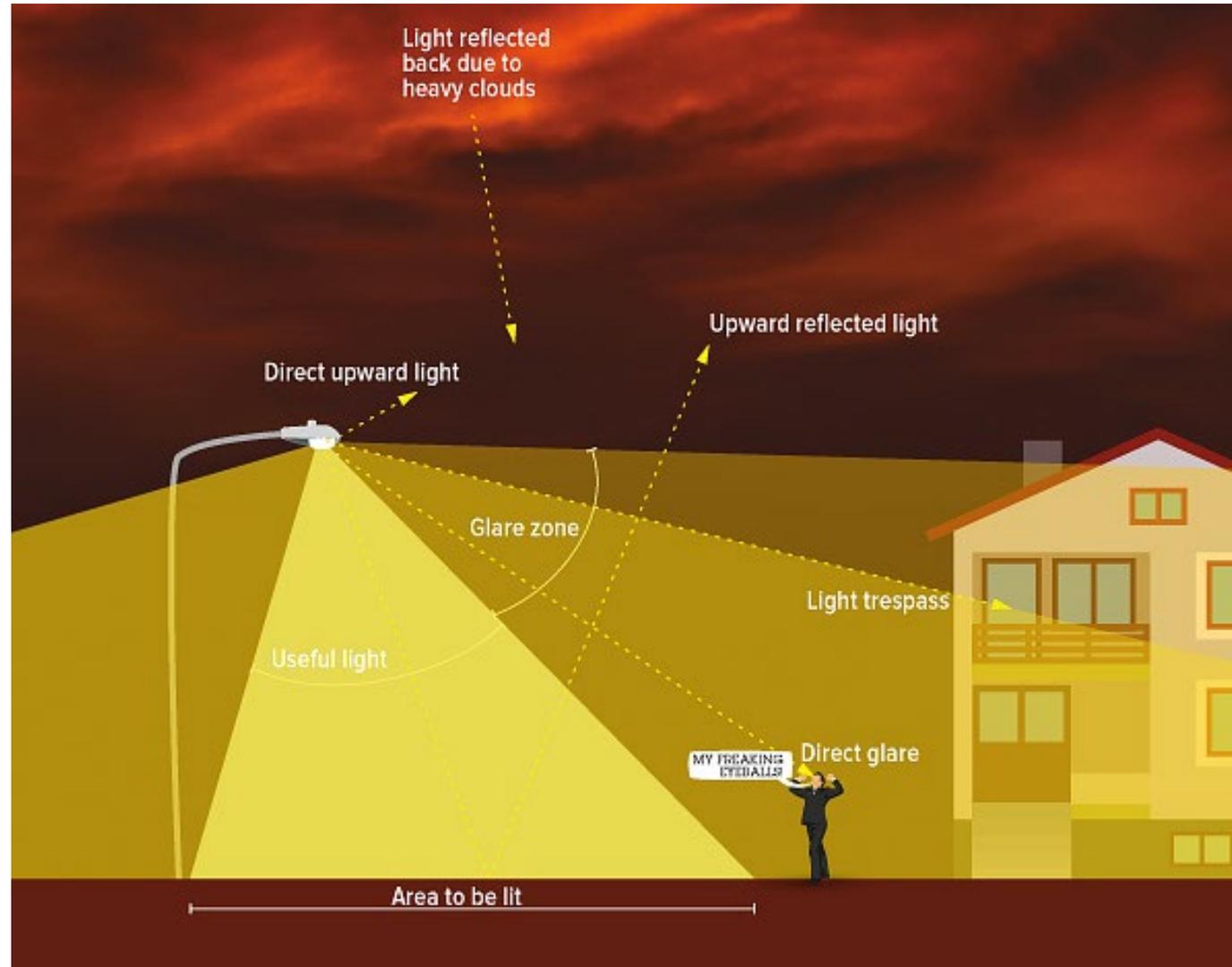
Uplight (U)

Uplight is the light that shines upwards from a fixture towards the sky — It's also called “skyglow”. In exterior lighting, any uplight is wasted light and not going towards where people need it. It will also block out the view of the stars and moon. Skyglow can be cut down by fully shielding your fixture and by making sure it's pointed towards the ground. This will also reduce energy use and cost. The IDA is particularly concerned with limiting uplight so more people can enjoy the stars at night. Old streetlights in Eastsound have lots of uplight.

Glare (G)

Glare, also called “offensive light”, making you squint. This makes it more difficult for people to see and drive when it shines into their eyes. It is especially dangerous when operating a motor vehicle at night and can leave drivers “blinded by the light”. Glare can be reduced by using lights that aren't as bright or by selecting a light with a more downward distribution pattern that's appropriate for your intended use. G-0(zero) is the safest.

Where Backlight, Uplight and Glare Affect Us



Why is color temperature important?

Blue light in higher color temperature light is bad for human health at night and significantly disrupts the life-cycles of birds, insects and sea life.

The International Dark Skies Association requires all their approved fixtures to be a maximum of 3000K, but recommends 2700K as the safest light quality temperature. The lower temperature has less blue light.

