

Losing the Dark

Short Film

Presented by:

The International Dark-Sky Association

in collaboration with

Loch Ness Productions and Starmap

<https://darksky.org/resources/videos/losing-the-dark/>



<https://www.youtube.com/watch?v=dd82jaztFlo>

DarkSky International

Grand Lake as a Dark Sky Community



Kim White

Community Development Director Town of Grand Lake



DarkSky
INTERNATIONAL

WHO IS



DarkSky
INTERNATIONAL

The **DarkSky International** protects the night from light pollution and promotes responsible outdoor lighting.

HB22-1382

Support Dark Sky Designation and Promotion in Colorado

Mentorship Program

The Town received 70 hours of free consultation to help town staff prepare an application to become a Dark Sky Community



Mentor

“Astro” Mark Laurin

Coalition for the Stars

Outreach Events

Lighting Inventory

Sky Quality readings

Public lighting meetings

Lighting Management Plan





Projected Outcomes

- Reduced energy consumption, cost savings, and increased property value
- Increased local and regional quality of life through enhanced health and well-being, cultural heritage, and sense of place
- Increased awareness of the value of visible night skies and their benefit to local wildlife and ecology
- International Dark Sky Community Certification



Light pollution is increasing at 9.6% per year*

Grand Lake

Lightpollutionmap.info



2012



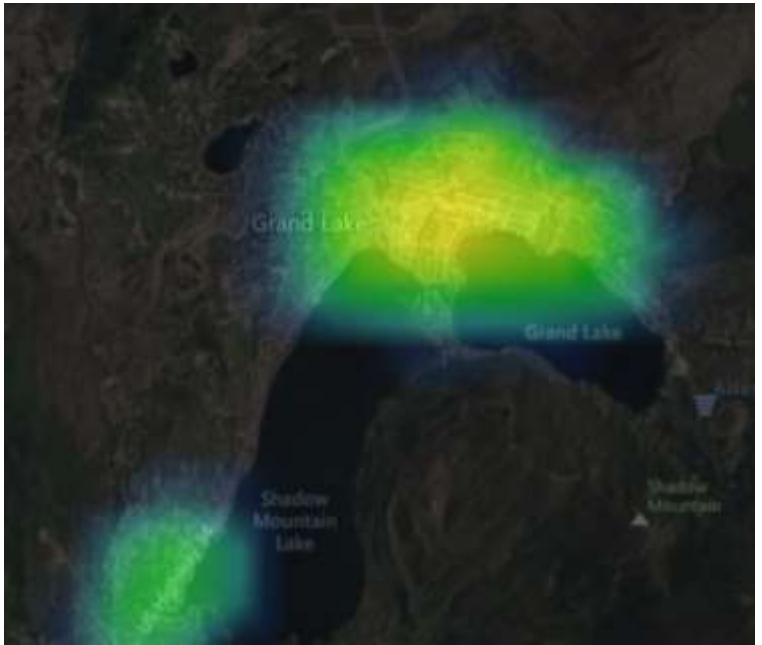
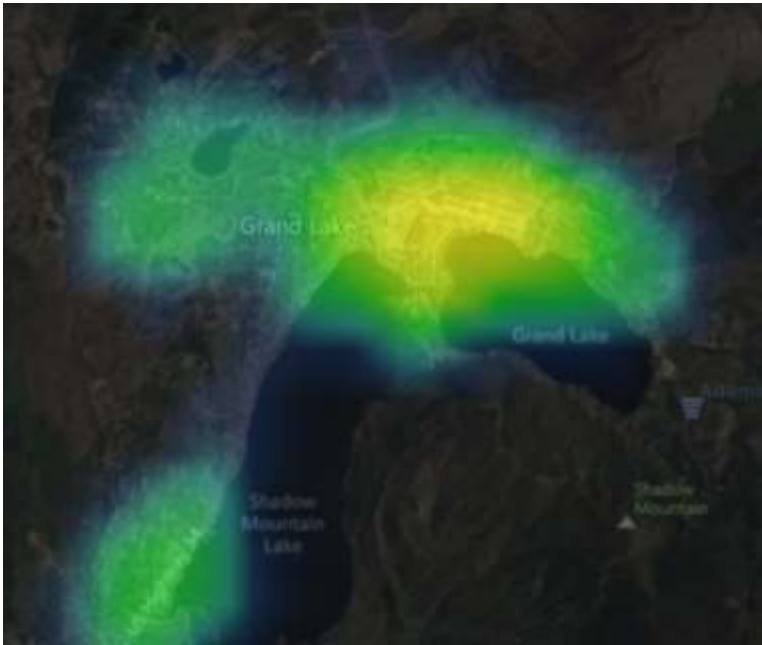
2019



