



Stargazing

Stargazing has been established as an educational outreach program which is held twice a year that increases public involvement, education, awareness, and appreciation of the night sky.

References

Illinois Coalition for Responsible Outdoor Lighting www.illinoislighting.org/
 Flagstaff Dark Skies Coalition www.flagstaffdarkskies.org
 International Dark Sky Association www.darksky.org
 Homer Glen Outdoor Lighting Ordinance www.homerglenil.org
 U.S. News and World Report, "Turning Out the Lights," <http://www.usnews.com/science/articles/2008/03/14/turning-out-the-lights>
 Chicago Wilderness Magazine, Spring 2008, Page 10 <http://c.ymcdn.com/sites/www.chicagowilderness.org/resource/collection/0625B160-07C5-482A-8BDF-D86381B9FC77/2008-Spring.pdf>



MINIMIZE LIGHT POLLUTION

Homer Glen contends with sky glow from other towns, which creates a perpetual twilight at night.

Light pollution can be reversed without sacrificing safety or security and is cost effective.

Village of Homer Glen 4th International Dark Sky Community in the World

In 2011, the International Dark Sky Association declared the Village of Homer Glen as the 4th International Dark Sky Community (IDSC) in the world. The Village is the third community in the United States and the first community to do so east of the Mississippi River. *IDA acknowledges that the Village has shown "exceptional dedication to the preservation of the night sky through implementation of quality lighting codes, dark sky education, and citizen support of dark skies"* - and in recognition for excellence in regulating excessive artificial lighting.

Commercial and Industrial Properties

New commercial and industrial lighting projects are submitted to the Village as well as any lighting changes and improvements on existing property in commercial and industrial zones. The Village of Homer Glen adopted an Outdoor Lighting Ordinance in December 2007.

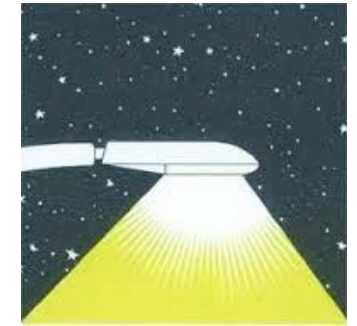
The Ordinance Provides Guidelines for Outdoor Lighting

Homer Glen Recognizes the Night Sky as a Natural Resource

- Eliminates the need for commercial and industrial properties to compete for visual attention by escalating outdoor lighting levels in order to prevent "Light Wars"
- Protects residents and business owners from the trespass of excessive and misdirected light from adjacent property owners known as "light trespass"
- Promotes the safety and welfare of pedestrians, cyclists, and motorists who benefit from the reduction of glare
- Reduces the detrimental effects to wildlife that depend on the natural cycle of day and night for survival
- Protects neighbors from unwanted light spilling onto their property
- Promotes sound environmental policies that serve as an example for reducing the amount of energy consumed and money spent on over-lighting and natural resources used
- Reduces light projected into the night sky where light is not needed
- Policies benefit residents and businesses
- Serves as a positive model for municipalities in the United State to follow Homer Glen's lead and "Reach for the Stars"

Village of Homer Glen

SHINE DOWN
WHEN YOU LIGHT UP!



Put Light Where You Need It
When You Need It
Do Not Light Up the Sky!

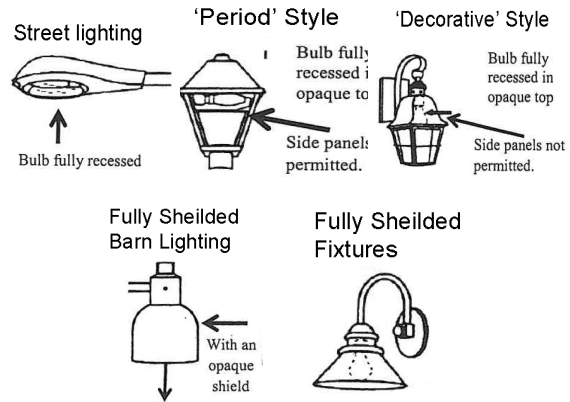
- Conserve Energy, Save Money
- Wasted Energy = Wasted Money
- Minimize Glare
- Minimize Light Pollution
- Promote Public Safety
- Light Your Property, Not Your Neighbors
- Prevent Light Wars
- Beautify Commercial Areas
- Preserve the Night Sky as a Natural Resource
- Prevent Negative Effects on Wildlife

"Down Lighting" is consistent with established professional standards and recommendations.

