

Lessons Learnt through Testing Lamps - the Devil is in the Detail

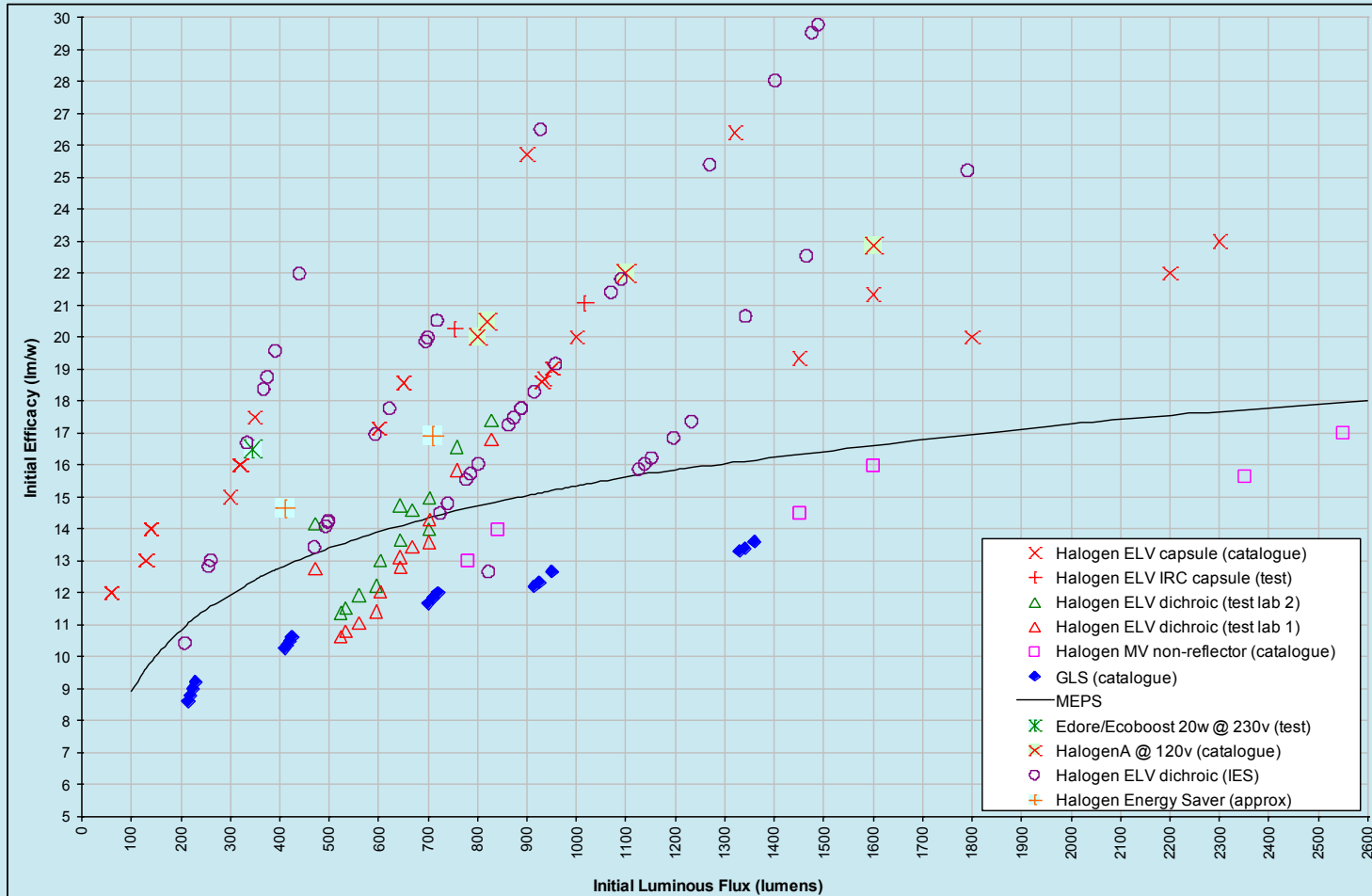
Mel Slade



