

Combating Light Pollution: Architectural Lighting Designs

...

Carolann Kimock

Educating Lighting Designers About Dark Sky Best Practices

Cape Town, South Africa

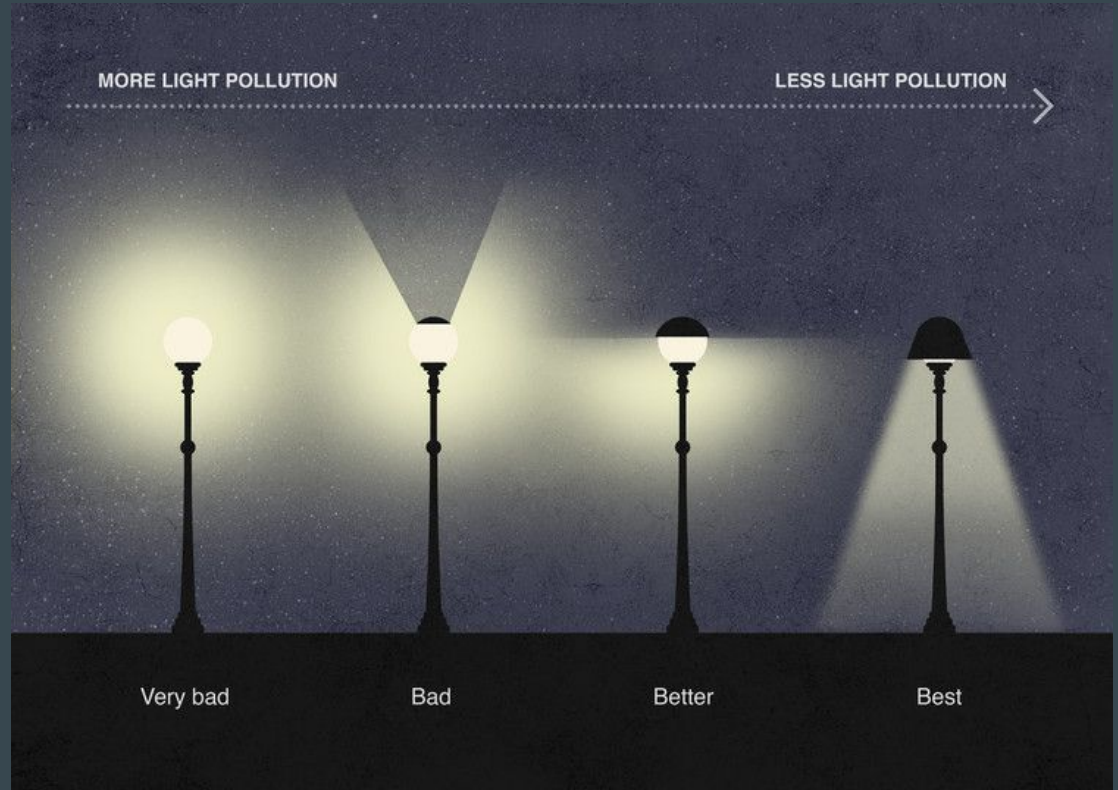


Methodology

- Medium: Video, Advertisement Structured
- Research:
 - Identify crucial design dark sky practices.
 - Gather different perspectives.
 - Determine statistics and implementation practices regarding light pollution reduction.
- Visual Communication

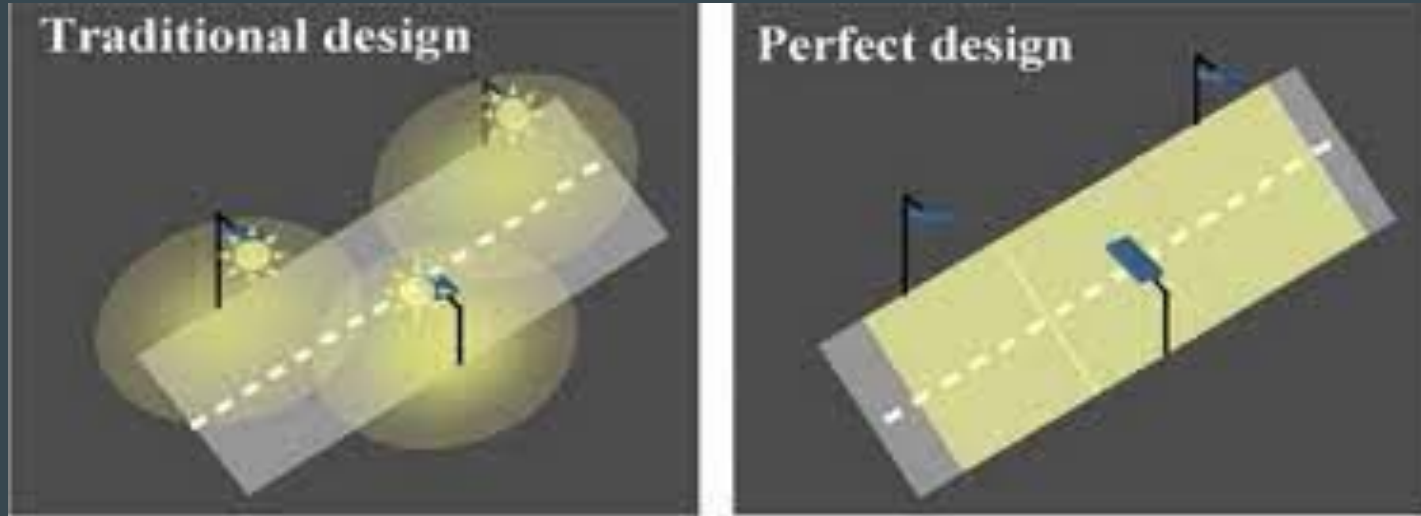
Process and Findings

- Shielding
- Intensity
- Light Temperature
- Motion Detection
- Trespassing Light



Montjoy, V. (2022, February 24).

