9ft in Common
Light for an Alley

Design Proposal

Martin Boyle

Brief:

Investigate more sustainable options for outdoor alley lighting, taking a maker-led approach to design and function. The results can be trialled and tested in Greenore Street Alley.



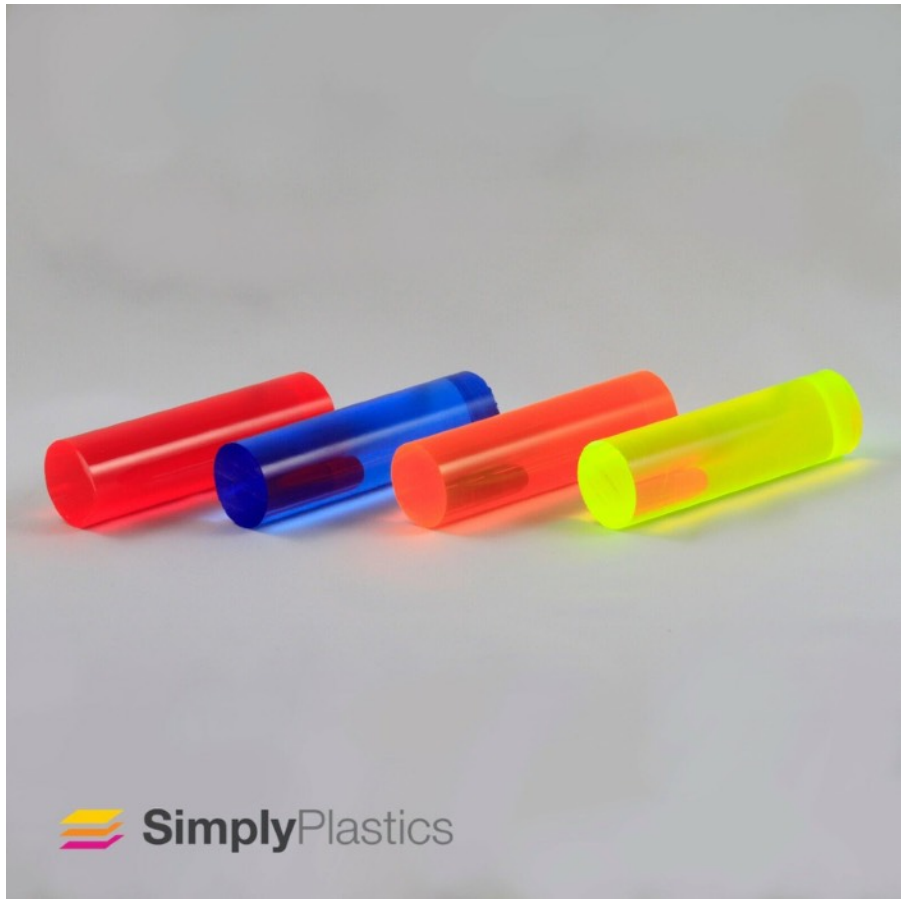


Prototype 1 Looking at the potential of Acrylic Plastic Perspex Rod
Colours - Red, Amber, Yellow

Exploring lights that could appear ‘on’ during the day and light up at night based on sun shine levels using LED lights and solar panel.


SimplyPlastics


SimplyPlastics



Fluorescent rods will naturally fluoresce in normal light. The pigments can also be u.V active so that when illuminated in u.V light they will glow like neon

Conditions	Outdoors
	Power source
	Durable
	Current time of year - low light

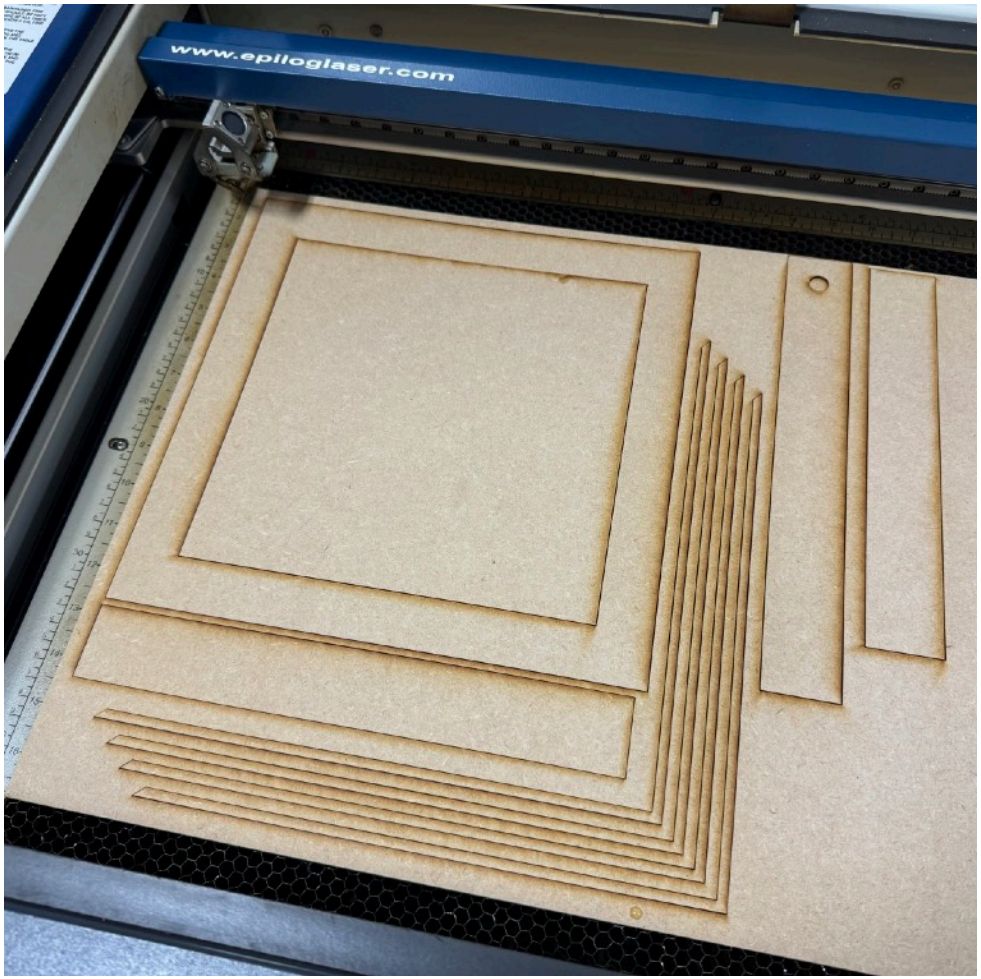
Research	Test out possibilities with acrylic rods.
	Make prototypes that explore design options.
	Explore options of a light using solar panel.
	Explore fluorescent pieces with no power.
	Connecting power for one piece using electricity from my house.

