

# V

## *Lighting*

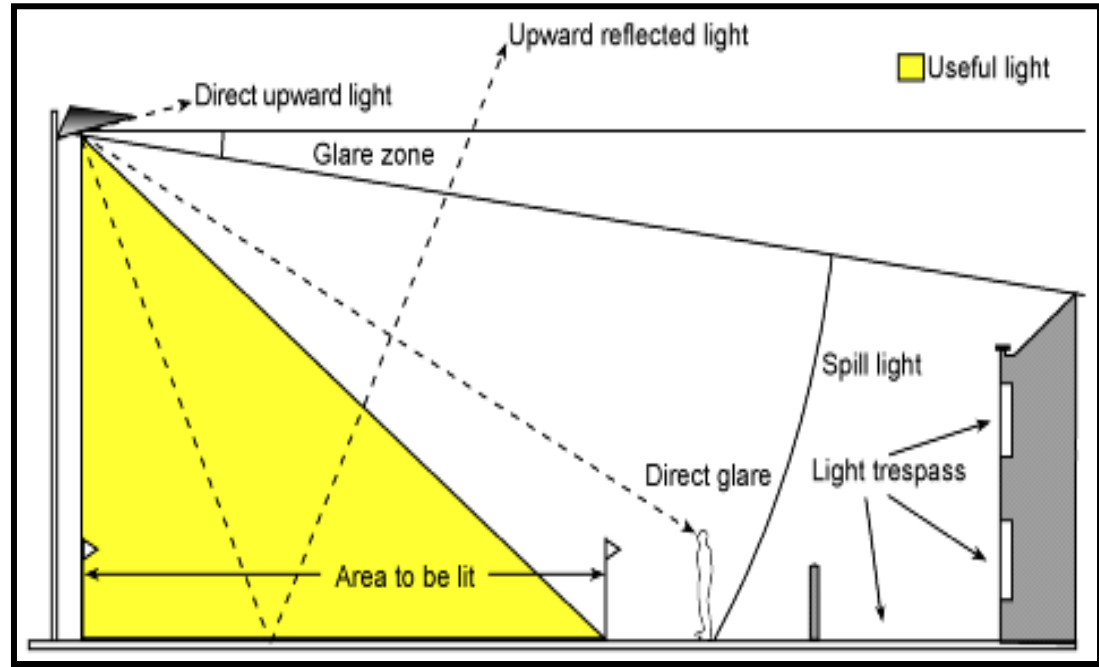


# Site Lighting:

The Carroll County Code requires that all new businesses keep the glare of their lighting off public roadways and on their site. Light trespass and glare are elements which will be considered in all site plan reviews. .

Light pollution is often caused by the way light is emitted from lighting equipment. Choosing proper equipment and carefully mounting and aiming it can make a significant difference

Photometric plans will be part of all plan submittals to indicate lighting locations and the control of glare. This plan will also indicate any dark spots on the site which may pose security concerns. Details of all lighting fixtures and pole heights are expected on the lighting plan portion of all site plans.

