



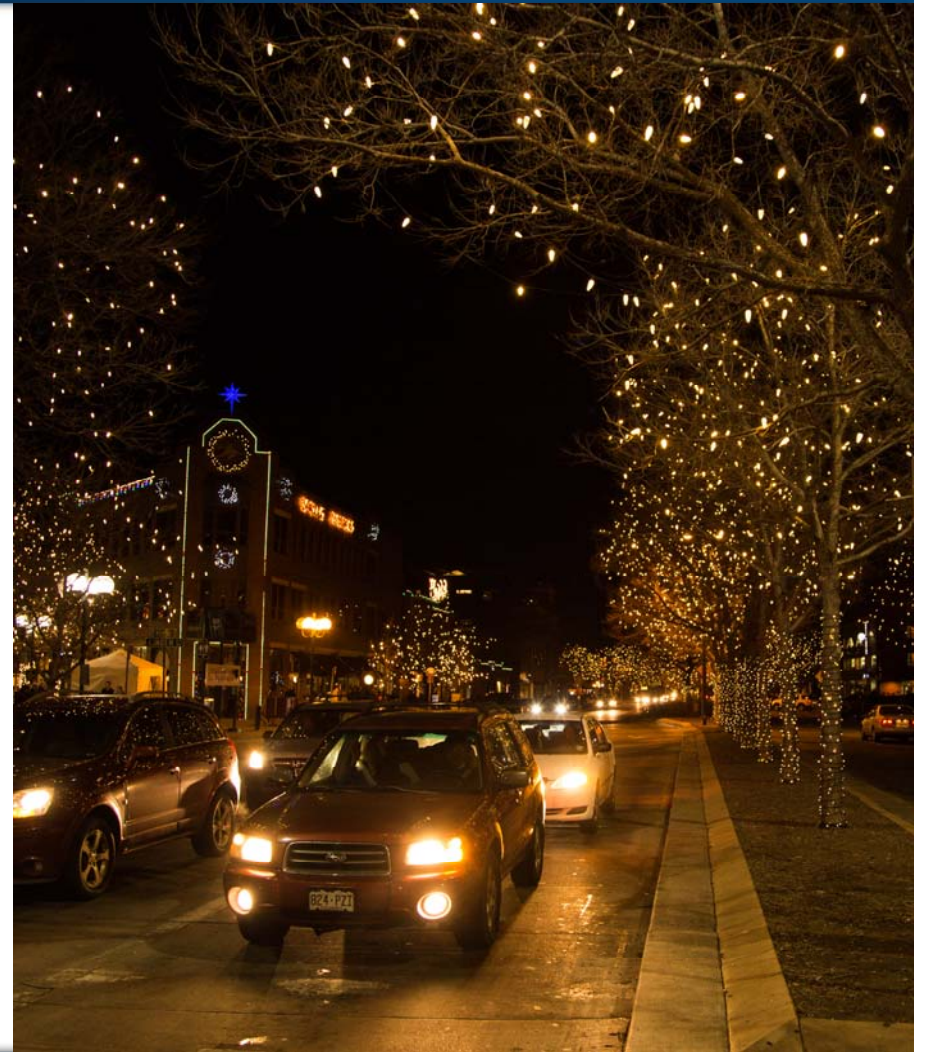
## Fort Collins Outdoor Lighting Standards