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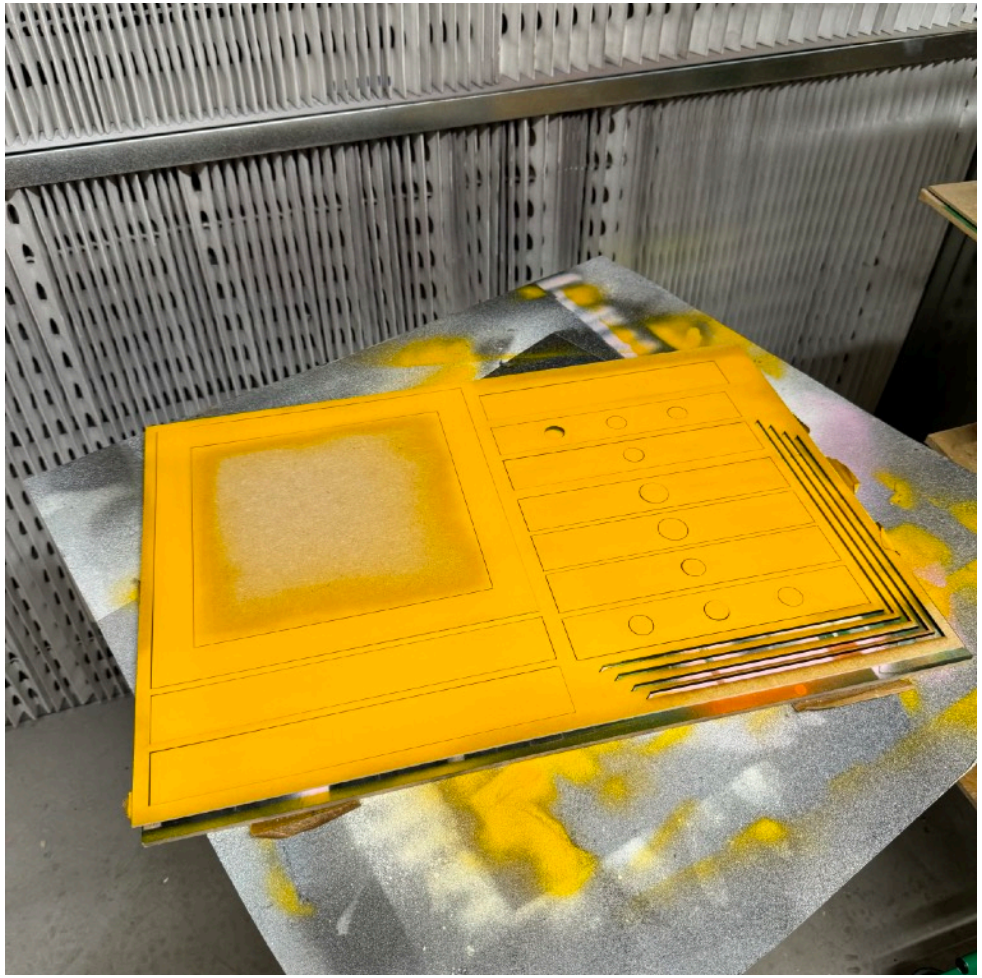
01. Research

Make a lightbox maquette to test out possibilities of acrylic rods.





