

## **Designers Lighting Forum**

Light + Justice in Practice
Strategies & Case Studies

Edward Bartholomew & Lya Shaffer Osborn (LightJustice.org)

March 20, 2024







Credit(s) earned on completion of this course will be reported to AIA CES for AIA members. Certificates of Completion for both AIA members and non-AIA members are available upon request.

This course is registered with AIA CES for continuing professional education. As such, it does not include content that may be deemed or construed to be an approval or endorsement by the AIA of any

material of construction or any method or manner of handling, using, distributing, or dealing in any material or product.

Questions related to specific materials, methods, and services will be addressed at the conclusion of this presentation.







# Light + Justice

Everyone deserves good lighting and beneficial darkness



### What is Light Justice?

Thoughtfully designed and regularly maintained lighting is too often a signifier of prosperity. Under-resourced communities frequently endure inappropriate and even oppressive lighting, which in turn is detrimental to their well-being.

#### **Curators:**

Edward Bartholomew, Mark Loeffler, Lya Shaffer Osborn & Richard Muthuma

The lighting industry has both the obligation and opportunity to improve the visual experience of communities which historically have not been afforded adequate lighting attention and technology. Recognition of this responsibility, and curiosity around how lighting can contribute to greater social and environmental equity, is where light justice begins.





# Learning Objectives

At the end of this course, participants will be able to:

- 1. Recognize the impact of unjust lighting practices on vulnerable occupants
- 2. Learn various methods for addressing lighting inequities in their projects through case studies
- 3. Address the mechanisms that contribute to lighting injustice and offer strategies to "redesign" projects which create a more just visual environment
- 4. Examine current lighting practices and awards in order to deepen current lighting conversations and design equitable quality lighting for all













- Low status with no civic power
- Non-professional, low education
- Little or no political representation
- Lack of prioritization over roads and infrastructure
- Immigrant
- Non-English speaking
- Lower income
- Rlack Latina Acian populations

Breanna Taylor Nighttime Protest Seattle, WA. 2020

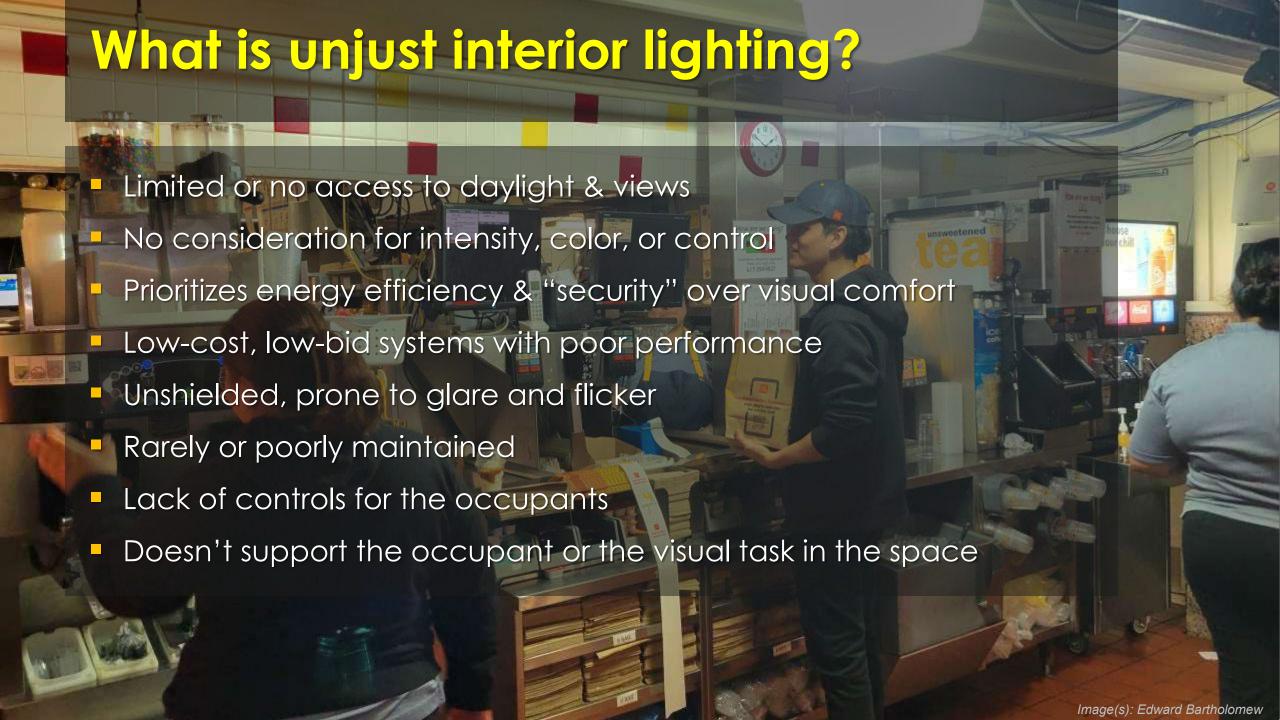
## Who defines "good" lighting?

