## LIGHT ABATEMENT IN MISSISSIPPI MILLS

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### Outline:

- 1) Definitions: Light Pollution and Light Pollution Abatement
- 2) Past: Outdoor Lighting Bylaw
- 3) Present: The Good and the Bad
- 4) Future: Education Pamphlets & Web Info Bylaw Update

## LIGHT POLLUTION (LP)

Definition: light that is unnecessary OR traveling upward

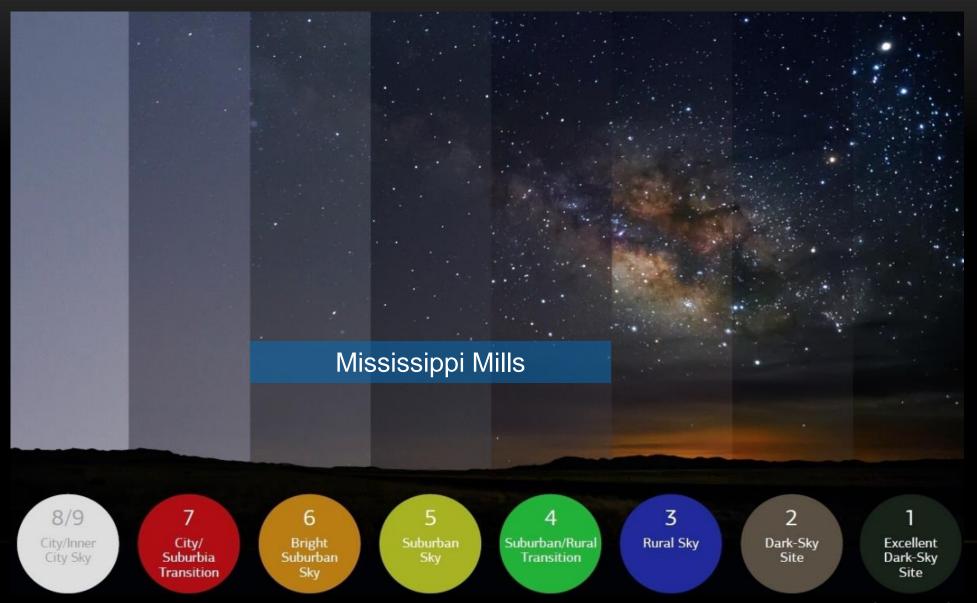
Consequences: wasted energy (\$\$\$), negative health impacts on all forms of life

- Life evolved without artificial light so it's no surprise humans are plagued with <u>sleep disorders</u>
- Studies also show that animals, birds, insects, and even plants are negatively affected

#### More is not better:

- Improper lighting can impair night vision and reduce safety
- Studies also show that more light does <u>not</u> correlate with less crime

# NIGHT SKY ILLUMINATION: THE BORTLE SCALE



Source: Skyglowproject.com

# LIGHT POLLUTION ABATEMENT (LPA)

 Bylaw 03-62 (2003) "Outdoor Illumination" governs road, commercial, & residential lighting

## **HOWEVER:**

- Lack of an update has led to improper LED lighting choices
- Lack of vigilance & education has led to many unshielded fixtures



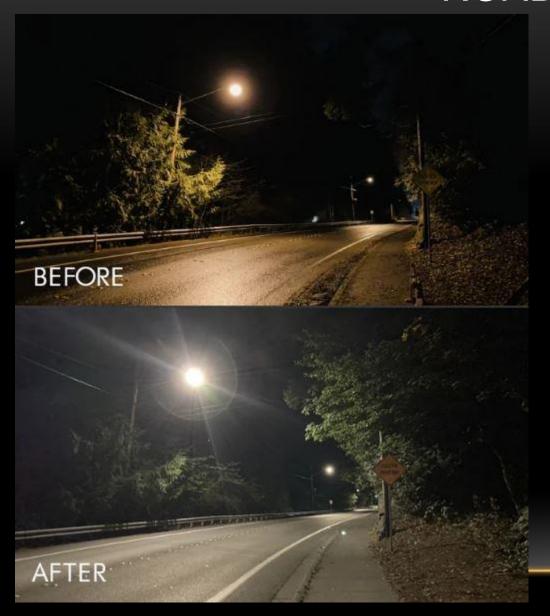
Avoid
Unnecessary
Lighting of the
Night Sky



What you Need to Do: Use Shielded Outdoor Lights and/or Install Motion Sensors on Outdoor Lights.



# ROAD LIGHTING









Lights upward



Warmer yellow



LED luminaire



Full cut off (FCO)



Glare (too blue)

Source: reddit.com



# COMMERCIAL & RESIDENTIAL LIGHTING



Mill Run subdivision – no shielding!





## WHAT WE NEED TO DO

- 1. Improve the Outdoor Illumination bylaw
  - Reduce the glare of the LED road lights
  - Ensure developers use shielded fixtures
  - Restrict decorative lighting

### 2. Education

- Revive the "Good Neighbour Lighting" brochure (perhaps with MVCA)
- Promotion on town website, printed materials, and at local events (with RASC)
- 3. Resources: RASC, Darksky.org, Skyglowproject.com