All the following fixtures can either be installed with 2700K light emitters off the rack or special ordered to be converted to 2700K light emitters for a fee.

Option 1

Post top luminaire

16 feet tall

Largest at 31" wide

Brightest Option

Most Backlight, Most Glare

Light Quality (3000K) Custom 2700K is possible for an upcharge

Baffle could be specially fabricated

Light reaches all the way across the street

BUG rating – B2 U0 G2 Not the best rating



Option 2

Post top Luminaire or Wire-suspended
12 to 16 feet high pole, wire any height

27" wide

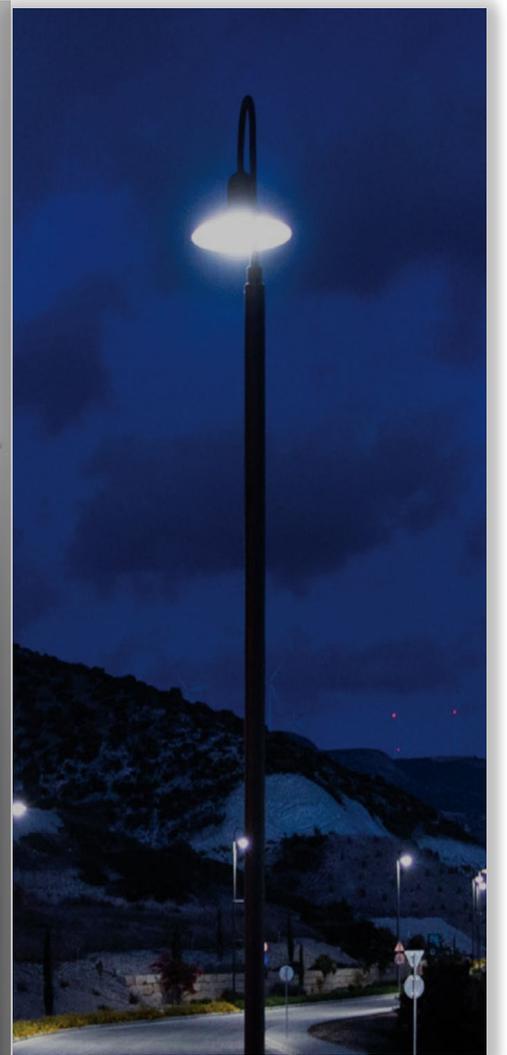
Dimmable

Baffle to block backlight

Safest Light Quality (2700K) standard

Reaches all the way across the street

BUG rating – B1 U1 G1 Pretty good rating



Option 3

Post top Luminaire

12, 14, or 16 feet high

Luminaire is 21" wide

Only small amount of Glare

Light-diffusing Lens

Doesn't need a baffle b/c zero backlight, but baffle could be used

Dimmable

Second-safest Light Quality (3000K) convertible to 2700K

Light from both sides meets in middle of street

BUG rating B0 U0 G1 Very good rating



Option 4

Post top Luminaire

15 feet high

18.7" to 23.7" wide

Small amount of backlight and glare