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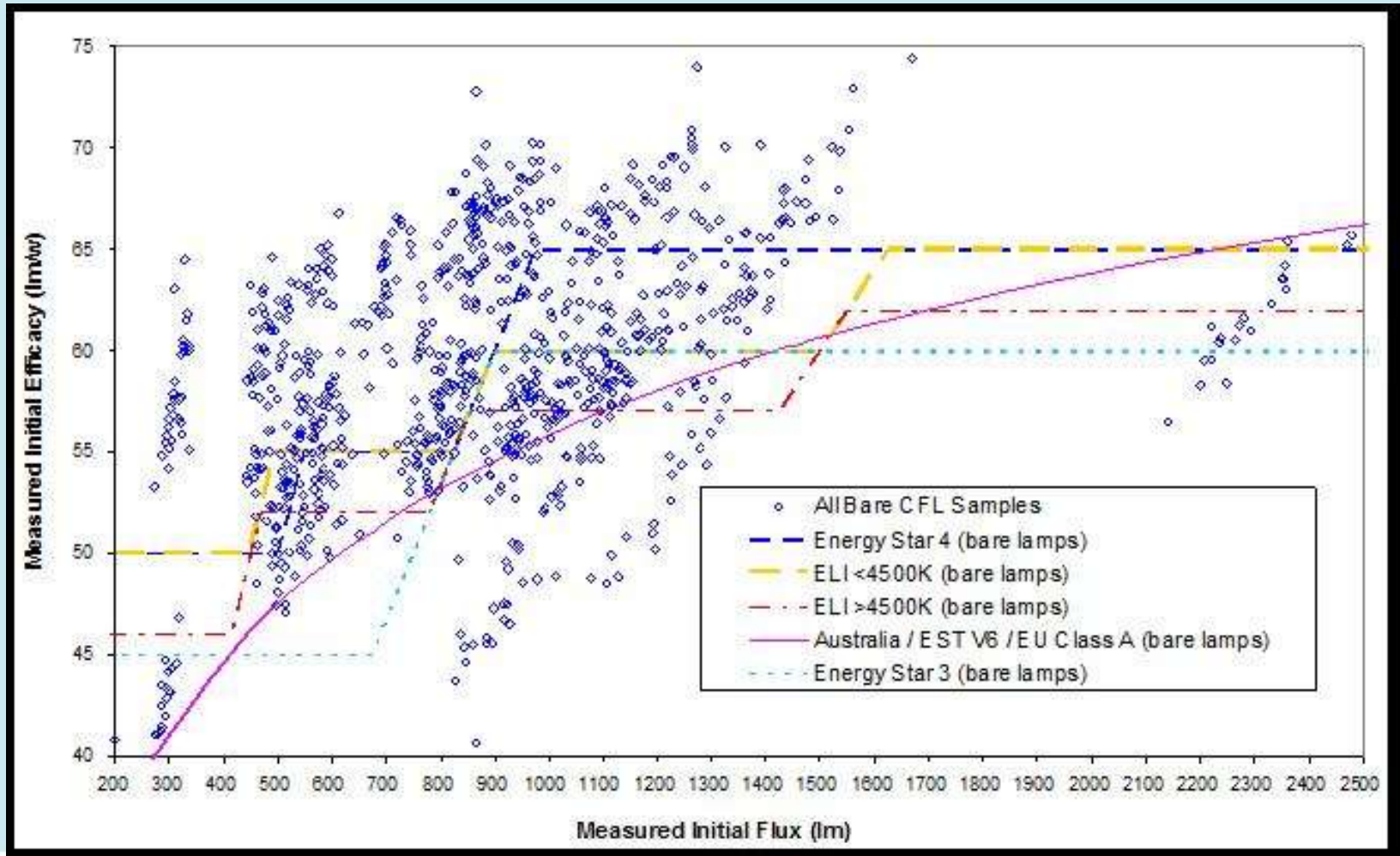
In the beginning.....



