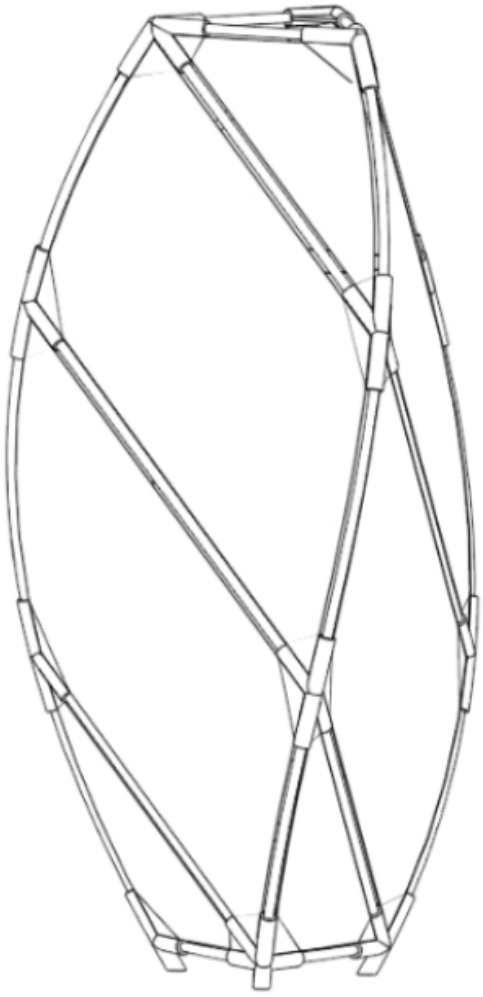
SPIRALAMP

A RUMFORM PRODUCT



Build Instructions

INTRO

Thank you for purchasing the SPIRALAMP kit by RUMFORM. We sincerely hope that the following pages will see you comfortably through the build process and leave you with a beautiful lamp that you can be proud of.

If you have purchased the full kit, you can skip to the assembly instructions. Otherwise let's get started with the 3D printing. Get those Robots working...

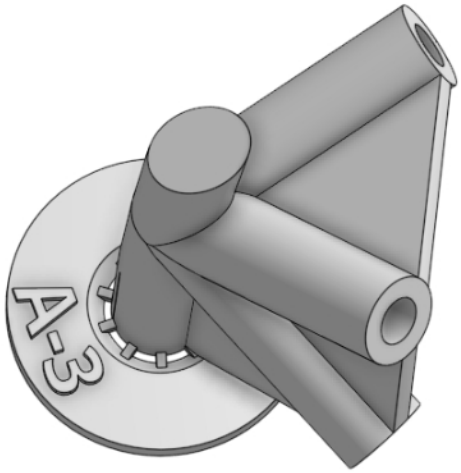
3D PRINTS

SPIRALAMP consists of 14 3D printed parts.

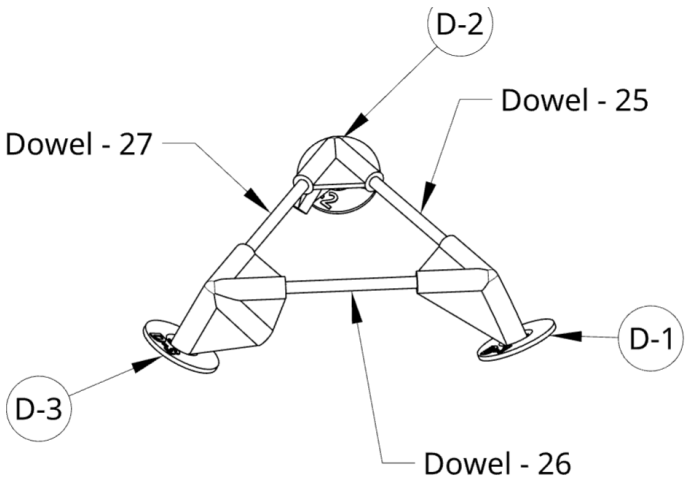
We presume the following:

- FDM 3D printing with 0.4mm nozzle (up to 0.48mm extrusion width)
- 0.20 layer height
- 2 perimeter walls
- 20% infill (can be more)

Some parts come with a print foot that also acts as an identifier tag. These tags can be removed after printing, but it will benefit you to leave them attached until the assembly phase as they will also help you get the part's orientation correct.



