

Skärvor

Steven Polchinski, Mitchell Geis,
Daniel Pund, Jordan Corona

Product Problem and Design Solution

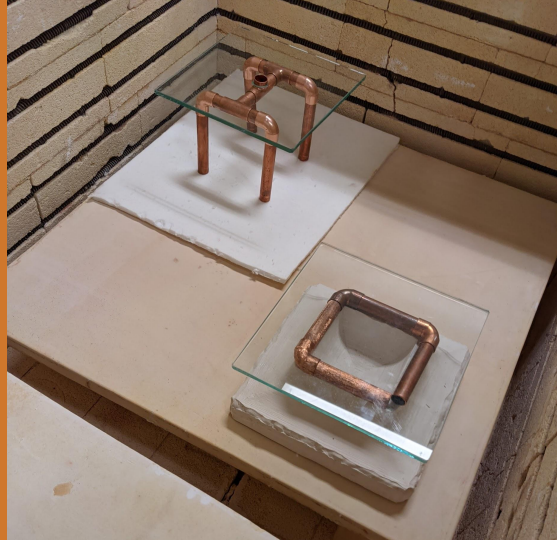
Project problem:

Desire to see light interact with a glass body --
(copper-based abnormality in the glassmaking
process.)

Design solution:

Original: Slump sheet glass sheet over industrial
structure made from copper pipes and fittings.

Final: Light fixture of blown glass coating a
copper wire mesh.