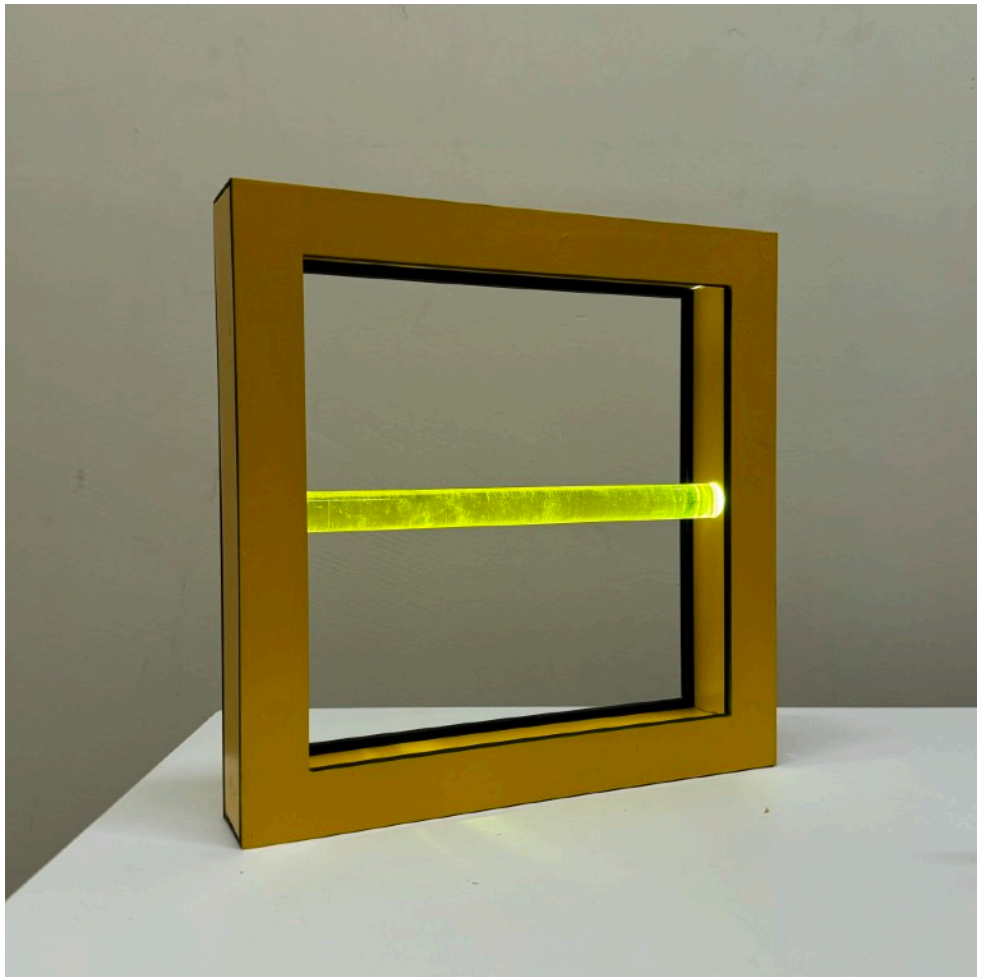
Lightbox maquette to test out possibilities
of acrylic rods using laser cutter







