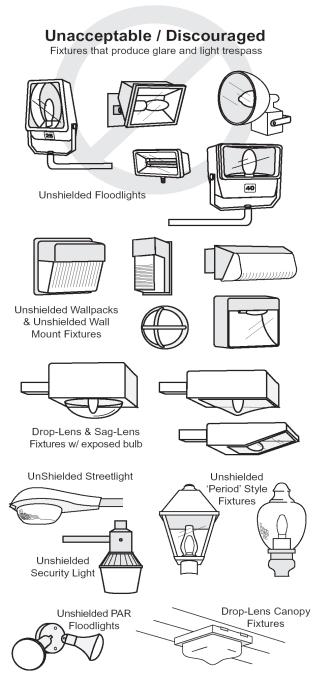
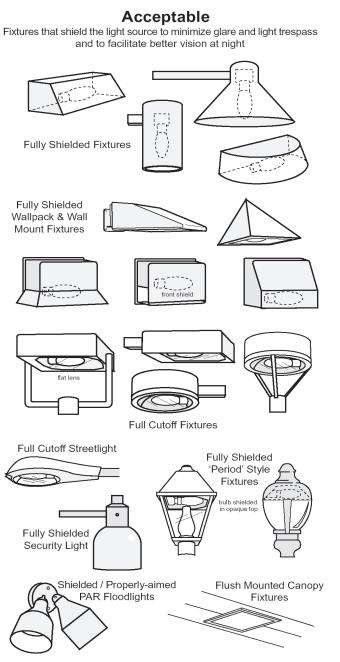
These type of fixture designs do **NOT** comply in all locations.



These type of fixture designs **DO** comply in all locations.



This illustration courtesy of Bob Crelin / NELPAG

Good Neighbor Lighting

Lighting Requirements and Practices in Cambridge.



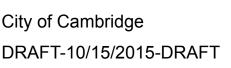






Photos by Jeffrey Berg





Lighting Best Practices

Adequate lighting in the city ensures people can go out after dark but excessive lighting can have negative impacts such as light trespass, glare, light pollution and wasting energy. Good lighting.....

- Promotes safety and security in our neighborhoods.
- Preserves and enhances neighborhood character.
- Reduces or prevents light from spilling onto neighboring properties.
- Promotes energy conservation and saves money.
- Enhances the night-sky beauty.
- Improves the quality of life for people and wildlife.

Sensible lighting practices make good lighting AND good neighbors!

What about neighbors with problematic lighting?

Please provide your neighbor with a copy of this brochure and share with them the easy steps for existing lights. If you are unable to resolve the issue after a friendly conversation, please feel free to contact ISD to file a formal complaint.

Where can I find more details?

The full text of the Outdoor Lighting Ordinance can be found in Section 15.22.010 in the Cambridge Municipal Code. Complete Prescriptive and Performance Standards and Application Requirements are outlined in this code, along with exemptions and enforcement rules.

For more information, please contact:

Inspectional Services Department

831 Massachusetts Avenue, Cambridge, MA 02139 Phone: 617-349-6100 TDD: 617-349-6112 Website: www.cambridgema.gov/inspection



Easy Steps for Existing Lights

Meeting the new requirements might be as easy as changing your light bulb! Use the lowest watt bulb necessary to safely illuminate the space; save money on energy costs; and eliminate light pollution and glare. Look at the Lighting Facts Label (example at right) that is on all light bulb packages to determine if it meets the City standards.

These simple rules cover most lights:

Facing the Street

A light fixture that is fully, partially or not shielded can be 630 lumens and mounted up to 12 feet above the surface to be illuminated.

Entrances, Walkways, Open Spaces & Architectural Details

A light fixture that is shielded can be 1,050 lumens and mounted up to 12 feet above the surface to be illuminated.

Facing the Neighbors

In general, any light fixture that is partially or not shielded can be 315 lumens and mounted up to 12 feet above the surface to be illuminated.

Parking Areas & Driveways

A light fixture that is shielded can be 1,260 lumens and mounted up to 14 feet above the surface to be illuminated.

Other Good Practices include:

- Redirect fixtures to only illuminate your property and not spill over to neighboring property.
- Add shielding provided by manufacturer to existing fixtures that will direct light where it needs to go.
- Create a lighting plan by sketching locations of existing fixtures and compare light levels. Proper spacing with lower light levels will make the area safer while decreasing light pollution and light trespass.

Lighting Facts Per Bulb	
Brightness	800 lumens
Estimated Yearly Energy Cost \$1.57 Based on 3 hrs/day, 11 c/kWh Cost depends on rates and use	
Life based on 3 hrs/day	energystar 9 years
Light appearance Warm 2700 κ	Cool
Energy Used	13 watts

DRAFT

DRAFT

Pay attention to *Brightness* (lumens) and *Light Appearance* (color temperature) for each bulb. The light color temperature should be as low as possible, with a color temperature limit of 3500 K.

Easy Steps for New Lights

- Before installing any fixture, always consult with the Cambridge Inspectional Services Department (ISD) about the applicable electrical and energy codes and proper permitting process. A licensed electrician needs to pull an approved permit from ISD before work can begin.
- 2. Review the light level requirements listed in the Prescriptive Standards outlining the lumen limits, fixture shielding requirements, mounting height limits, and recommended bulb limits. Make sure the new fixtures comply with the latest requirements.
- 3. A licensed electrician must complete and submit an Electrical Permit Application to the Inspectional Services Department for review. Only fixtures that meet current standerds will be approved.