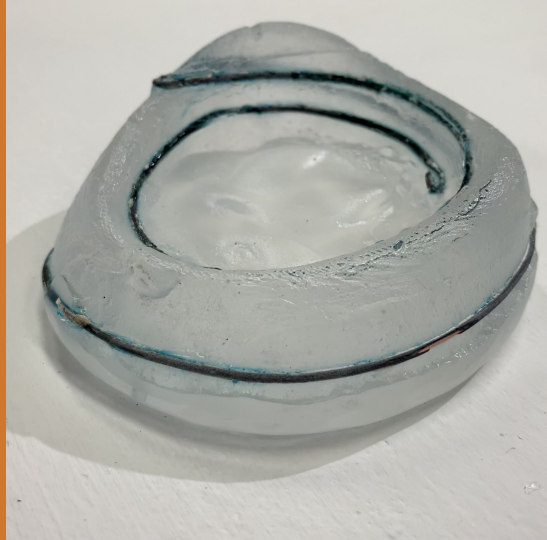


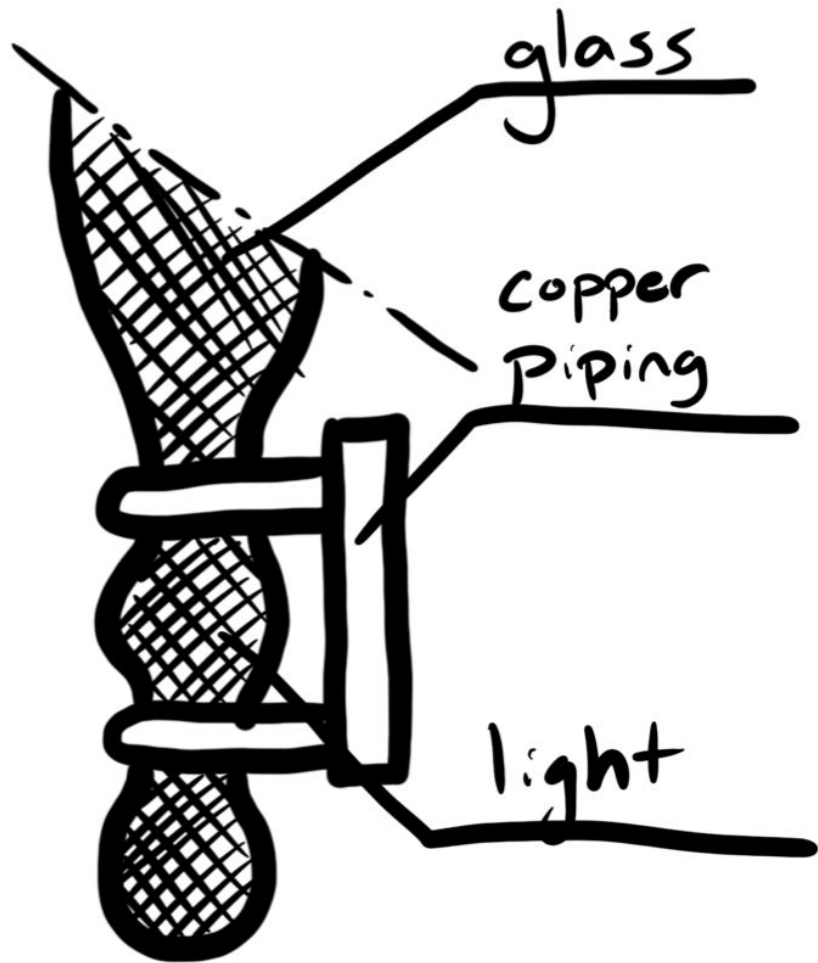
Research images

Test samples - interest in interaction between copper and glass

- Color change
 1. Red
 2. Green
- Pattern change
 1. Flow down
 2. Flow out

Project goal: Integrate the effects of copper in glass into a blown piece





Test Sample #1

Sample: Test effects of baking soda on the glass when applied between layers.

- Baking soda yielded a crackled look
- Lack of coloration due to absence of copper



Test Sample #2

Sample: Experiment with copper mesh on the outside of the glass.

- Mesh gave glass an interesting texture
- Lack of color was somewhat disappointing



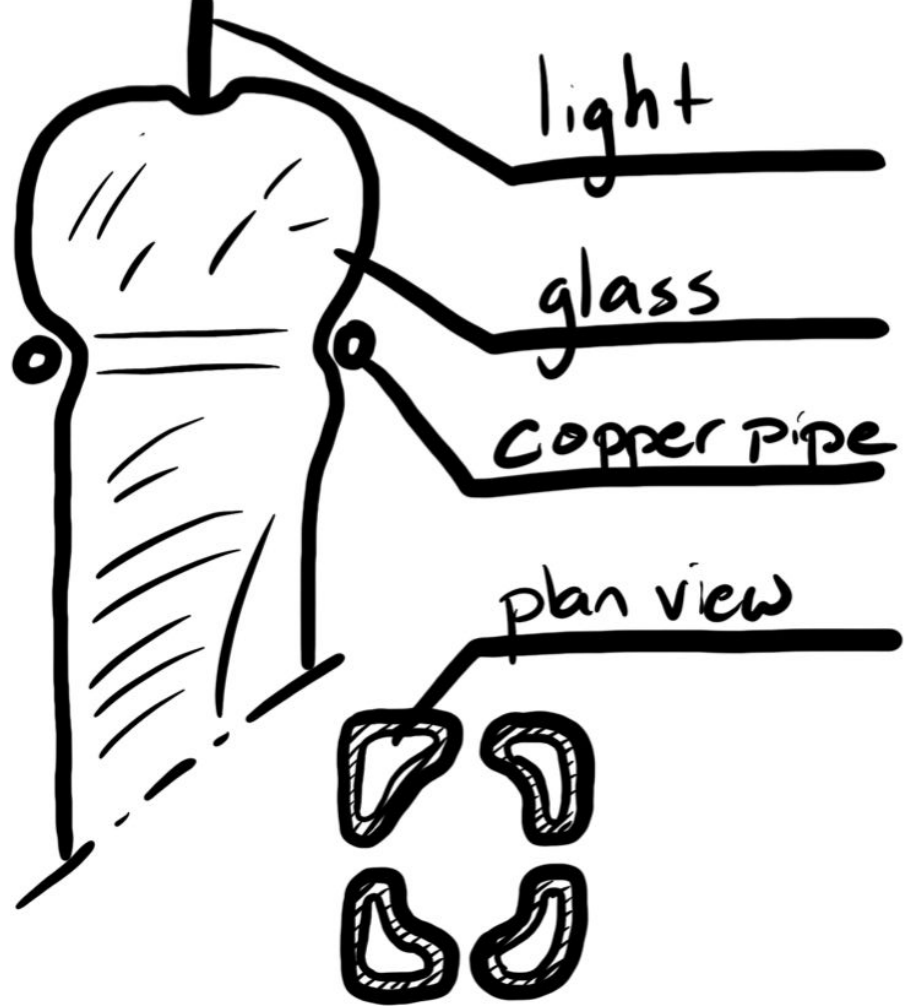
Test Sample #3

Sample: Gauge effects of copper mesh when encased between layers of glass.

