**What do you need?**

- 2x55x60 mirrored plexiglass
- 10 meters stripe LED illumination
- 28 meters LED inter-connector wire
- 20 meters soldering wire
- 50 gr small size soldering paste
- 1 soldering iron
- 12A – 5V Adapter for LED illumination
- 1 utility knife
- 4meters steel wire
- 9 pieces clamps to hold steel wires
- 0005 (1.1 calibre Smooth Surface Aluminium Pipe)
- 1 scissors

How will you start?

Firstly, I drew that illumination tool that I designed, by Autocad in the way that can be processed by CNC CUTTING MACHINE)
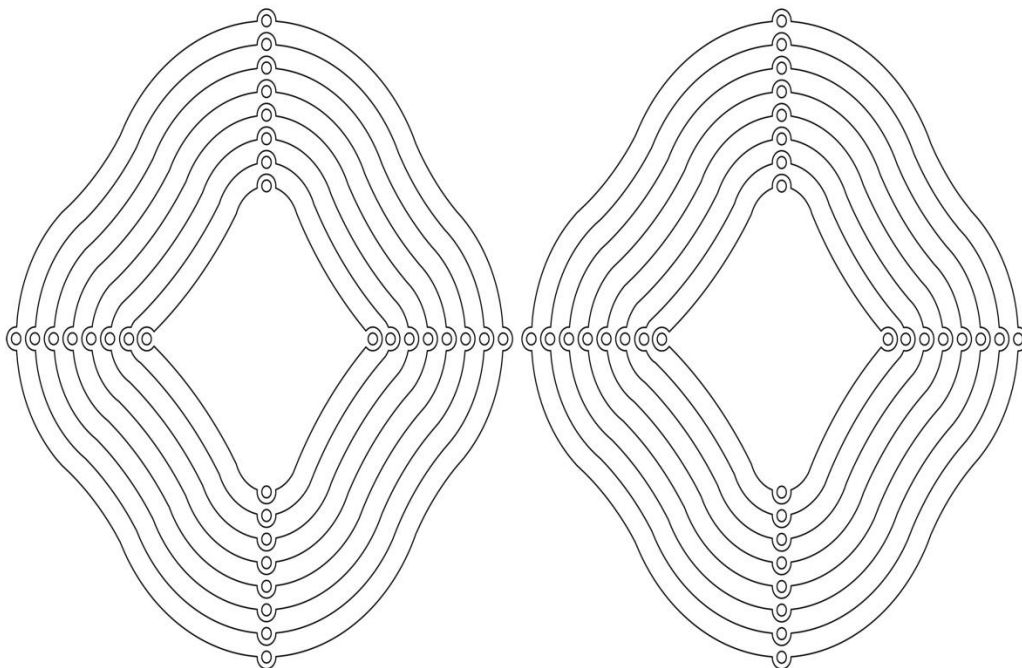
After drawing it, I obtained 2 pieces 55x60 cm size mirrored Plexiglass. I have the Plexiglass cutted 18 parts by CNC Cutting Machine.

After cutting process, I obtained the necessary materials for assembly to make my illumination tool.

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I cut the stripe LED stripe on cutting points as 5 cm by scissors. I placed those 5 cm LED stripes on the plexiglass material. I cut the the power wires equeally and soldered them.

I sticked all the LEDs on the plexiglass. After sticking process, I obtained steel wire, clamps, smooth and surface aluminium pipe to assemble all parts of my desgin .
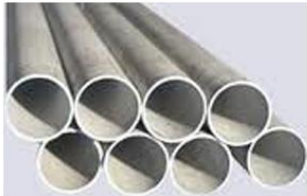
I attached the clamps tightly by a wrench to the edges of each 1 meter length steel wire. I pleced the smallest plexiglass to the very bottom. I attached the steel wires to each corner. Then I passed the steel wires and power cable through small aluminium pipes. I assembled the upper parts of my design on each other in the same way. I soldered the power wires to all the LEDs.

As you see above, all the power wires, from bottom to top are connected in sequence to each other to provide energy to all the LEDs. And the main wire at the top is connected to the power adapter.

After doing all the assembly, I fastened each of the steel wires from their upper edges by steel clamps. And all four steel wires are attached to each other by a clamp to hang it to ceiling from one point. At the very and I hanged my desgin to the ceiling.