Lightbox maquette in natural light with no electrical power



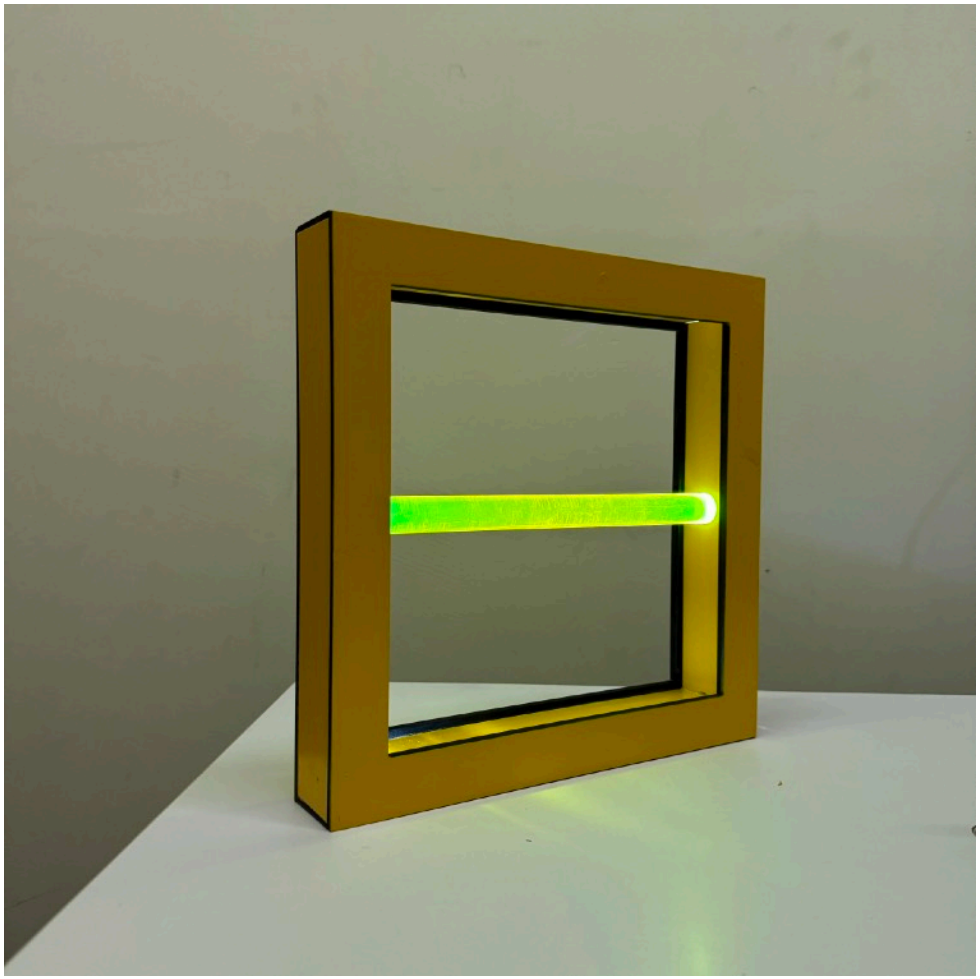


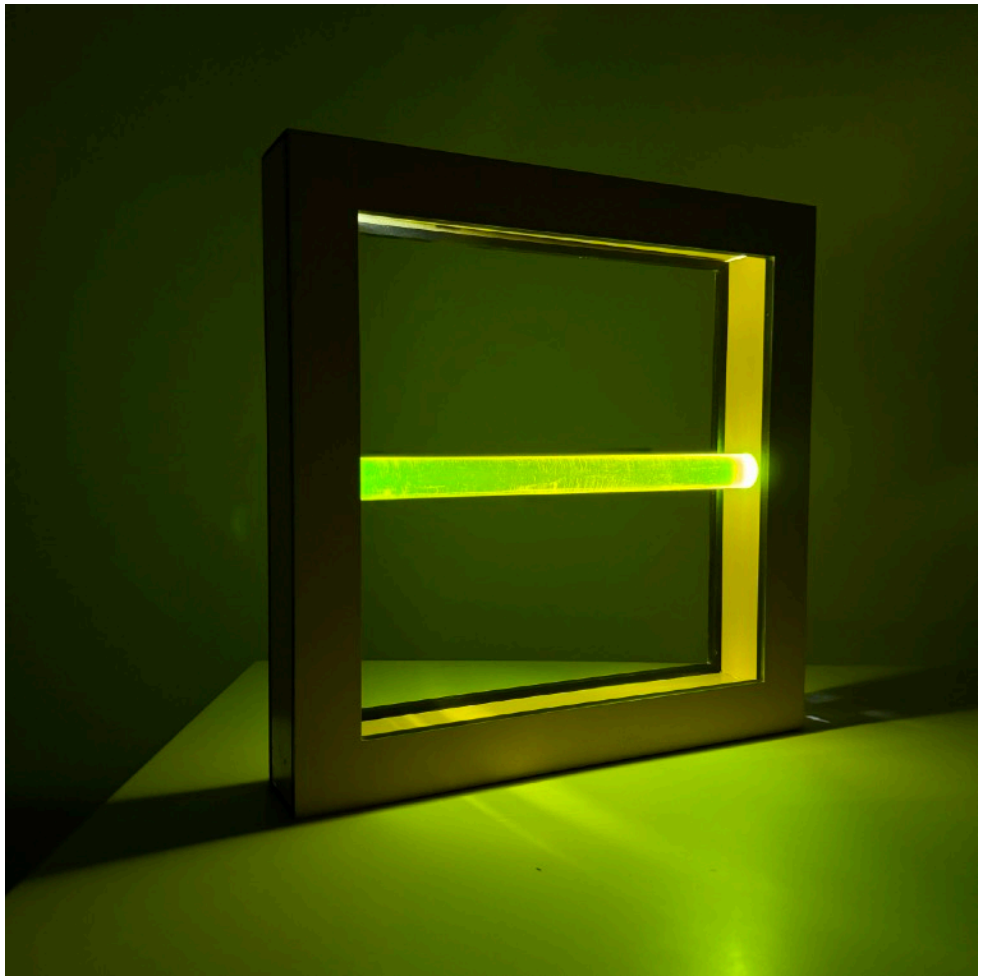
Lightbox maquette in yellow acrylic rod with
LED light (powered through mains)





Lightbox maquette in Amber hollow tube with
LED light (powered through mains)





Lightbox maquette in Fluorescent green rod
with LED light (powered through mains)

02. Research

Prototypes suitable for outdoors exploring different design options.

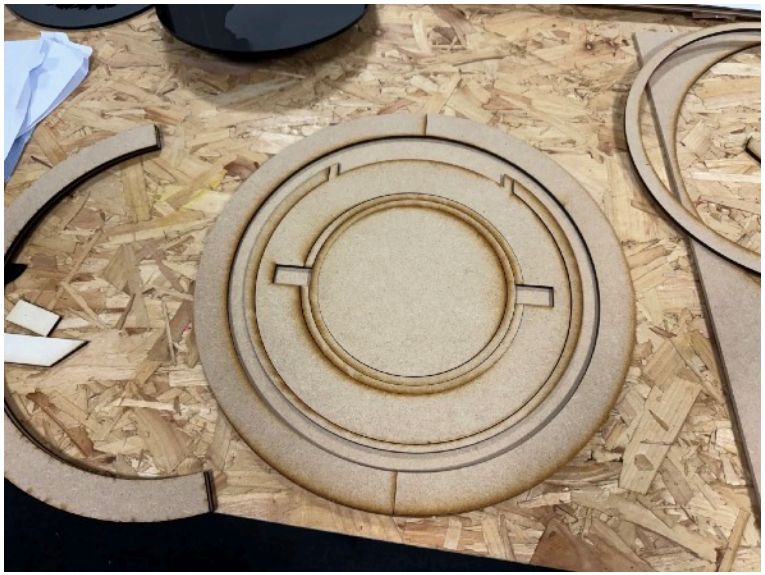
Cast frames

- Explore making frames using silicon moulds
- Explore hollow casting/laminate in Jesmonite reinforced with glass fibres.
- Look at different Jesmonite finishes suitable for outdoors.