See the above example part. The ring at the base is the print foot with it's part number embossed (A-3). You can see the small connector tabs which hold the final part. These can be cut with a knife or broken off to free the part.



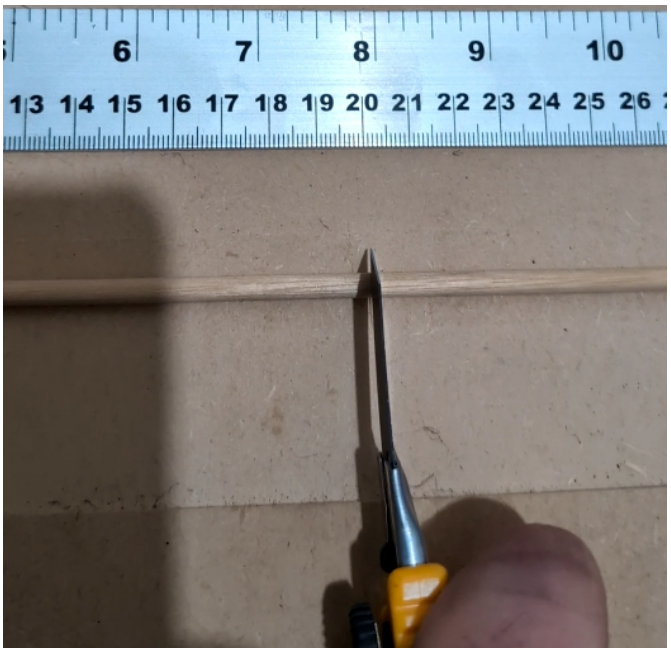
This example assembly drawing shows how the print feet show you the orientation of the part in the assembly.

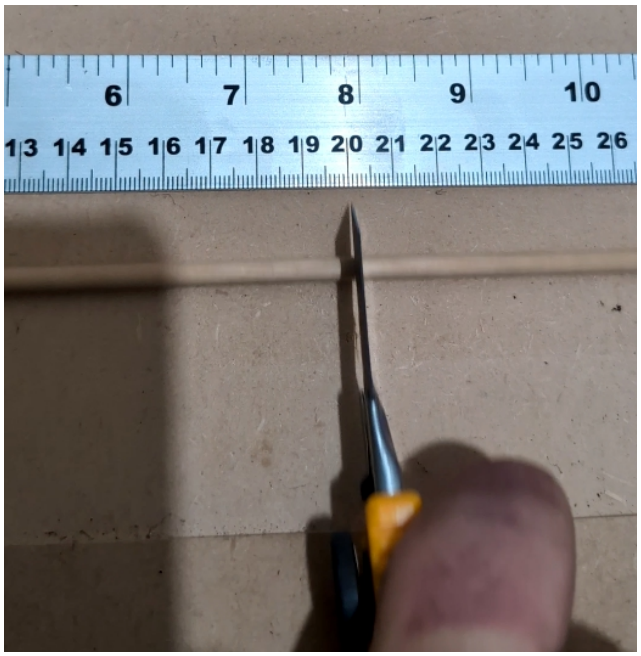
The 3D print files can be found in the folder named **1-3D_PRINT_FILES_STL.** These files are already plated for slicing and printing. Note you may need to split the parts into several print beds in your slicer depending on your printer size.