- Green color, very cool and pleasant
- Color concentrated in top and bottom of piece







Final Product Creation



Final Product Process

Final design: Fixture of four blown glass shapes.

Hot Shop Process:

1. A layer of copper mesh was applied between gathers
2. Glass then blown into a premade mold.

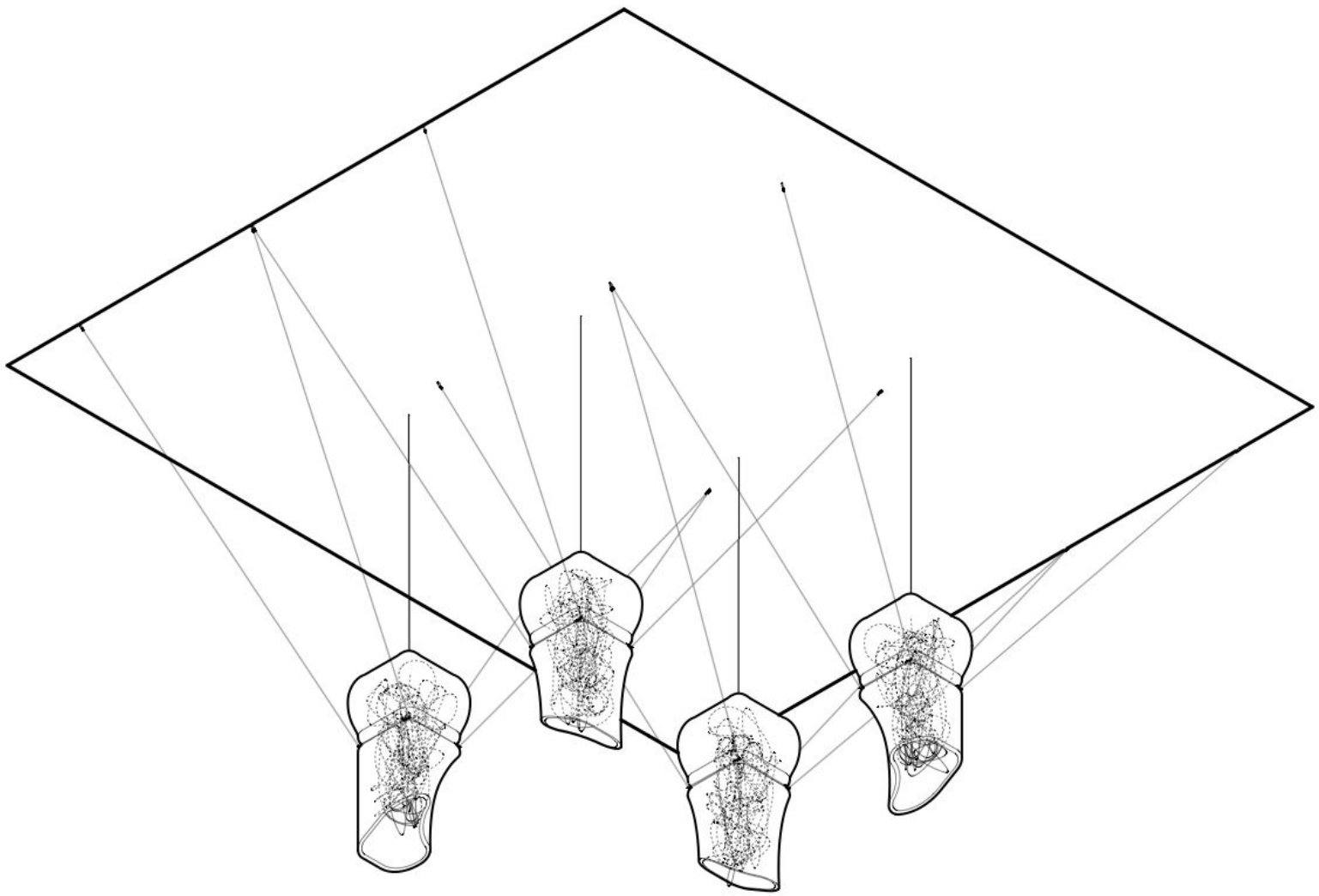
Cold Shop Process:

1. Diamond Saw: Pieces cut at diagonal angle.
2. Diamond Drill: Hole drilled into top for electrical wiring.
3. Grindstones/Belt Sanders: Rough surfaces brought up to polish









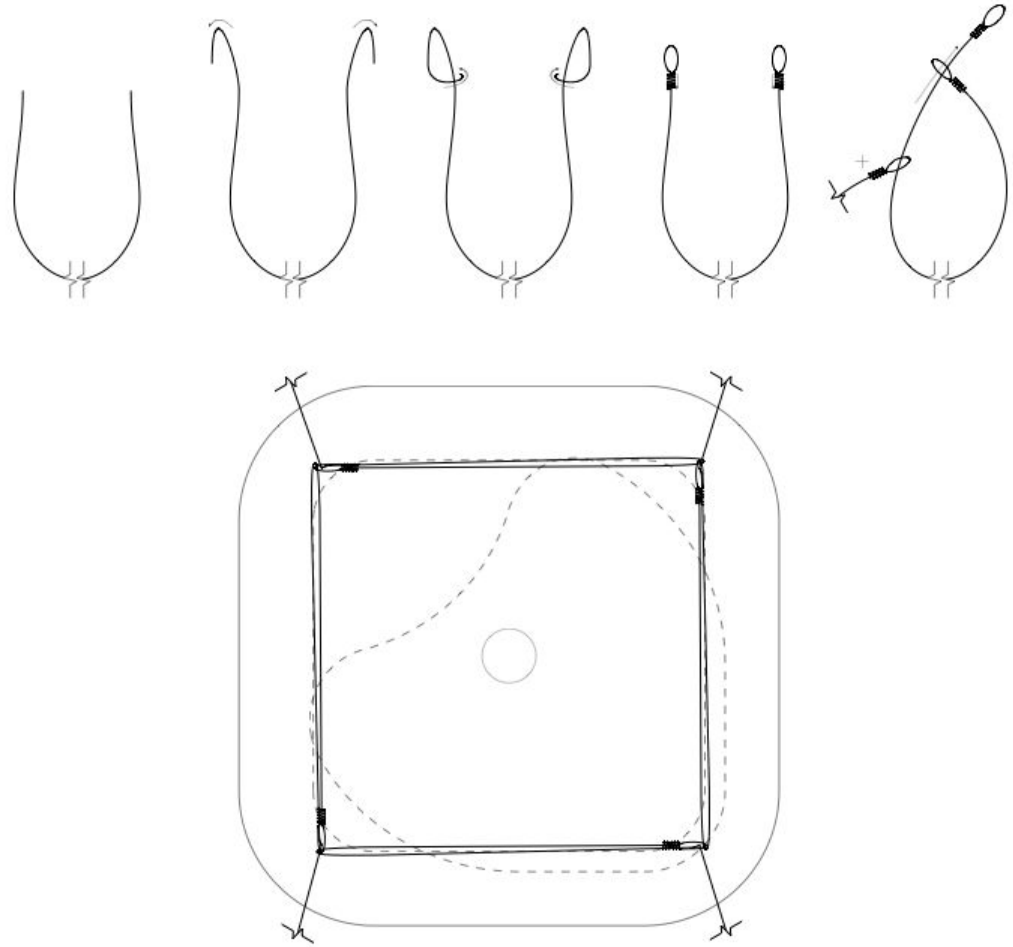
Product Detail

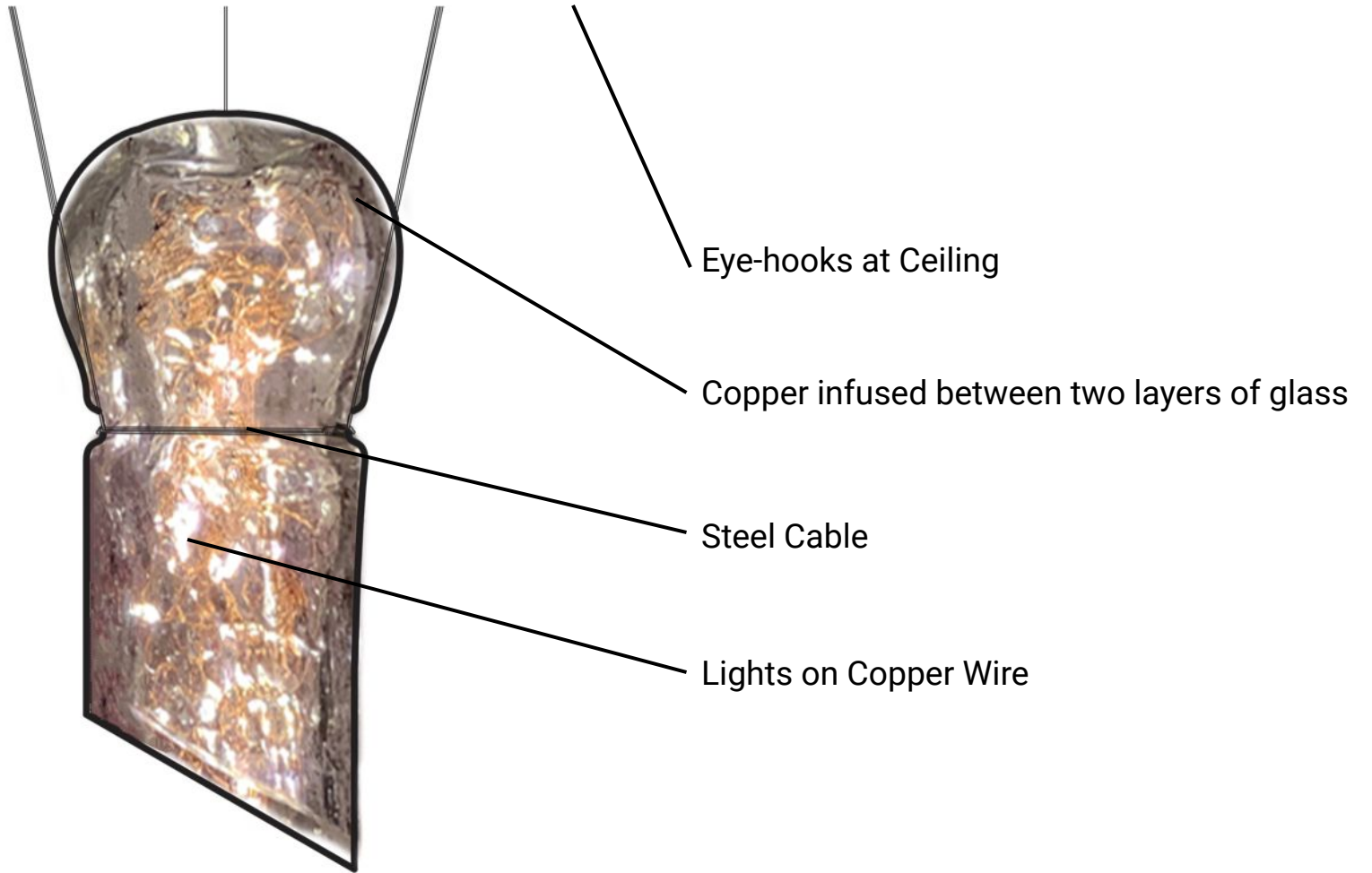
Hanging Process:

- Suspended by four wires that wrap around the indent in the glass.
- Wires looped on each end.
 - One looped end passes through bend in adjacent cables.
 - Other looped end connects to the ceiling.
- Forms a “collar” around the divot.

Setup Process:

- Arranged so that the concave surfaces faced inwards
- Suspended overhead via steel cables
- Lights installed and hooked up to power source





Eye-hooks at Ceiling

Copper infused between two layers of glass

Steel Cable

Lights on Copper Wire

Location and Scale

Elegant, luxury piece

- Upscale restaurant (sectional chandelier over the dining tables)
- Ideal position near walls - allows viewer to observe the scattered light
- Individual pieces not particularly large
 - Ideally should hang lower than other, larger light fixtures would. (Head level when standing)