Using coloured acrylic

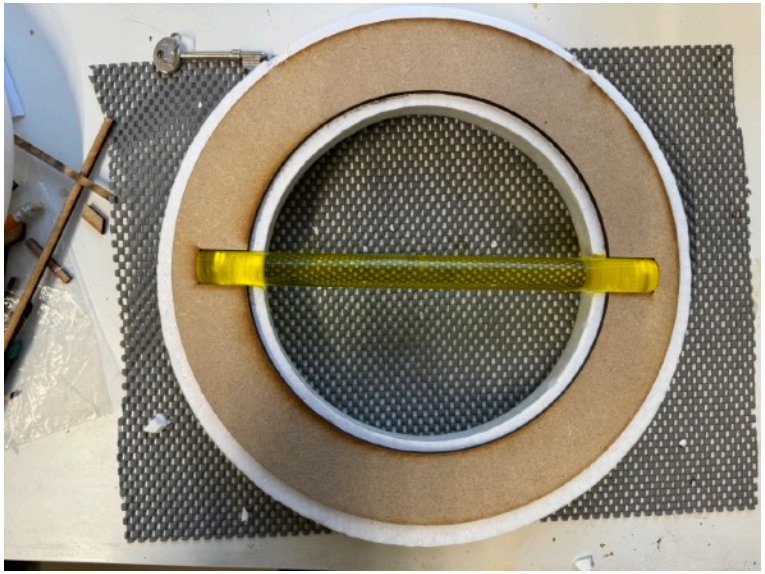
- Research process of bending and sealing acrylic.
- bonding acrylic