2021

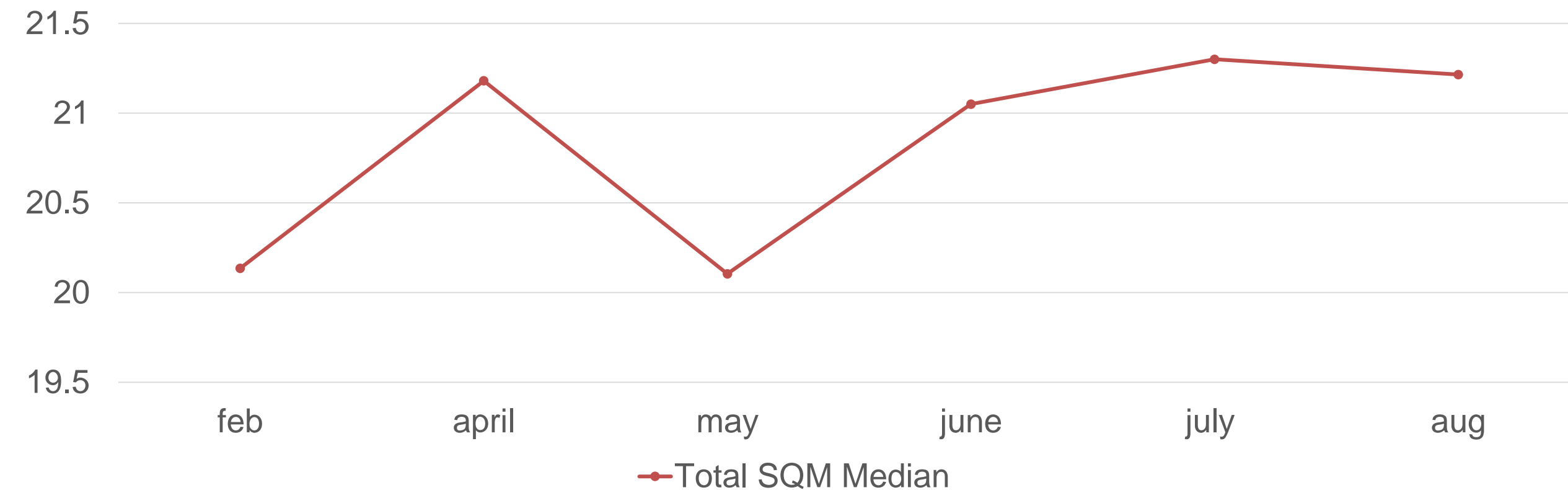


2023



HOW DARK ARE YOUR SKIES?