- Lighting Designer: What best serves the occupants?
- Electrical Contractor: What is cheap and easy to install?
- Distributor: What moves the most product at the best margin?
- Manufacturer & Sales Reps: What sells and satisfies the customer and your reputation?
- Utility: What saves energy?
- Building Operations: What is the easiest and cheapest system to maintain?
- Occupant: What supports work, productivity, health and wellbeing?
- Community: What supports placemaking, enhances neighborhood value, creates safe and secure environments for all



## What is unjust exterior lighting?

- Hyper-surveillance
- Nocturnal behavior modification or suppression.
- Institutionalized discrimination & negligence
- Visually intrusive, and incoherent
- unshielded, glary
- Unhealthy for people and nature
- Prioritizes streets and cars
- Lighting that prevents any positive nighttime behavior such as social gatherings.
- It produces constant light trespasses into residence windows





- 1. Engage
- 2. Educate
- 3. Empower
- 4. Deploy



## **SIGNAL STATION NORTH**

Engage Educate Empower Deploy

#### **Project Type**

District Lighting Plan and Public Space Engagement Initiative

#### Location

Central Baltimore, MD

#### **Participants**

Flux Studio (Lighting Design)
Neighborhood Design Center (Project Lead)
Central Baltimore Community Members

#### **Approaches**

- 1. Community gathering #1 (type, description)
- 2. Charette (type, description)

#### **Outcomes**

- 1. Public space lighting plan
- 2. Creative lighting installations
- 3. Practical community tools











