SSL-UCB, ALD/Incom MCP Test

- Incom substrate
  - 40µm pores, 8 deg bias, 40:1 L/D
- Sent to Arradiance for resistive and emissive layer application + electrode
- Resistance approx 750 MΩ in vacuum
- Arradiance tests show 50,000 gain @ 1000v
- UV - bright image, no light - black!
- Tested as a single MCP + Phosphor
  - It works! We have a functional, uniform, and stable (1hr) MCP using borosilicate and ALD.
- Project milestone under 5.1 year 1 deliverable
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Arradiance gain curve for Incom 40µm coated substrate
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It works!

700v

800v

Bright scratch on phosphor

UV light

1000v

900v
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• Multifiber pattern is bad due to crushing of pores at the multifiber interfaces
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- Multifiber pattern fades as the MCP gain is increased
- Gain is quite uniform
- Need to determine cause of black spots
- Multifiber lines <100µm

![Image of MCP pattern with a scale of 2mm and a graph showing intensity vs. distance.](image-url)