DARK SKY METER





WE ARE YOU ONE OF THE LUCKY ONES

**ONLY 2 OUT OF 10 PEOPLE ON EARTH CAN SEE THE
MILKY WAY**

99% OF THE USA AND EUROPE

live under light polluted skies

WE CAN MAKE A
DIFFERENCE

LIGHT POLLUTION

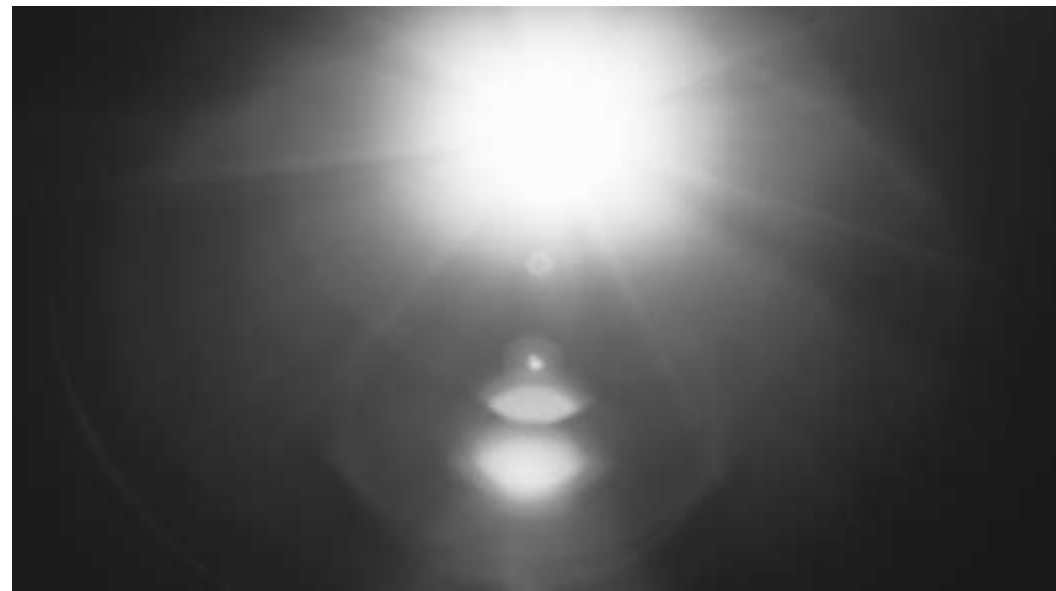
Has a simple solution: better lighting design