**Engage** Educate **Empower Deploy** 

Project Type Multi-Family Housing

Location Dallas, TX

#### **Participants**

buildingcommunityWORKSHOP

CitySquare Housing

Communities Foundation of Texas

Metro Dallas Homeless Alliance

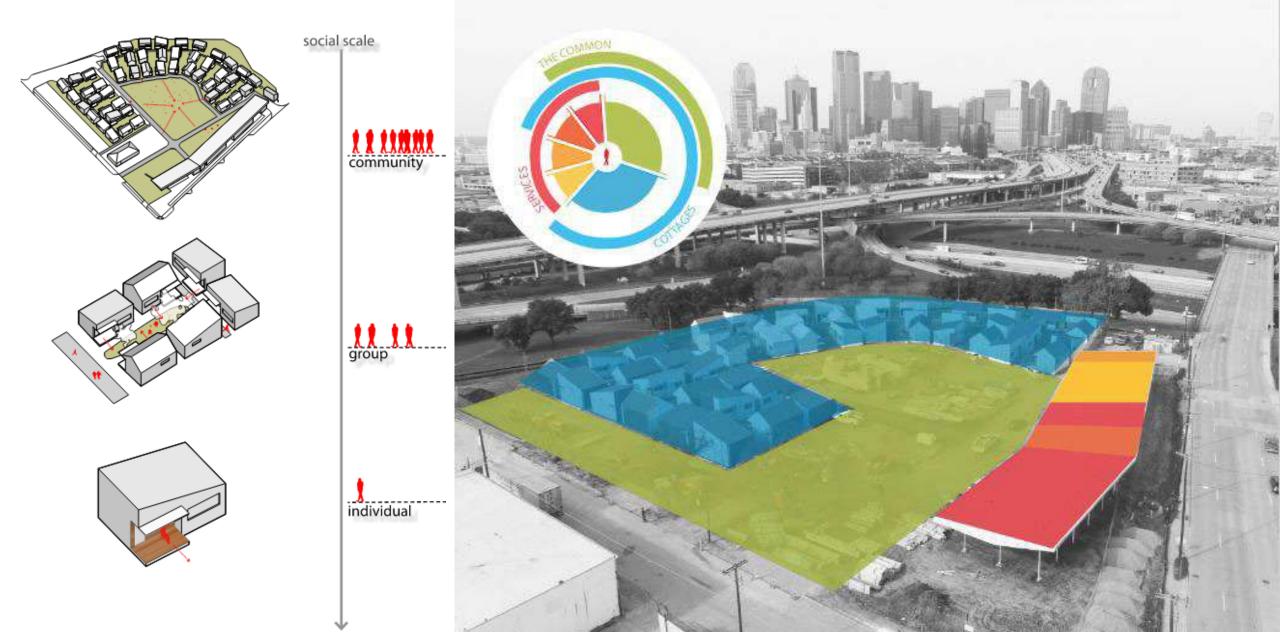
Approaches
Collaboration with support service professional, and 54 unhoused individuals

#### **Outcomes**

Cottages at Hickory Crossing provides permanent supportive housing and support services for the fifty most chronic cases of homelessness in Dallas.

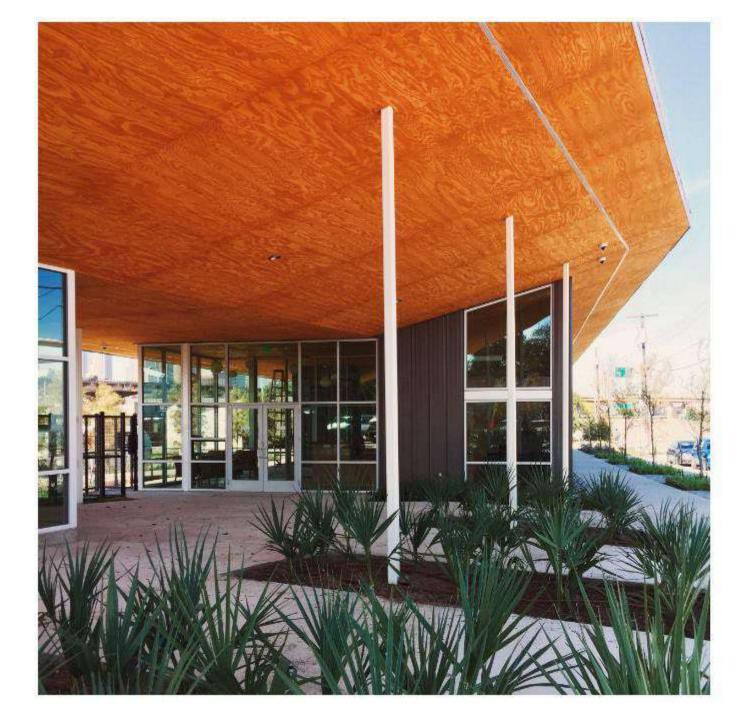






### THE SCALE

Transitional exterior spaces enable one to navigate through varying spatial experiences, from the more secluded porch to the shared courtyard, before reaching the common green.