Cast frames using silicone and Jesmonite

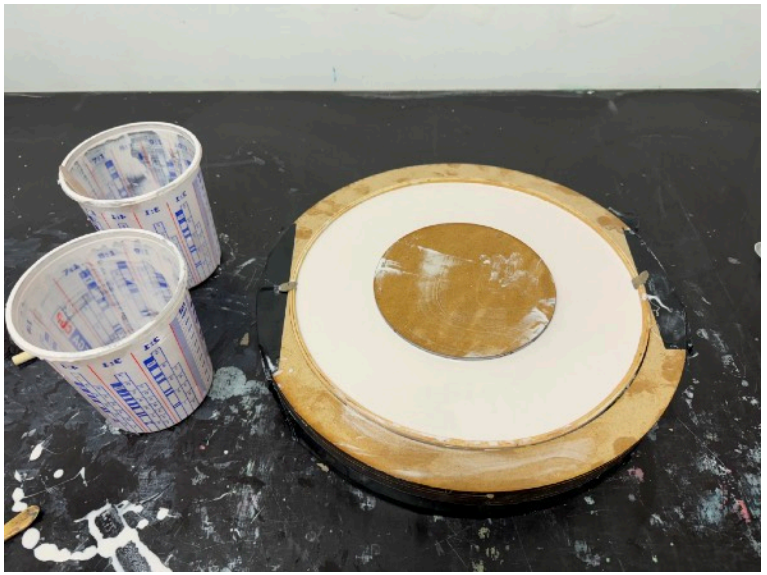


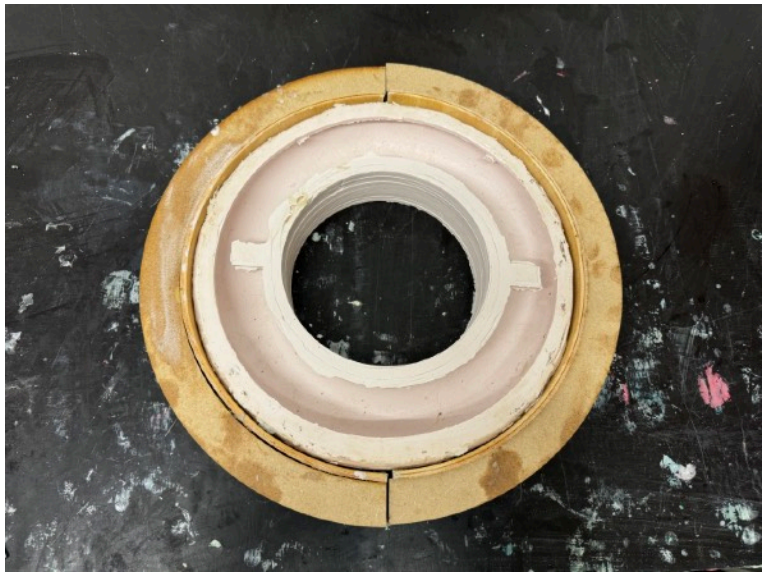








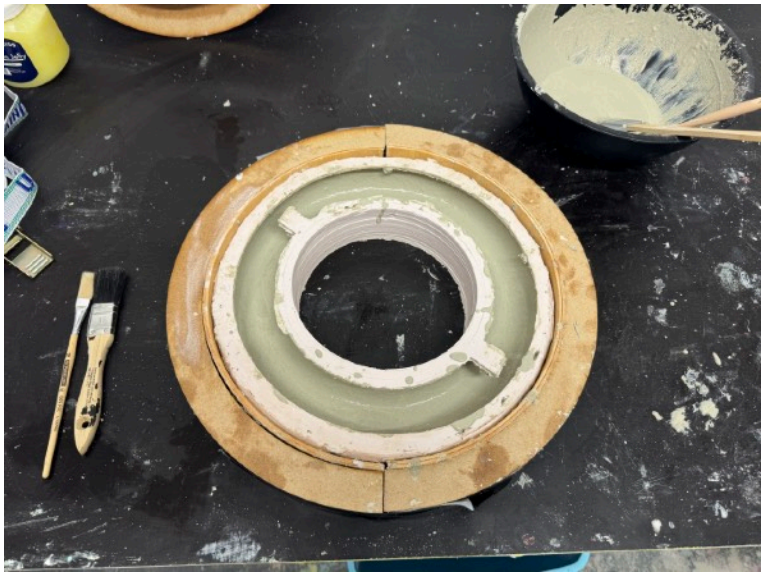




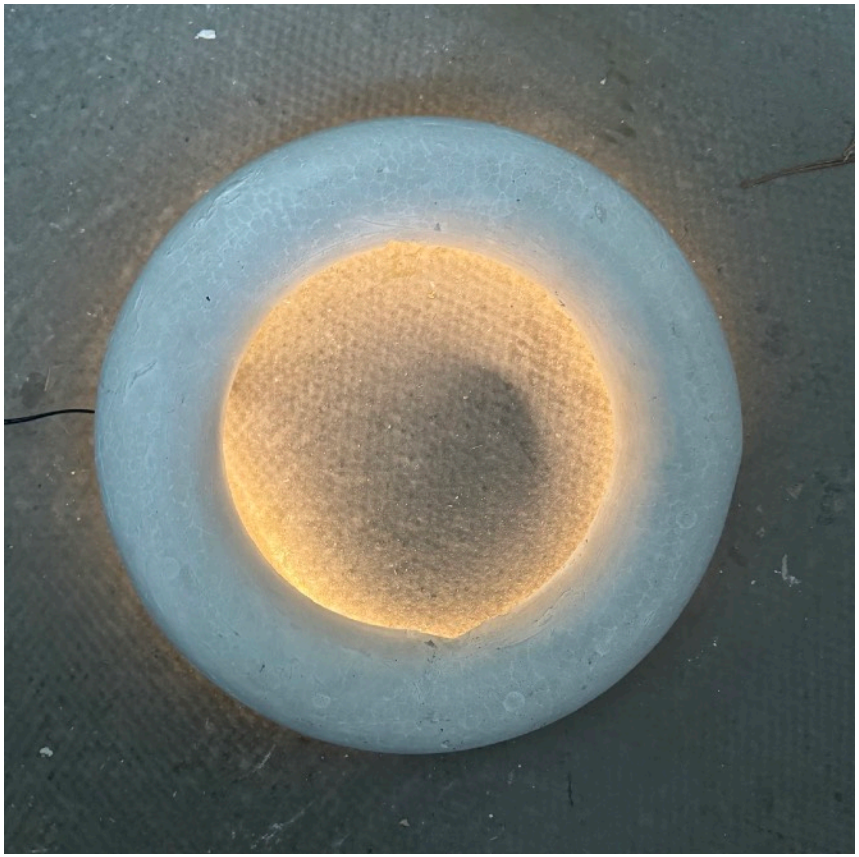

AC730
White
Marble
AC730
Yellow
Sandstone
AC730
Silver Grey
Granite
AC730
Charcoal
AC730
Bath
Stone
AC730
Natural
Stone
AC730
Terracott...
AC730
Portland
Stone