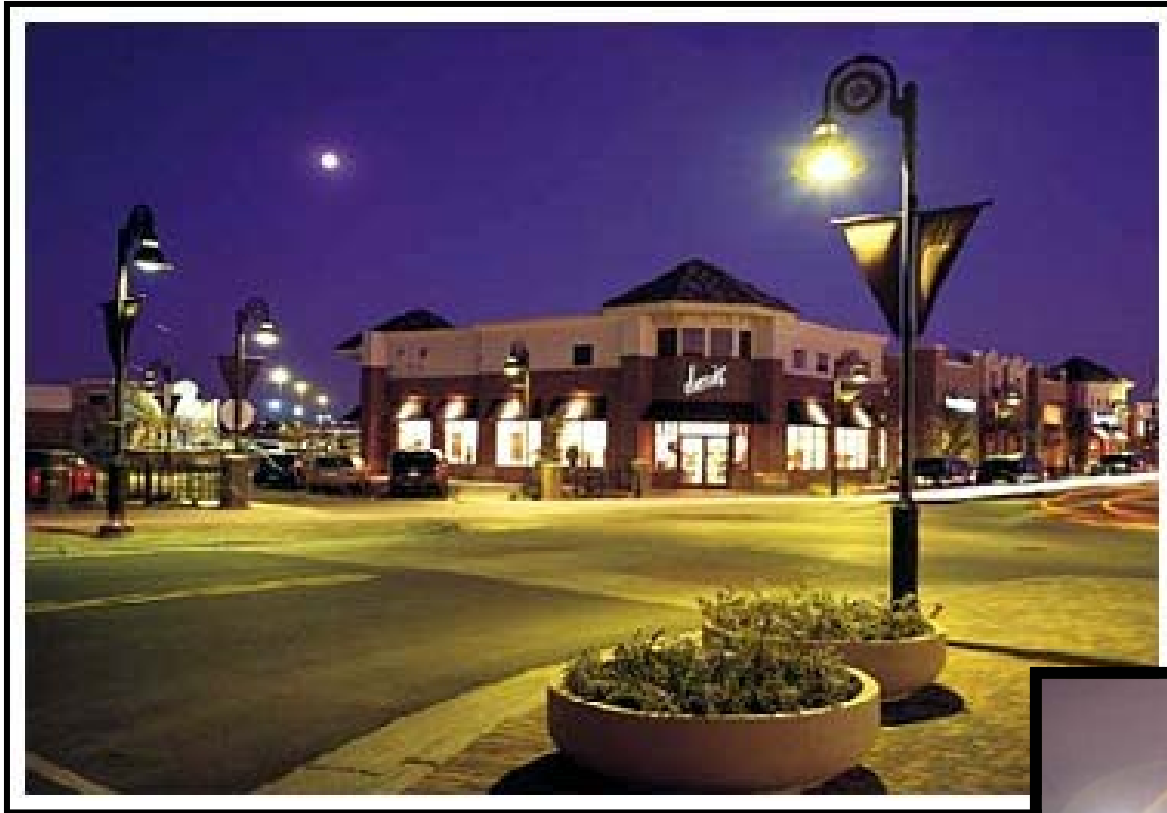


Full cut-off lights with flat lenses are preferred to others, with pole heights not exceeding 15 feet in height to minimize light trespass and glare. Wall Pack lights which direct light indiscriminately outwards are discouraged. Where these lights may be used in delivery / service areas, they should be shielded to direct the glare downward. Of particular concern is canopy lighting at service stations and convenience stores. Canopy lights should be recessed, utilizing metal halide bulbs, thus minimizing light trespass and provide a true, white lighting. Examples of both good and bad site light can be found at this web site: <http://www.transitofvenus.org/examples.htm>.