Image(s): bcWORKSHOP

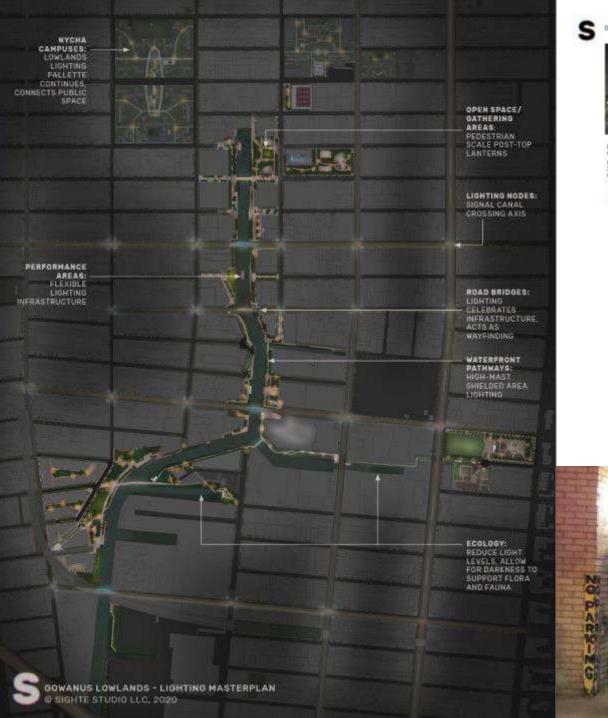




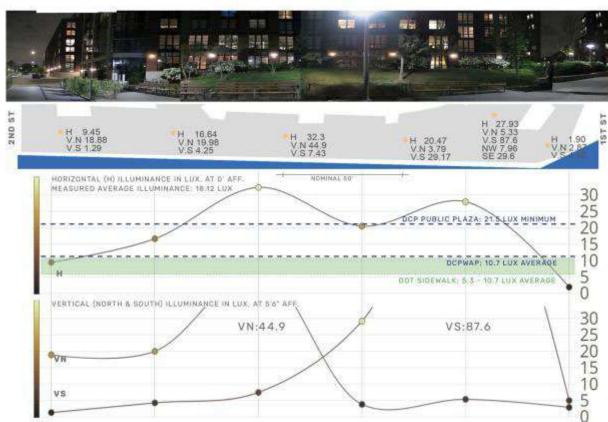




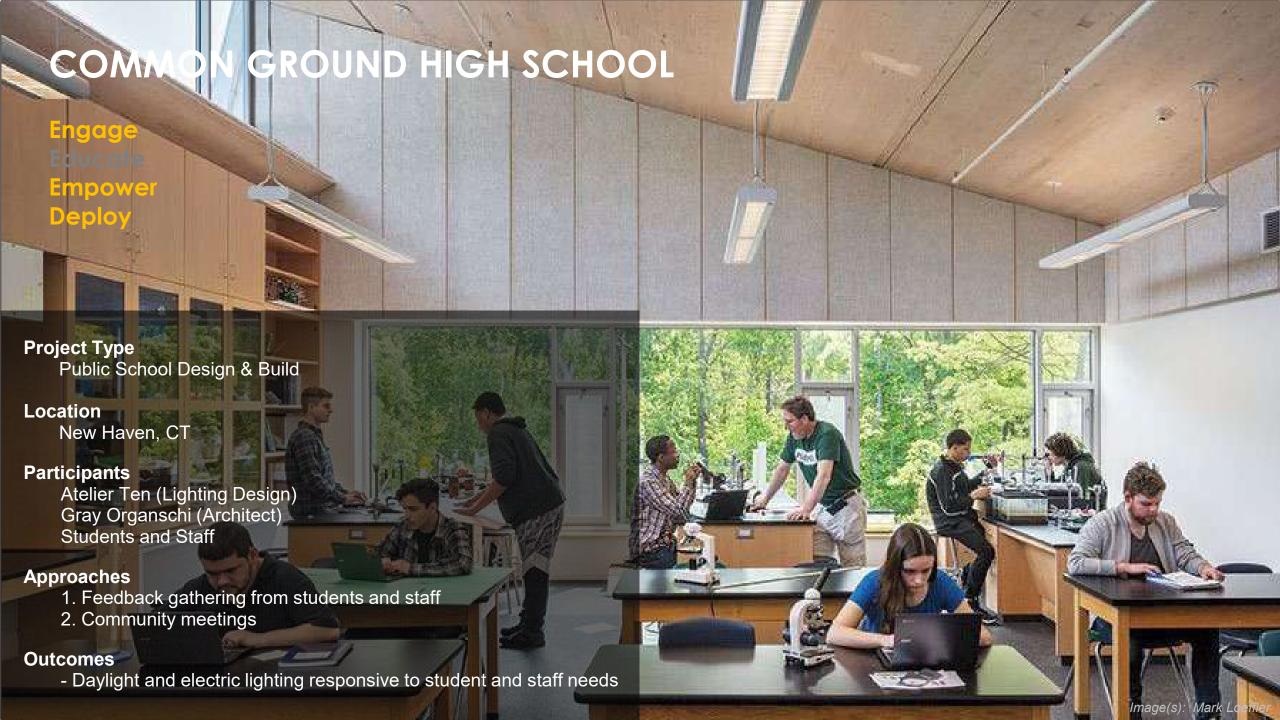




GOWANUS ATLAS LIGHTING REPORT PREPARED BY SIGHTE STUDIO









## PRESTEIGNE AND NORTON

Engage Educate Empower Deploy

#### **Project Type**

Community Lighting Masterplan

#### Location

Towns of Presteigne & Norton, Wales

#### **Participants**

DarkSource (Lighting Design)
Local Amateur Astronomers & Dark Sky Advocates
Presteigne and Norton Town Councils
Community Members

#### **Approaches**

- 1. Community gatherings, town halls
- 2. Full-scale mockups and long windows of opportunity for feedback

#### **Outcomes**

- Full town street relighting
- Designation as first Dark Sky village in Wales, setting precedent



























Existing pole lights off in hazardous stairwell



Lighting turned off contributes to desirable sleeping place



Lighting from building windows influences streetscape



#### **Comments from Seattle Police Department**

When thinking of lighting and safety, a few things to keep in mind are:

- Lighting helps an individual observe their surroundings and respond to potential threats.
- . Pathways or pedestrian connectors should be illuminated to the point where faces of pedestrians can be observed.
- . Poor lighting, whether too bright or not bright enough can diminish safety.
- · Quality of lighting is as important as the amount of lighting.

(Barb Biondo, Crime Prevention Coordinator)



Bus stop shelters are prominent points of focus in the pedestrian right of way





Some bus stop shelters rely heavily on external sources, others have internal lights