New Implementation Experiments



Worthington, D. (2013, April 13). *New Street Light Design Eliminates Light Pollution*. ZDNET.

<https://www.zdnet.com/article/new-street-light-design-eliminates-light-pollution/>

Methodology Revisements

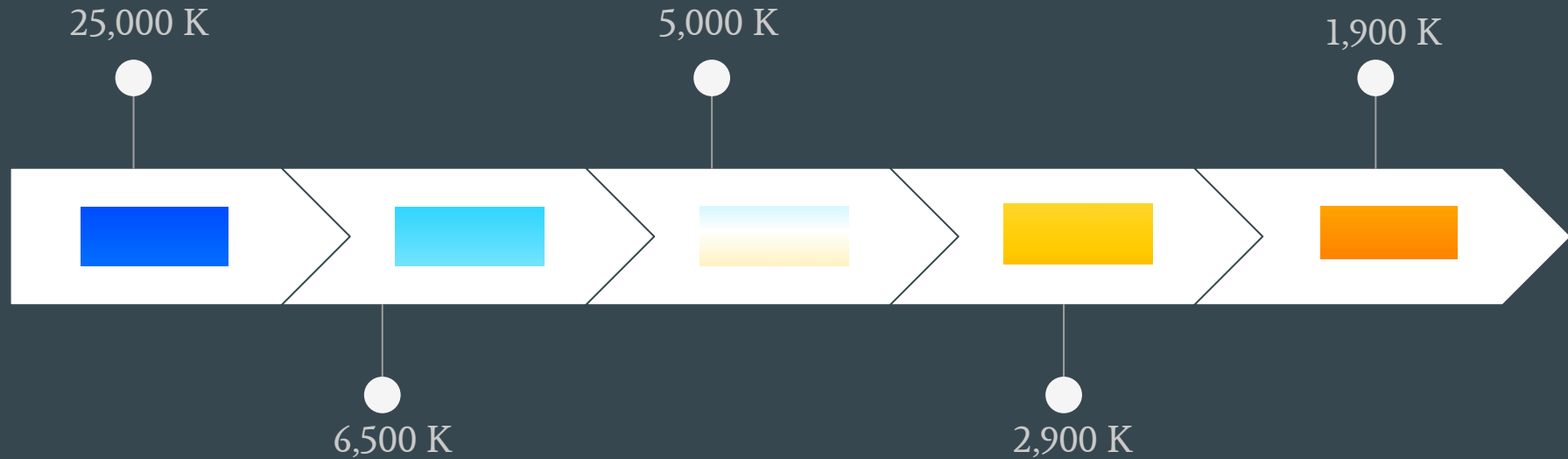
- Additional Medium:
 - Corresponding Handout/Brochure
 - Video Format & Design
 - Audience Engagement
 - Communicating Significance
 - Consider Precautions
-

Addressing the “Why” Factor

**80% of the population
lives under
light pollution**



Health & Color Temperature



References

As “skyglow” grows, study documents glaring global light pollution. www.theepochtimes.com. (2023, January 20).

https://www.theepochtimes.com/as-skyglow-grows-study-documents-glaring-global-light-pollution_4998045.html

Color temperature: Your guide to outdoor lighting. Memphis Outdoor Lighting. (2022, December 12).

<https://www.mid-southnightlights.com/blog/color-temperature-your-guide-to-outdoor-lighting>

Dark Sky Association (2016, September 12). *5 appalling facts about light pollution.* DarkSky International.

<https://www.darksky.org/5-appalling-facts-about-light-pollution/>

May, A. M. (2020, June 5). *Cape Town’s night sky reimagined without pollution during lockdown.* TimesLIVE.

<https://www.timeslive.co.za/news/south-africa/2020-06-05-cape-towns-night-sky-reimagined-without-pollution-during-lockdown/>

Montjoy, V. (2022, February 24). *How to reduce light pollution with street light design?.* ArchDaily.

<https://www.archdaily.com/977131/how-to-reduce-light-pollution-with-street-light-design>

National Geographic Society. (n.d.). *Light pollution.* National Geographic Education.

<https://education.nationalgeographic.org/resource/light-pollution/>

Worthington, D. (2013, April 13). *New Street Light Design Eliminates Light Pollution.* ZDNET.

<https://www.zdnet.com/article/new-street-light-design-eliminates-light-pollution/>

References (Interviews)

Bastek, S., & Kimock, C. (2023, June 22). Design Profession Discussion Interview. Personal.

Chandanala, T., Chin, L., Kimock, C., McCracken, O., Menon, N., & Sterkeson, E. (2023, June 15). Collaboration on Research Interview. Personal.

Haney, C., & Kimock, C. (2023, July 2) Concerns Over Less Light Interview. Personal.