Light Quality (3000K) Custom 2700K available
with possible surcharge

Light-diffusing Lens

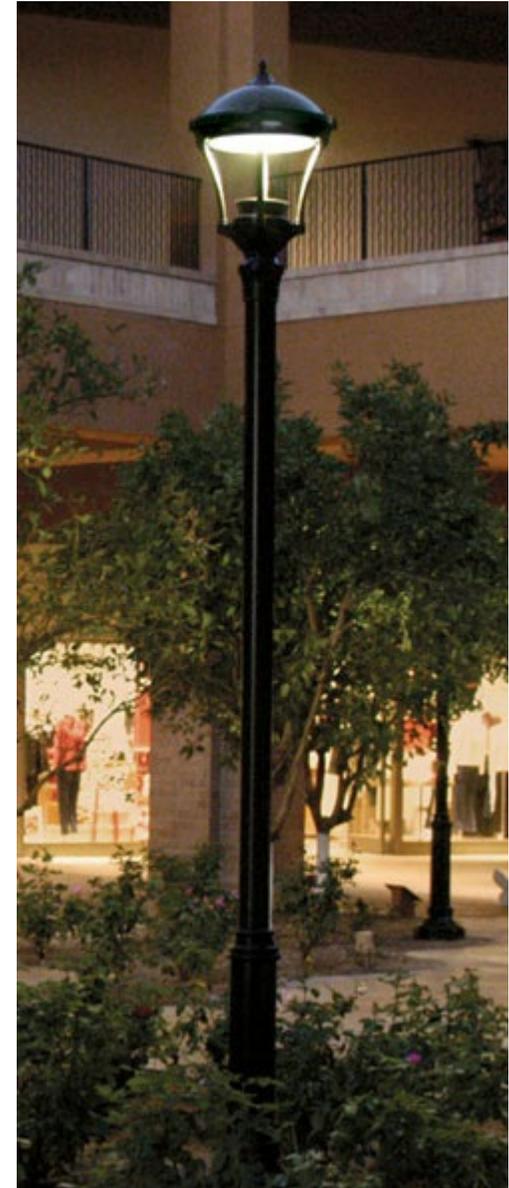
Gasket available for Backlight

Dimmable

Small amount of Glare

Light from both sides meets in middle of street

BUG rating - B1 U0 G1 Good rating



Option 5

Low Path Light

Shortest at 37" tall

11" wide

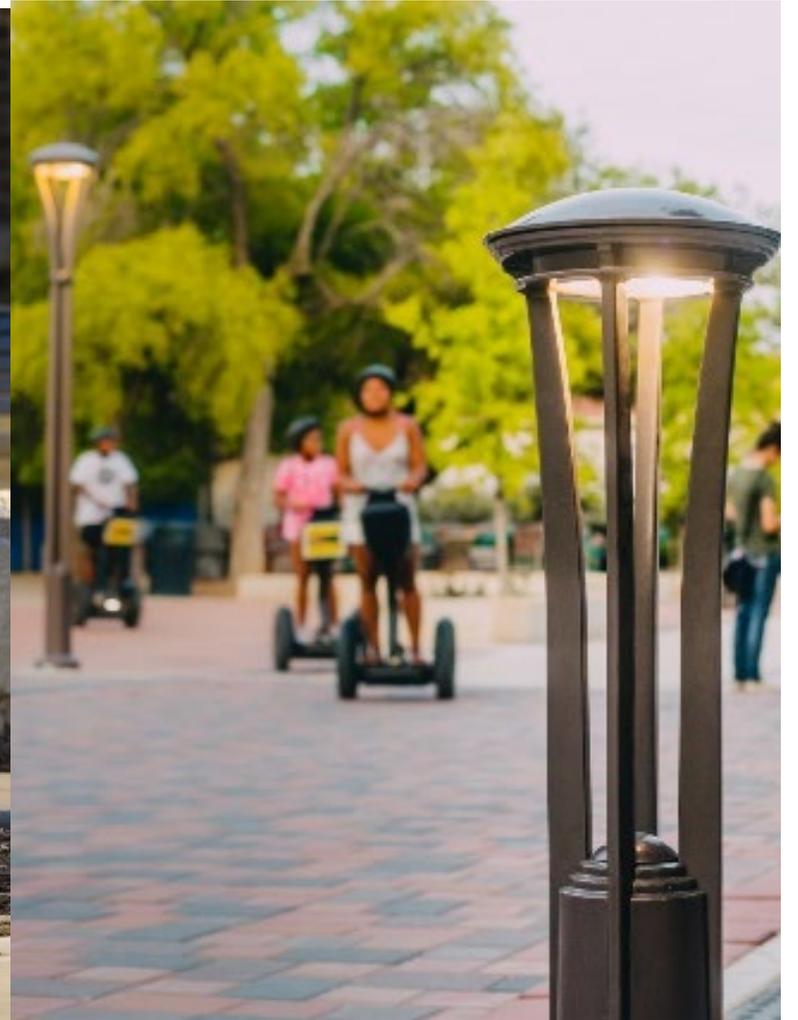
Small amount of glare

Second-safest light quality (3000K)
convertible to 2700K

Lights only where the pedestrian steps off
the street, not across the street

Might choose 2 per corner for broader
coverage

BUG rating - B0 U0 G1 Very good rating



Option 6

Square Light Column – 15 feet tall

Thinnest at 9.7" wide

Angled down between 60 to 85 degrees

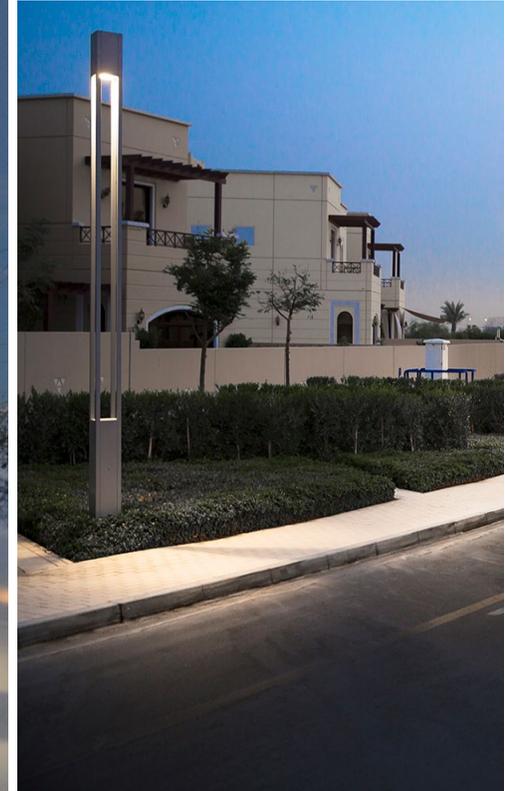
Safest light quality (2700K) standard

No Glare

Lights only part way across the street

BUG rating B2 U0 G0 if open on all sides

Perfect BUG rating B0 U0 G0 if
closed/shielded on one side



Option 7

Home Depot Dock Light

Mounts to a pole or wooden post

Uses 1 200Watt bulb, not LEDs

Inexpensive

Breaks, bends easily

Could be set on a timer or dusk to dawn

Light would extend a few feet off the curb

No BUG rating to compare

