



## Black Hole Lamp V2

[VIEW IN BROWSER](#)

updated 7. 9. 2026 | published 7. 9. 2026

### Summary

Here is the updated cosmic display lamp! It requires an LED Lamp Kit 001. USE THE PRINT SETTINGS IN THE DESCRIPTION.

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[001](#) [ledlampkit001](#) [ledlampkit](#)

### What is New?

- The light-up part of the black hole now prints in one piece instead of two, meaning there is no more seam or gap
- A new internal LED Lamp Kit housing that makes it possible to install the LED lamp into this new design without requiring an adhesive pad
- An updated connection between the black hole light and stand for easier alignment
- Designed for easier gluing
- A new assembly process (instructions are provided)
- The exterior geometry of the design has been updated slightly
- Updated print settings

These improvements do come with the drawback of requiring more supports, and to print this model, your print volume needs to at least fit a 156mm x 156mm x 220mm area. Pliers and flush cutters are great tools for removing supports.

## About This Model

This is a light up display lamp that looks like a black hole. It requires only two colors of filament and an [LED Lamp Kit 001](#). This model does also print in multiple parts that will need to be glued together (I recommend using super glue or 3D Gloop). I highly encourage you to print each part with the print settings specified, or use the provided 3mf that already has these settings applied.

## Print Settings

"Light":

- Use white filament
- I suggest printing in the default orientation
- 3 wall loops
- 100% infill
- Use tree supports along the edges of the disk (this prevents the print from falling over as it prints) and under significant overhangs (especially around the center bulb area)



- Paint the seam along the outside edge of the disk (hides the print seam) (try setting the seam to "Back")
- Optional: decrease the outer wall print speed for a higher quality finish (this setting is NOT applied in the provided 3mf)
- Optional: decrease the initial layer print speed for better adhesion (this setting is NOT applied in the provided 3mf)

"BlackParts":

- Use black filament
- 4 wall loops
- 5% infill
- enable brim
- enable supports
- Optional: decrease the initial layer print speed for better adhesion (this setting is NOT applied in the provided 3mf)

"Stand":

- The filament color is your choice
- 5-15% infill
- 4 wall loops
- Set the seam position to the back of the stand

## **Assembly Instructions**

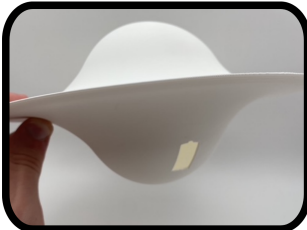
*I suggest practicing assembling the lamp without glue first to make sure you understand how to do it correctly.*

*\*If a word is in quotes, then that word is just referring to one of the 3D printed parts by its file name.*

**1**



Find the "BlackParts" piece with the slit in the inside arch, and orientate it so that the ends of the arch are pointing up. Orientate the "Light" so that the rectangular cut out is on the bottom half.

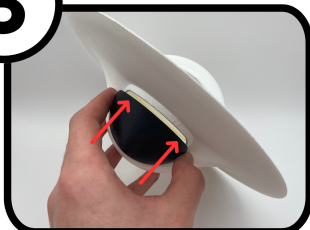


**2**



Add glue around the outer surface of the rim at the large hole on the bottom half of the "Light".

**3**



Slide the "BlackParts" piece from before into position over the bottom rim and apply pressure between the parts while the glue dries.

**4**



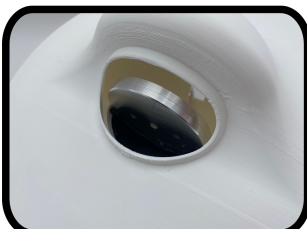
Feed the end of the LED Lamp Kit cord through the front top hole of the "Light" and out the rectangular cut out at the back of the "Light".



**5**



Carefully insert the LED Lamp Kit snugly into its housing (slide it into the arch from the "BlackParts" piece). Make sure the light is facing towards the BACK of the "Light".



**6**



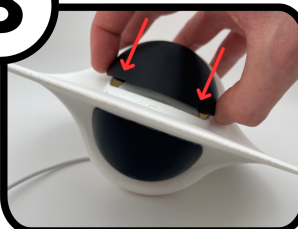
Add glue around the outer surface of the rim at the large hole on the top half of the "Light".

**7**

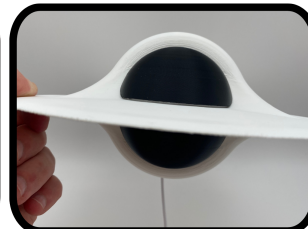


Find the remaining "BlackParts" piece, and orientate it so that the ends of the arch are pointing down.

**8**



Slide this "BlackParts" piece over the top rim and over the LED Lamp Kit. Apply pressure between the parts while the glue dries.



9



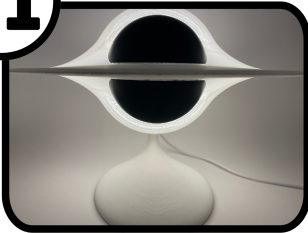
Add glue to the top surface of the "Stand", but NOT on top of the rectangular protrusion.

10



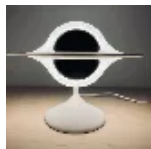
Settle the cord into the small hole at the top of the "Stand", and position the "Stand" so that the rectangular protrusion aligns with the rectangular cut out in the "Light". Make sure the top surface of the stand is able to sit flush with the "Light". Apply pressure between the parts while the glue dries.

11



Now just plug in your black hole lamp and turn it on!

## This remix is based on



### Black Hole Lamp

by NAM\_3

## Model files

### blackholelampv2.3mf



☐ Project file for Bambu Studio - Consider also lowering the outer wall print speed

### light.stl



☐ Use white filament - I HIGHLY suggest using the print settings in the description for this part



### blackparts.stl

☐ Use black filament



### stand.stl

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