LulzBot Filament Testing Report

Manufacturer: Filament Name: Filament Type:	Colorfabb Copperfill Copper powder filled PLA/PHA Bront M		
Tested By:	Brent M		
Date:	10/20/2015		
Ease of use:	6/10		
Appearance:	8/10 - Can be polished		
Size consistency:	7/10		
Color consistency:	10/10		
Print temperature:	215/60		
Prints using Lulzbot profiles/temps: Yes, profiles had to be created for this material			

Notes:

- Great density and feel, especially when polished
- Prints witht eh same profiles as the bronzefill
- Needed to be printed at a hotter temperature that manufacturer recommends (230 vs 190-210C)
- Color was very consistent throughout the roll.
- Nice professional looking packaging.
- Overhangs and bridging are pretty poor, but dimensional accuracy and negative space are great.
- The material is pretty brittle when printed (similar to laybrick), but it feeds off of the spool very nicely.
- Material tends to build up on the tip of the nozzle and cause print defects
- Should be noted that 0.75kg of this filament is a much smaller roll that what people are used to with non metal filled filaments

Recommendation: This material is great looking, and can be printed well with the profiles developed, should be great for cosplay or decorative prints. Because of the potential heatcreap issues and nozzle buildup, I would recommend classifying the material as "advanced" in the cura quickprint menu.

Filament	Variance in diameter	Maximum out of round	Extrusion temperature
Colorfabb Copperfill (2.85mm)	2.76-2.89mm in 10m sample		215/60 worked well, running cooler could improve overhangs but may cause jamming