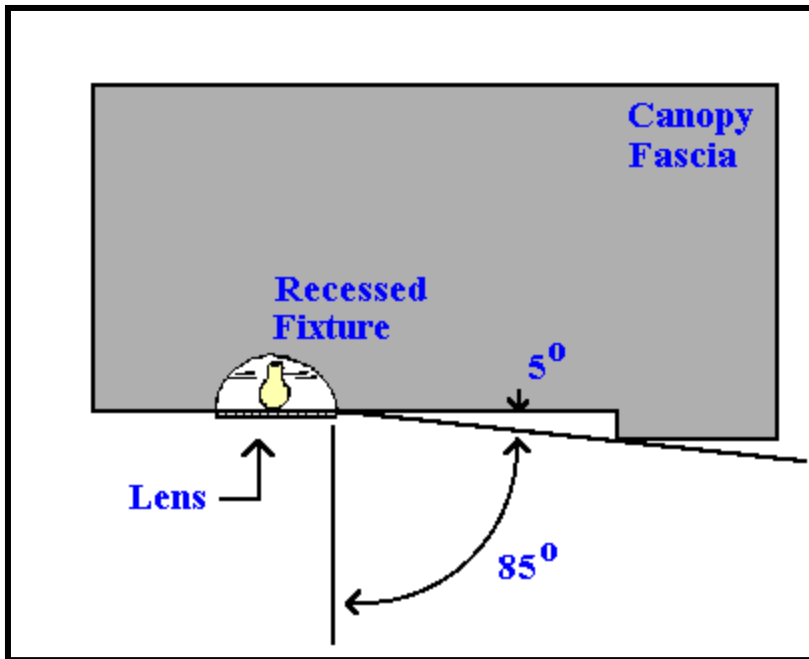


*Site lighting can be an exciting design element*

***Reduced glare improves site lighting.***



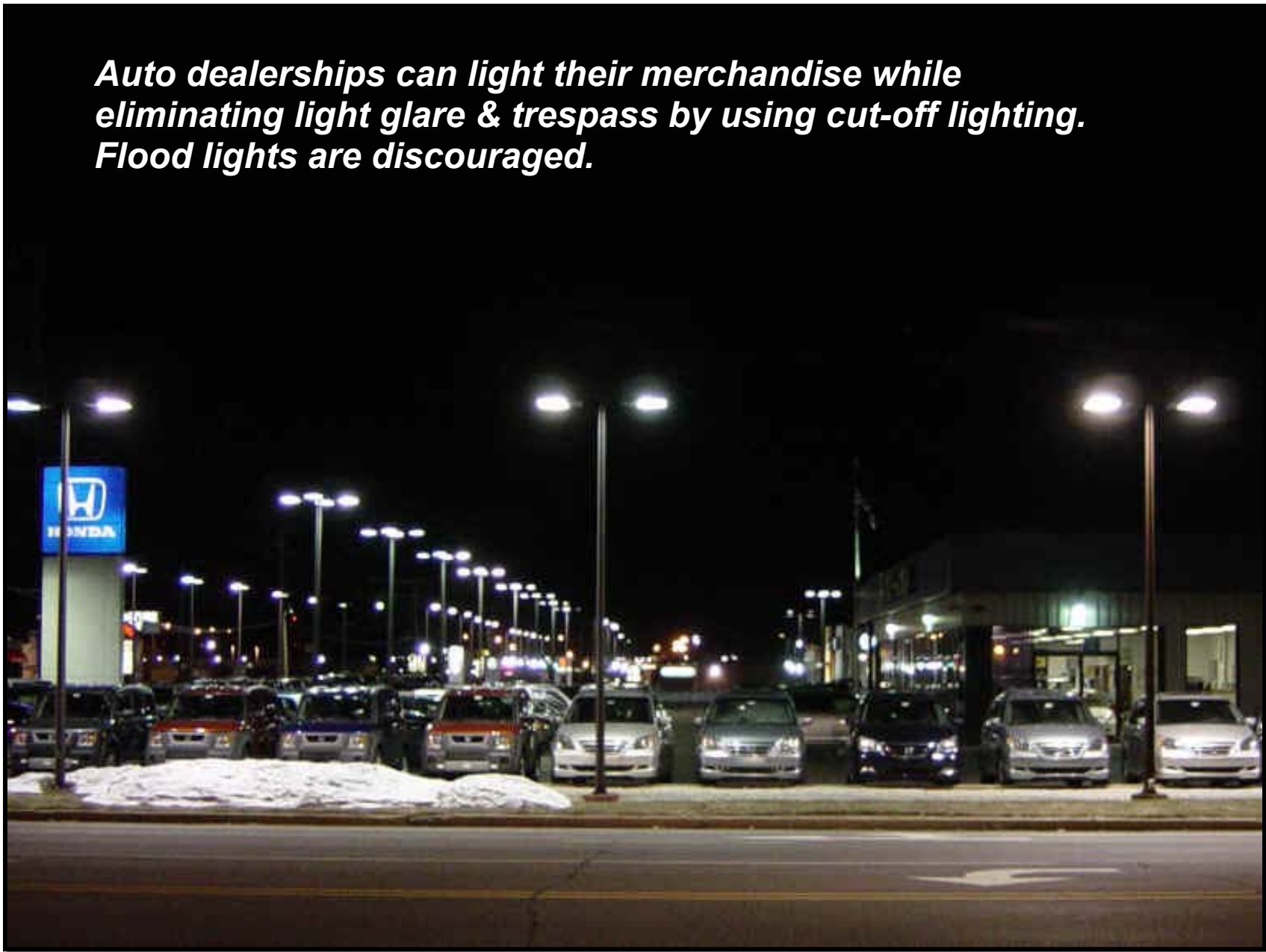
**Canopy lighting should be recessed within the structure. The edge of the canopy should protrude below the surface area.**



Side view of Canopy



***Auto dealerships can light their merchandise while eliminating light glare & trespass by using cut-off lighting. Flood lights are discouraged.***



**Typical cut-off style lights**



***It takes more than attractive fixtures to minimize glare and eliminate trespass.***



The same fixture can house many type light sources and use refractors to direct light



***Discouraged lighting...***

Indiscriminate yard light



Gang floodlight



Wall pack light



Non-cutoff shoebox



Floodlight



Cobra head cluster