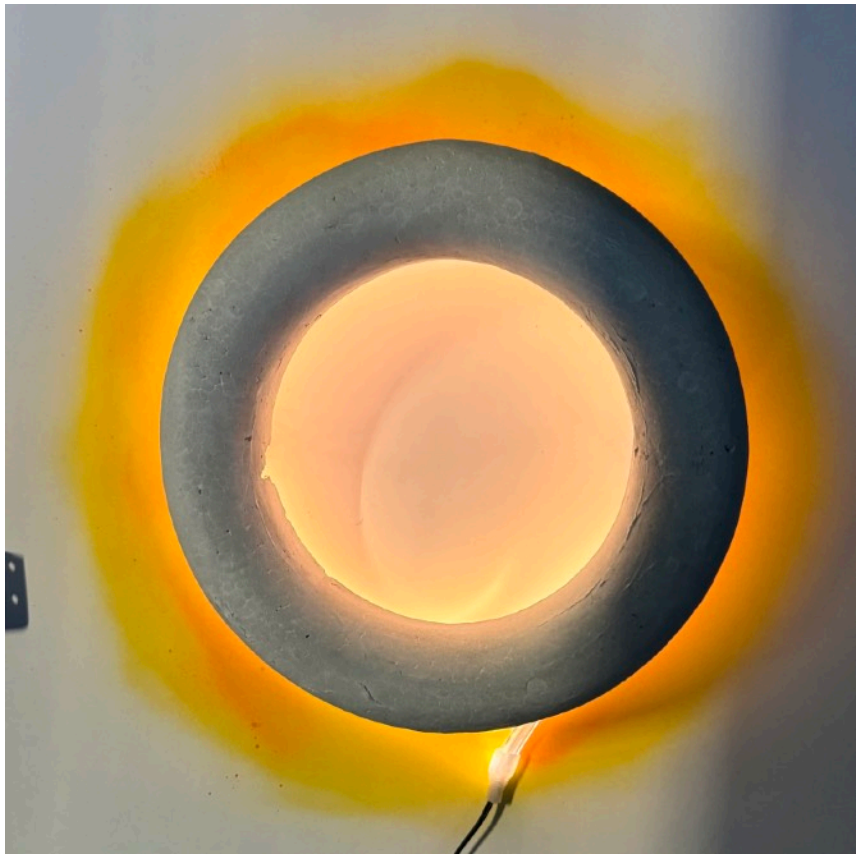














Design 1

Wall mounted Jesmonite ring with internal LED light strip. Acrylic painted background.
Installed on a concrete wall

Research findings

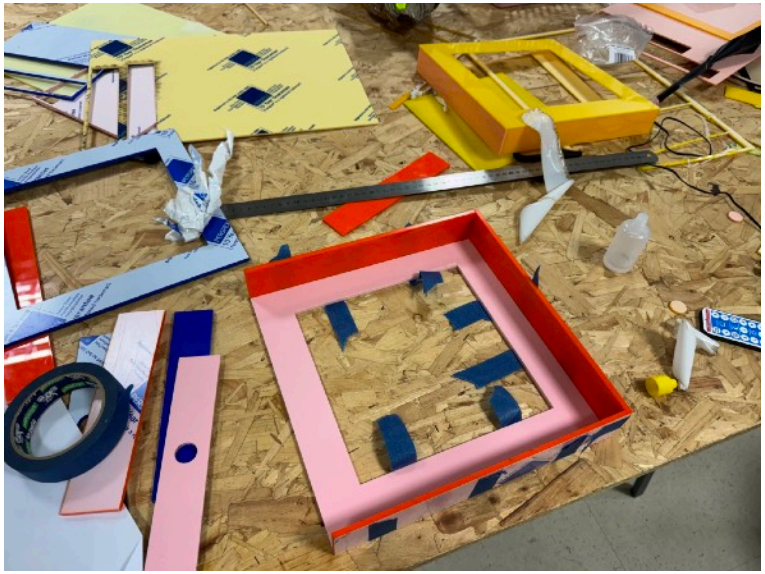
Cast frames in Jesmonite -Portland stone finish
- reinforced with glass fibres.

Initial intention to have a hanging light in the alley using yellow chain. The light disappeared into visual architecture of the alley during the day and the light didn’t catch in the same way as the square frames.

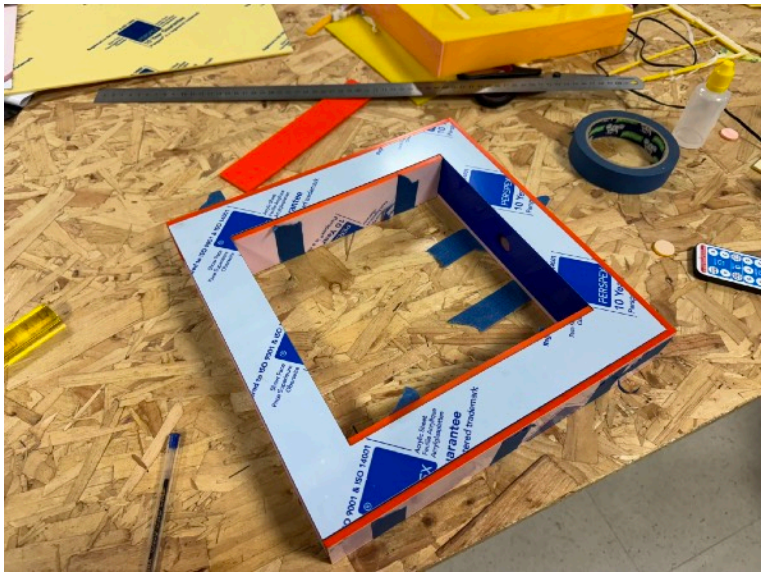
Rethought the piece to become a wall mounted light which will be installed at the top of the alley.