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April 27, 2016



1. How do we regulate?
2. What do we regulate?
3. What's coming next?

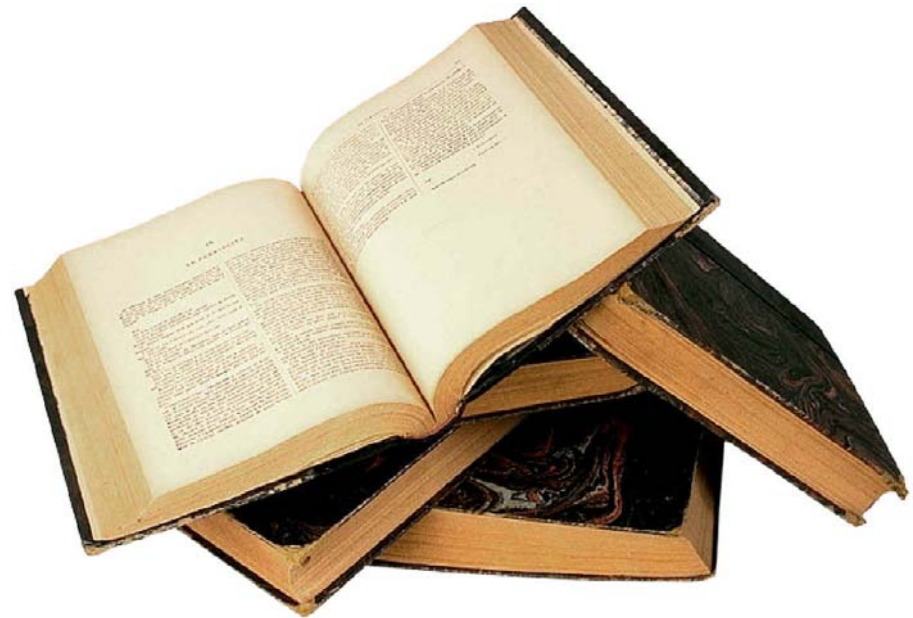


## Multiple departments:

- Planning Services
- Building Services
- Utilities

## Multiple codes:

- Land Use Code
- Residential Code
- Energy Conservation Code
- Larimer County Urban Area Street Standards



# How the City Regulates Lighting

	Residential Code	Energy Code	Land Use Code
Single-Family Detached	X		
Single-Family Attached	X		
Duplex	X		
Multi-Family		X	X
Commercial		X	X

## What the City **DOES** Regulate

### Light Placement:

- Buildings, parking lots, walkways, plazas, landscape areas
- Spillover lighting (foot-candles)
- Impacts to adjacent properties
- Impacts to natural features

### Light Fixtures:

- Efficiency
- Shielding
- Glare
- Brightness

### Operations

- Timing
- Dimming



## Light Fixture Specifications:

- Color temperature (Kelvin)
- Lumens
- Wattage
- Pole height
- Specific technology (e.g., LEDs)



## **\*Commercial & Multi-Family Projects**

### Land Use Code Section 3.2.4 – Site Lighting

- Lighting evaluated in the development review process
- Applies to lighting for:
  - Buildings
  - Parking lots
  - Walkways
  - Plazas
  - Landscape
- Ensure that functional/security needs are met without adversely impacting adjacent properties & neighborhood
- Considers light source, level of illumination, hours of illumination & need for illumination

- Minimum & maximum foot-candle levels depending on location
- LED lighting limited to 1,000 candela/sq. meter (max)
- Light fixtures must be:
  - Concealed
  - Fully shielded
  - Full cut-off
- Up-light, spill-light, glare, contrast & brightness should be minimized
- Natural areas/features should be protected from light spillage





## **\*Commercial & Multi-Family Projects**

- Applies to:
  - Building façades
  - Parking lots & garages
  - Canopies (sales and non-sales)
  - Outdoor sales areas
- Requires:
  - Automatic controls to dim lighting by at least 50% two hours after normal business closing
  - Outdoor lighting must be turned off 30 minutes after sunrise

## **\*Single-Family Detached, Attached & Duplex Housing**

### **Dark Night Skies:**

- Light should be shielded so the lamp itself is not visible beyond the property line
- All exterior lighting fixtures (new buildings) shall have the “Fixture Seal of Approval” from the International Dark-Sky Association (IDA)
- Lighting placement shall conform to IDA Model Lighting Ordinance for Lighting Zone 1 (low ambient lighting):
  - Lighting may be used for safety and convenience but it is not necessarily uniform or continuous
  - After curfew, most lighting should be extinguished or reduced as activity levels decline

## **\*Single-Family Detached, Attached & Duplex Housing**

### **Energy Efficiency:**

- A minimum of 75% of light fixtures should be high efficiency lamps
- OR**
- A minimum of 50% of lighting fixtures shall contain only LED lamps





## What's Coming Next?

- Currently exploring updates to:
  - Land Use Code
  - Energy Code & Residential Code
- Summer 2016:
  - Evaluate best practices & latest technology
- Fall/Winter 2016:
  - Revise code standards as needed



## What's Coming Next?



- Focus of potential updates:
  - Align various codes to reduce confusion & conflicts
  - Customize requirements based on land use context
  - Ensure requirements match new technology and best practices
  - Consider intensity, color temperature and other specifications
  - Consider efficiency & lifecycle costs
  - Reduce light pollution

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