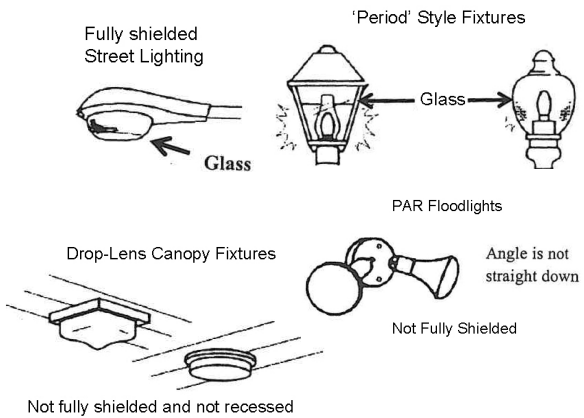
What Light Fixtures Should be Used? “Fully Shielded” Fixtures Direct the Light Down!

Put the light where you need it!
Direct the light down—not up or sideways

Examples of Fully Shielded Fixtures



Examples of NON Fully Shielded Fixtures



*Be kind to your neighbors.
Shine on your property.
Don't trespass with your light.*

What Are Watts?

Watts are a measurement of energy use.

What Are Lumens?

A lumen is a unit of measurement of visible light from a light bulb. Think lumens not watts.

Where Do I Find Them?

Lumens and watts are typically specified by the manufacturer on the package of the bulb.

Typical values for incandescent bulbs are “approximate”.
60 Watts equals 800 Lumens
75 Watts equals 1100 Lumens
100 Watts equals 1600 Lumens

Example of a light bulb package

Lighting Facts Per Bulb	
Brightness	820 Lumens
Estimated Yearly Energy Cost	\$7.23 Based on 3 hrs/day, 11¢/kWh Cost depends on rates and use
Life	1.4 years Based on 3 hrs/day
Light Appearance	Warm Warm Cool 2700 k
Energy Used	60 watts

To save energy costs, find the bulbs with the light output you need, then choose the one with the lowest watts.

Lighting the Flag at Night



Direct the lighting only on the flag .



A solar or electric light can be mounted on the top of the flag pole to aim the light down on the flag.

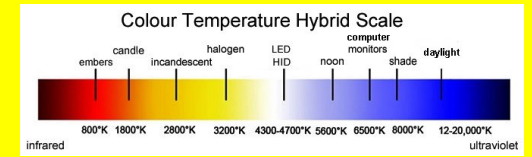
Glare and Visibility

Outdoor lighting is intended to enhance safety and security at night. Too much lighting can have the opposite effect.

- Visibility should always be the goal
- Glare from bright unshielded lights decreases safety
- It shines into our eyes and diminishes the ability of our eyes to adapt

What is Correlated Color Temperature “CCT”
Correlated Color Temperature (CCT) is a way of describing color such as the color of paint, a flower, and the light from a lamp (light bulb). CCT is described in degrees Kelvin rather than Fahrenheit. CCT is **not** about brightness.

A warm (low) CCT lamp color produces less glare. A cold (high) CCT lamp color produces more glare. A warm CCT color improves safety and security, is easier on the aging human eye, and reduces sky glow.



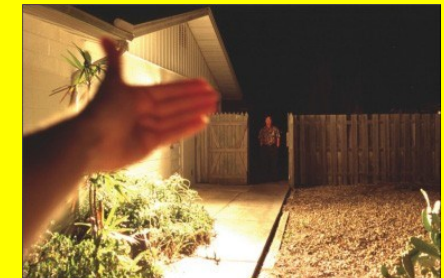
Glare

Glare is a visual disturbance and negatively affects the eyes. Glare reduces the ability to see signs, people and other safety cues. The human eye requires time to adapt from light to dark conditions. The safety and welfare of pedestrians, cyclists, and motorists depends upon the reduction of glare.

***Promote Public Safety and Security
Take the “Glare” out.***



Unshielded Fixture Prevents Visibility



Shielded Light Fixture Reveals the Person at the Gate