DOWELS

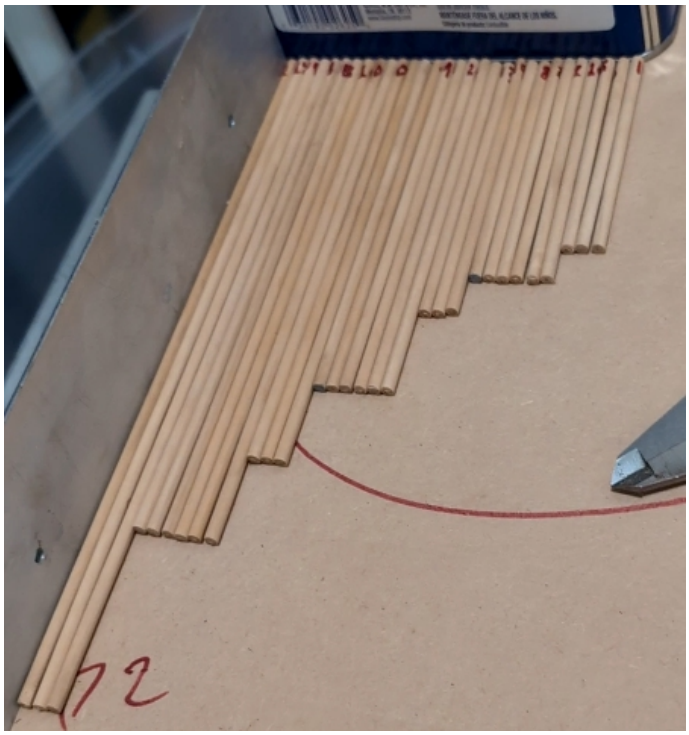
This kit uses 3/16”(0.1875 inch or 4.76mm) wood dowel. You will need to cut 24 pieces of dowel totalling roughly 180”(450cm) of material.

Because this dowel is so small, it can be cut using a sharp knife. Line up the knife with the measurement device and simply roll back and forth until the cut is complete.





Make sure to mark the dowel number on each piece within 15mm of the end of the dowel. This will ensure that the writing is hidden by the connector it seats into. Note that the cut list is ordered by dowel length so that you can cut several of the same length in succession to avoid mistakes.



PANELS

This kit has been tested using 0.20" PET plastic sheet as the shade panel material. The PET is sanded with an orbital palm sander on both sides to create the light diffusion effect. You are free to use any other sheet material you like but please consider the following:

- Material should be somewhat rigid in order that it will hold the slight curve shape.
- Consider the material's proximity to a potentially hot light bulb. Materials that may sag, melt, or burn should be avoided. You can also use a weaker light bulb or LED to decrease heat (40W max recommended)
- Check the material's light permissiveness with the light bulb to be used.

The cut files can be found in the folder marked **3-LASER_OR_PRINT_FILES_DXF.** These can be used for laser cutters, drag knife cutters, or even be printed to paper and used as manual cutting templates.

You will need to make 3 of each of the panel types totalling 12 panels.

ASSEMBLY

With all the parts in hand you will only need the following:

1. A hot glue gun or other glue. Make sure to test the chosen glue with the panel material and 3D printed plastic to be used.
2. A scrap piece of dowel.
3. A lamp light bulb with attached wired plug and switch. The type that inserts into a hole and clamps on with a threaded washer. Search for **Pendant Light Chord Kit.** The exterior of the bulb socket barrel should be about 41mm (1.61417 inch) in diameter.

The dowels should not need to be glued into their connectors but it is important to be very careful when setting them. If you encounter too much resistance when setting the dowel into the connector, remove it immediately and open the hole up with your spare piece of dowel inserted into a drill chuck. With the drill running, you can push it in and out of the hole to open it up a bit.

If you break a piece of dowel inside the connector, you can use a wood screw to remove it.

Please refer to the PDF named **SPIRALAMP_TECHNICAL_ASSEMBLY** for the remainder of the assembly.

Note that for this kit, panels 2 & 3 are identical but reversed and the same is true for panels 1 & 4. For ease of use the panel DXF files are marked with their panel number even though there are only 2 distinct patterns.

Make sure when attaching the panels that you leave one of the larger panels off and attach it with sticky tack or similar so that you can remove it to change the light bulb later.

Enjoy your new SPIRALAMP and please send us pictures of your build. If we use your picture, you will get a gift certificate for our other kits.

CHEERS!