LIGHT POLLUTION



LIGHT TRESPASS



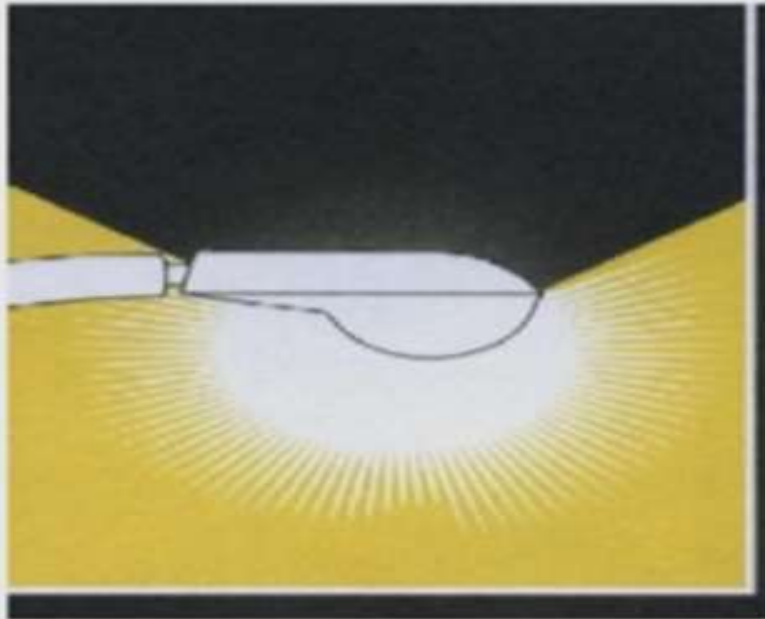
GLARE



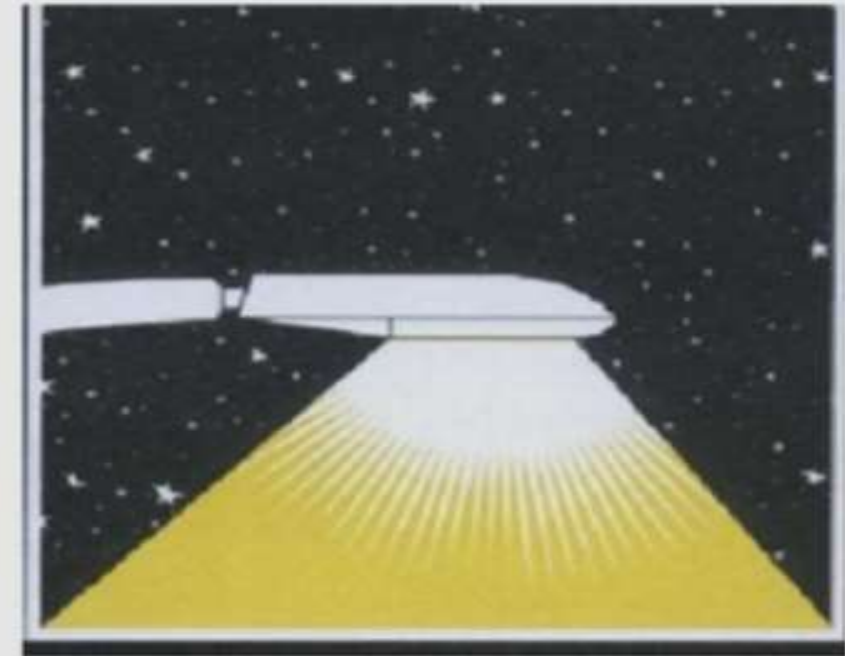
SKYGLOW

Shielded Luminaires

SHIELDING



AIM LIGHTS DOWN



WHERE TO FIND THIS LIGHTING?

DarkSky Approved program



Certified by [DarkSky.org](https://www.darksky.org)

KELVIN

(CORRELATED COLOR TEMPERATURE)

2700K

Warm White

- 2700-3000K
- Most similar to incandescents
- Inviting, relaxing

3000K

Bright White

- 3500-4100K
- Energetic, lively
- Good for kitchens and workspaces

4500K

Daylight

- 5500-6500K
- Crisp and refreshing
- Good for reading

6500K

CORRELATED COLOR TEMPERATURE (CCT)



INTENSITY AND WARRANTING



**MYTH: MORE
LIGHTING IS SAFER**



**REALITY: WELL DESIGNED
LIGHTING IS SAFER**



Dark Sky Community Certification Checklist (for submission)

Letters of Support

Lighting Management Plan

Public Lighting Inventory

Quarterly meetings of Coalition of the Stars

Documentation of new construction after LMP adoption OR

Sky Quality program is established (continuous reader)

Ensure all Town-owned fixtures are in compliance by 2030

2 dark-sky awareness events per year AND/OR

Inclusion of dark-sky education in local school curricula.

Ordinance items

Community Commitment

Enforcement of lighting management plan

Full shielding

Fixtures over 1000 lumens (100w)

Light source temp.

NTE 3000K

Total site limits

Limits on lumens/acre

Over-lighting policy

No more than 10%

New Public lighting

Must prove necessary & have
adaptive control/curfew

Lit Signage

1st hour before sunrise and after sunset NTE 100nit &
on only during activity/open hours & NTE 200sf

Outdoor recreation

Curfew 1 hr after game end & lighting on play surface and stands only
& ANSI/IES RP-6 guidelines followed & timers are installed

Amortization

10 year private & 5 year Public period to comply

Appendix

Exhibit A- Draft Lighting ordinance with highlights indicating minimal IDSC requirements

Exhibit B – Checklist provided by DSI for application into IDSC

Exhibit C- Current ToGL code pertaining to Dark Sky lighting