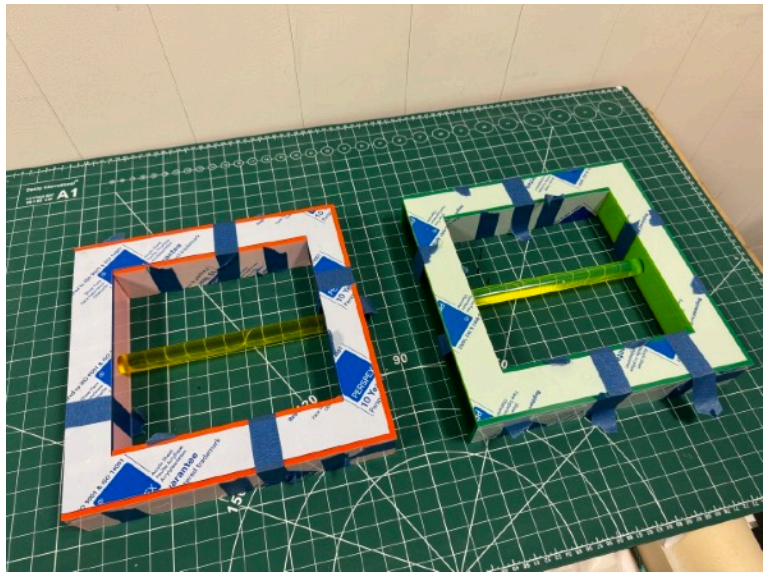
The LED strip is waterproof and powered by solar panel.

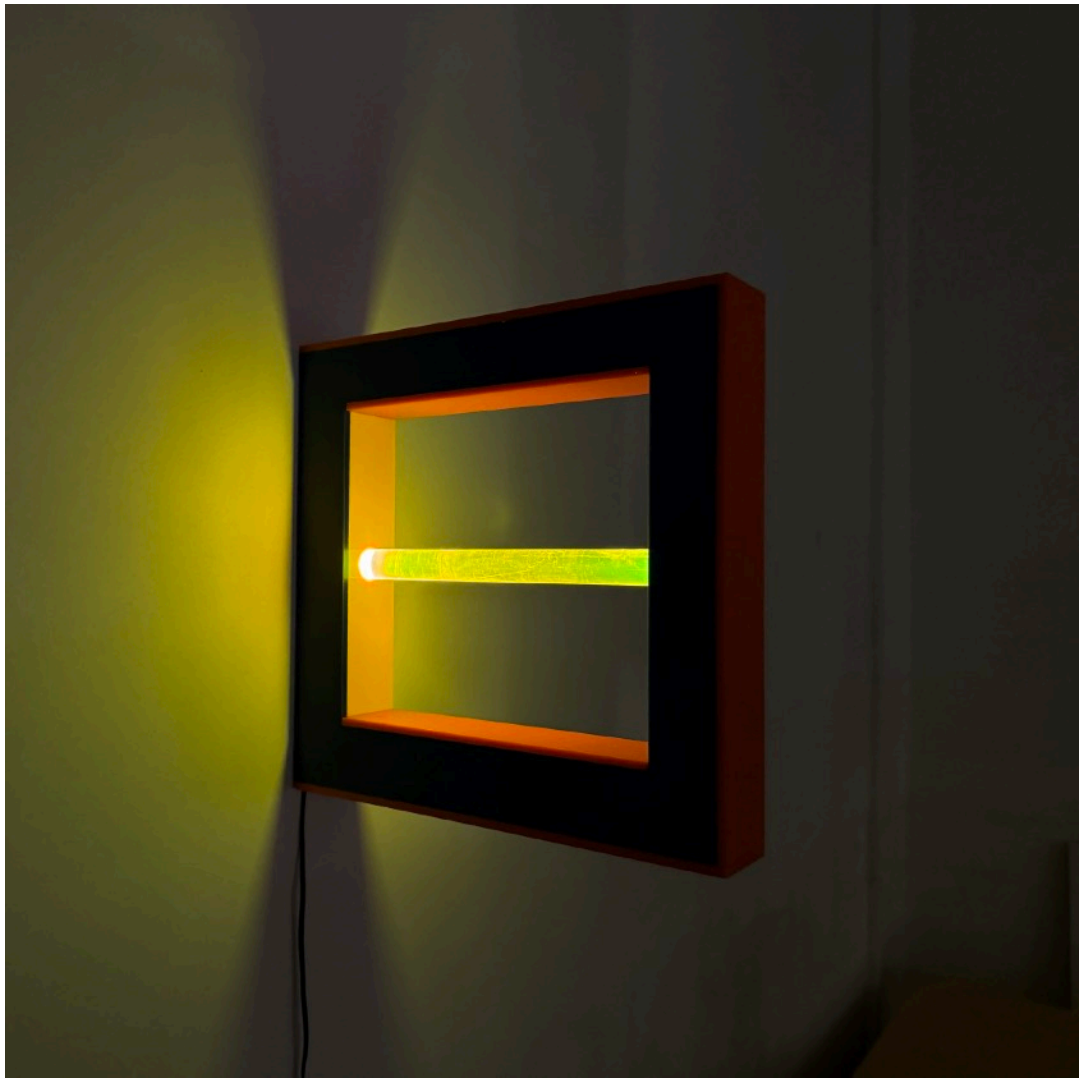
Design 2 : Coloured acrylic light boxes

















Research findings

Considering how the lights would look during the day as well as lit up at night.

Vibrant contrasting colours to stand out in the alley.

Sculptural quality

4 lights with different colour combinations to be installed as test pieces in the alley

The solar panel waterproof lights have only 2 LED lights needing minimum power

The acrylic boxes have been designed so the lights can be removed and changed if the fail to work over time.



LAZY 8 is a design project by Irish artist Martin Boyle focusing on colour and pattern based in Belfast, Northern Ireland.

LAZY 8 creates vibrant tiles artworks of geometric forms and tessellated patterns that are digitally designed, laser cut, then painted and assembled by hand

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