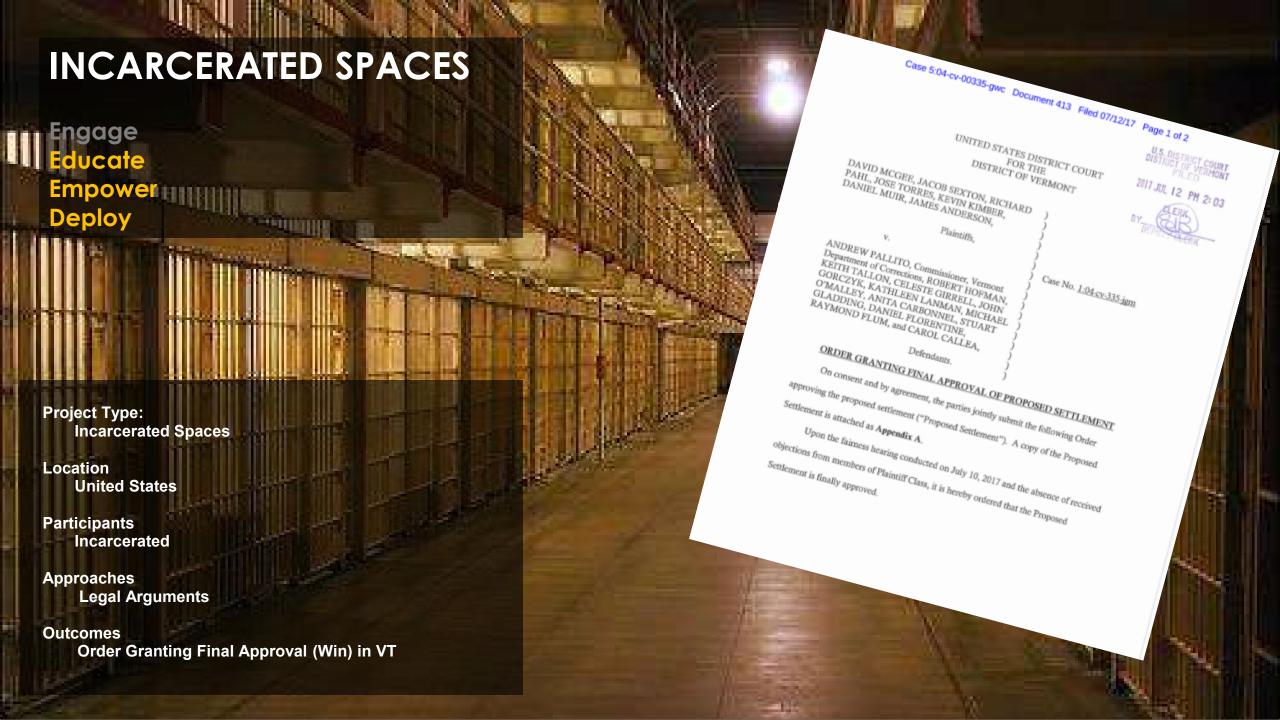


Internal lights are of various types, some lighting the roof, others lighting glass patterns - all are direct view and have significant glare.

#### 07 COMMUNITY FEEDBACK

Note, this is an unafficial diagram and subject to change. There are many inter-related entities involved in the decision-making process for projects in the C-1D, and many more than are identified here.







Article Published: 09 October 2023

# Day and night light exposure are associated with psychiatric disorders: an objective light study in >85,000 people

<u>Angus C. Burns</u> M. <u>Daniel P. Windred, Martin K. Rutter, Patrick Olivier, Céline Vetter, Richa Saxena, Jacqueline M. Lane, <u>Andrew J. K. Phillips</u> & <u>Sean W. Cain</u></u>

