


# Lighting


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## Lighting Programs- Broilers

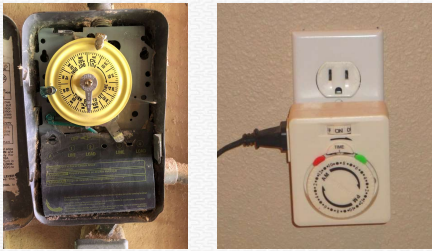

- ▶ Typical Program
  - ▶ Continuous lighting (24 hrs. per day)
    - ▶ Start with as much light as you can give
    - ▶ Reduce intensity after 3 days if possible down below 1 foot candle
- ▶ Alternative programs
  - ▶ Giving some dark period
  - ▶ Some have success



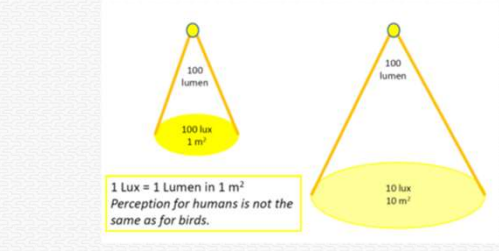

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## Light Control

▶ Hours of light per day (day length) can be easily controlled using simple time clocks

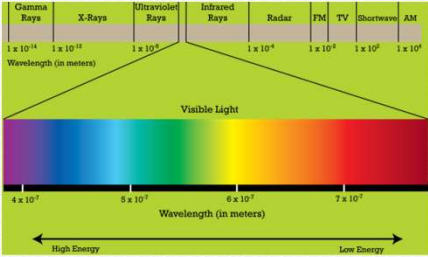




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## Light Spectrum

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## Human vs Chicken Vision

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Example of differences in vision

Humans Birds

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Does heat lamp color matter?

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Humans Birds

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CFL vs LED lighting

Both Same Kelvin

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Difference in Spectral Output

CFL LED

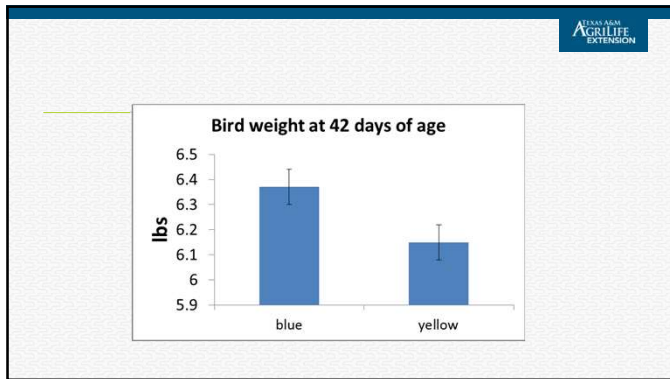
CFL Bulb LED Bulb

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Spectral Output of Each Bulb

Incandescent CFL LED 1 LED 2 LED 3

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**So what do you want for your birds**

- ▶ During the Brood
  - ▶ Warm light (Incandescent, LED, CFL, High Pressure Sodium) 2700-3000 Kelvin
    - ▶ If using heat lamp you are covered
- ▶ After the Brood
  - ▶ Cool Light (LED, CFL) 5000 Kelvin

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