Nature Mental Health (2023) | Cite this article

334 Accesses 1136 Altmetric Metrics

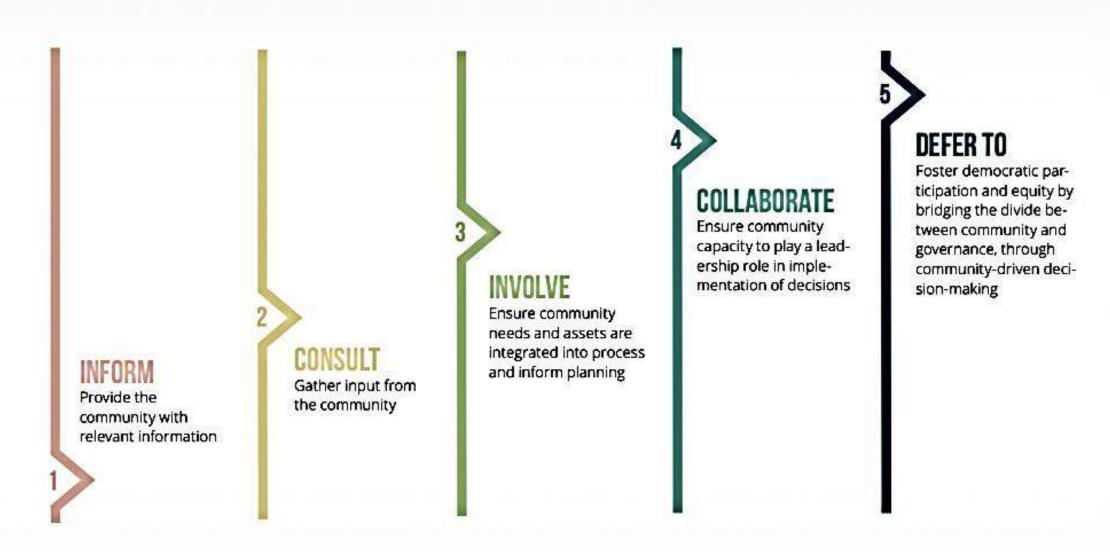




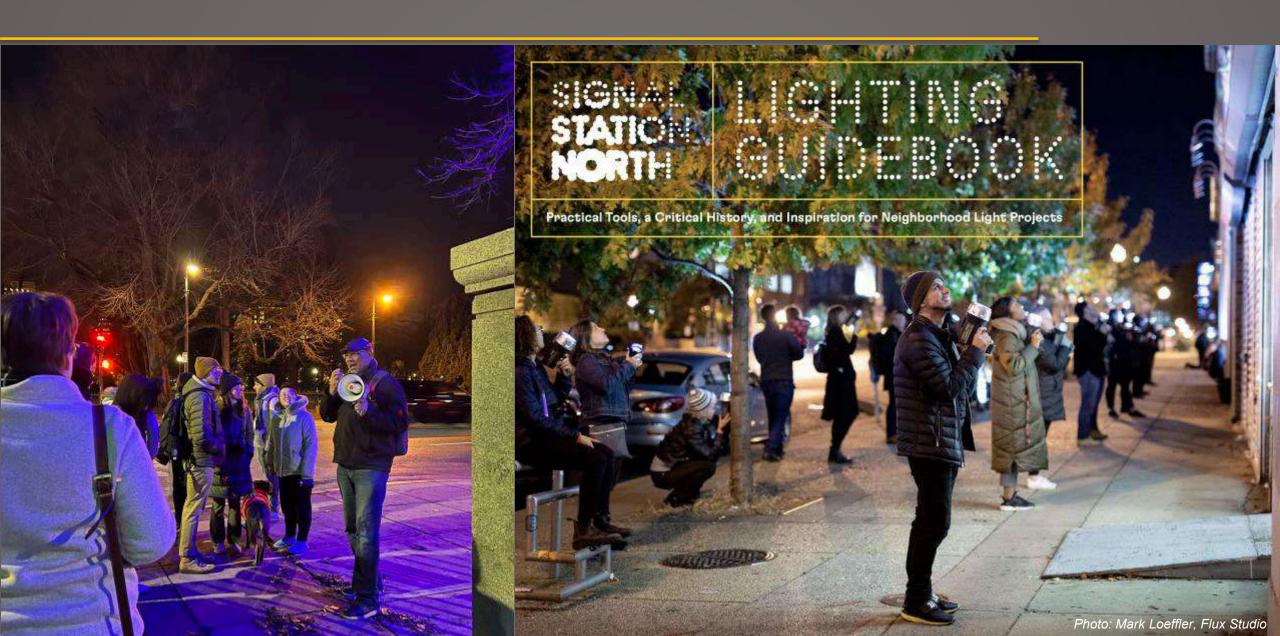
## Engage



## NAACP Guidelines for Equitable Community Involvement in Building & Development Projects and Policies



## Educate



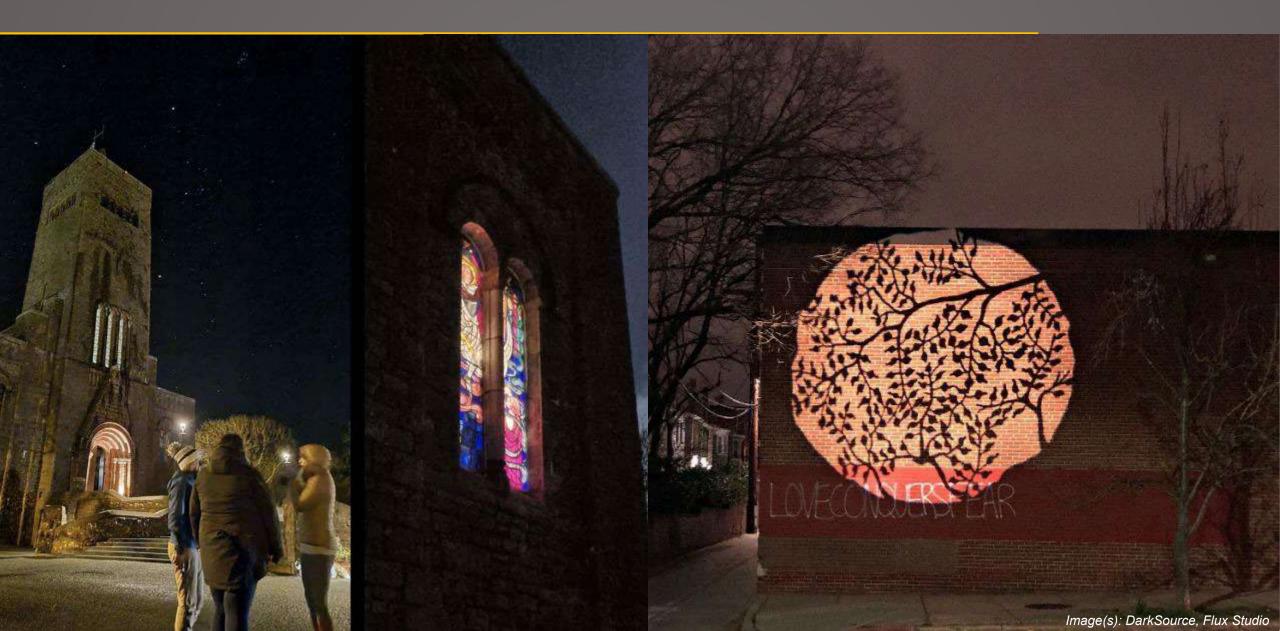


## Empower





## Deploy





**Project Type** 

School Design & Build
Pilot program to advance standards for materials transparency in public schools

#### Location

Taunton, MA

**Deploy** 

#### **Participants**

GGD Consulting Engineers (Electrical Engineers)
HMFH Architects (Architect)

#### Approaches

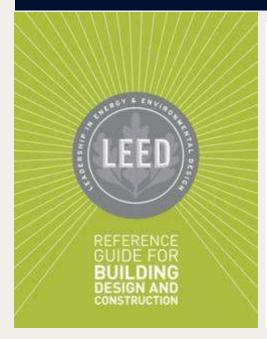
- Consider impact of design decisions on people and environment along the supply chain
- Educational and sustainability visioning with the community
- Workshops

#### Outcomes

Materials transparency documentation created new template for all projects moving forward MA School Building Authority updated materials policy, minimum requirements now must be met



## DESIGN AS ACTIVISM EDUCATING FOR CHANGE





Social equity within the community

Credit | 1 point

Option 1. Complete the SEED
Evaluator Parts 1 and 2 to identify
and address at least one critical
issue in the social or economic
category









## Call to Action

#### Individual

Share knowledge as a citizen designer

#### Grassroots

Offer expertise; collaborate locally

#### **Design Firms**

Look for low-bid projects; find opportunities to engage, educate, and empower, impacted communities and occupants

#### Industry

Support and celebrate equitable & just lighting projects in underserved communities

## **ENGAGE**

## **EDUCATE**

## **EMPOWER**

### **DEPLOY**











LIGHT + JUSTICE SYNPOSIUM
INTERIOR SPACES



ies.org/events



This concludes The American Institute of Architects Continuing Education Systems Course