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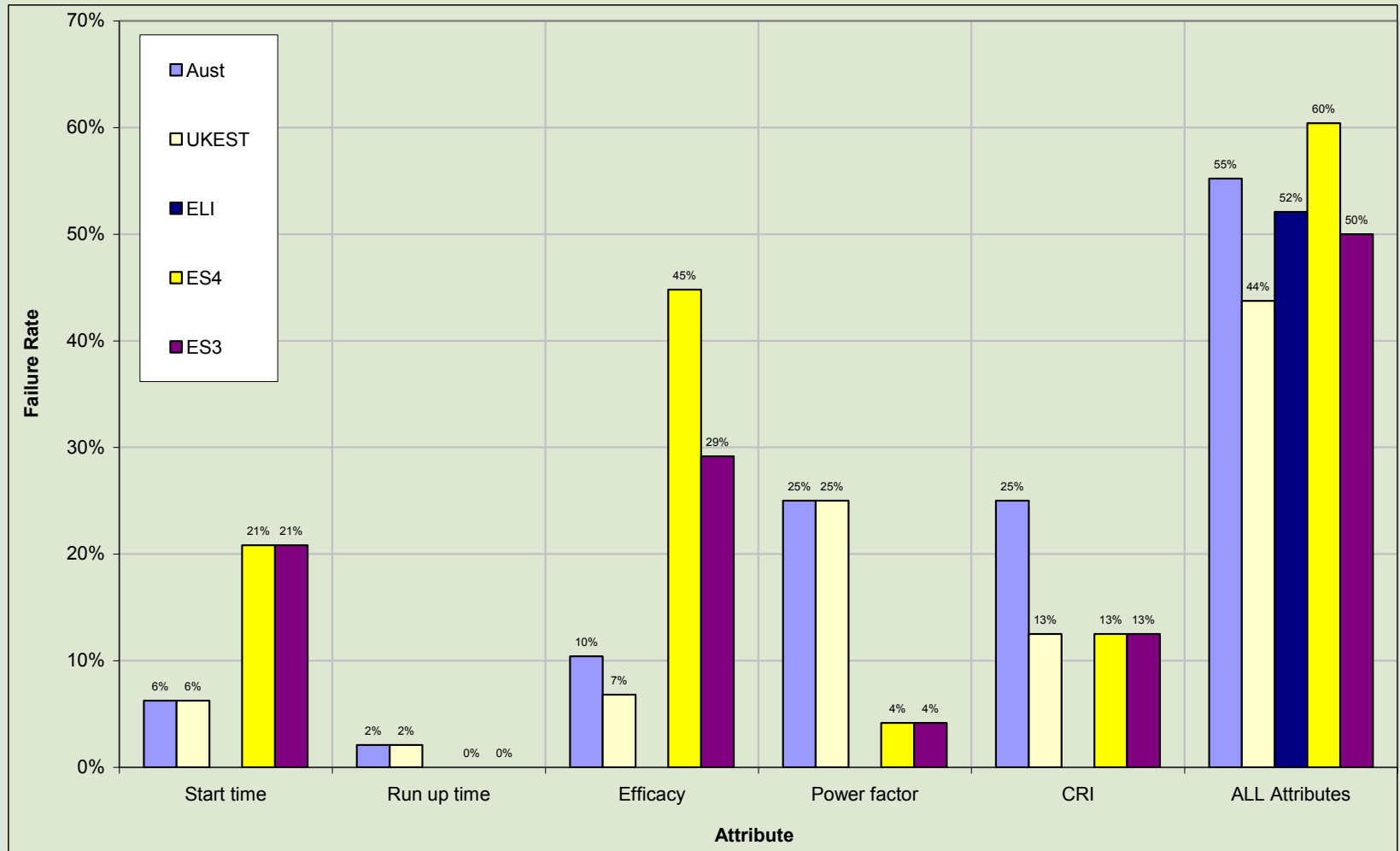
CFL Benchmarking Tests



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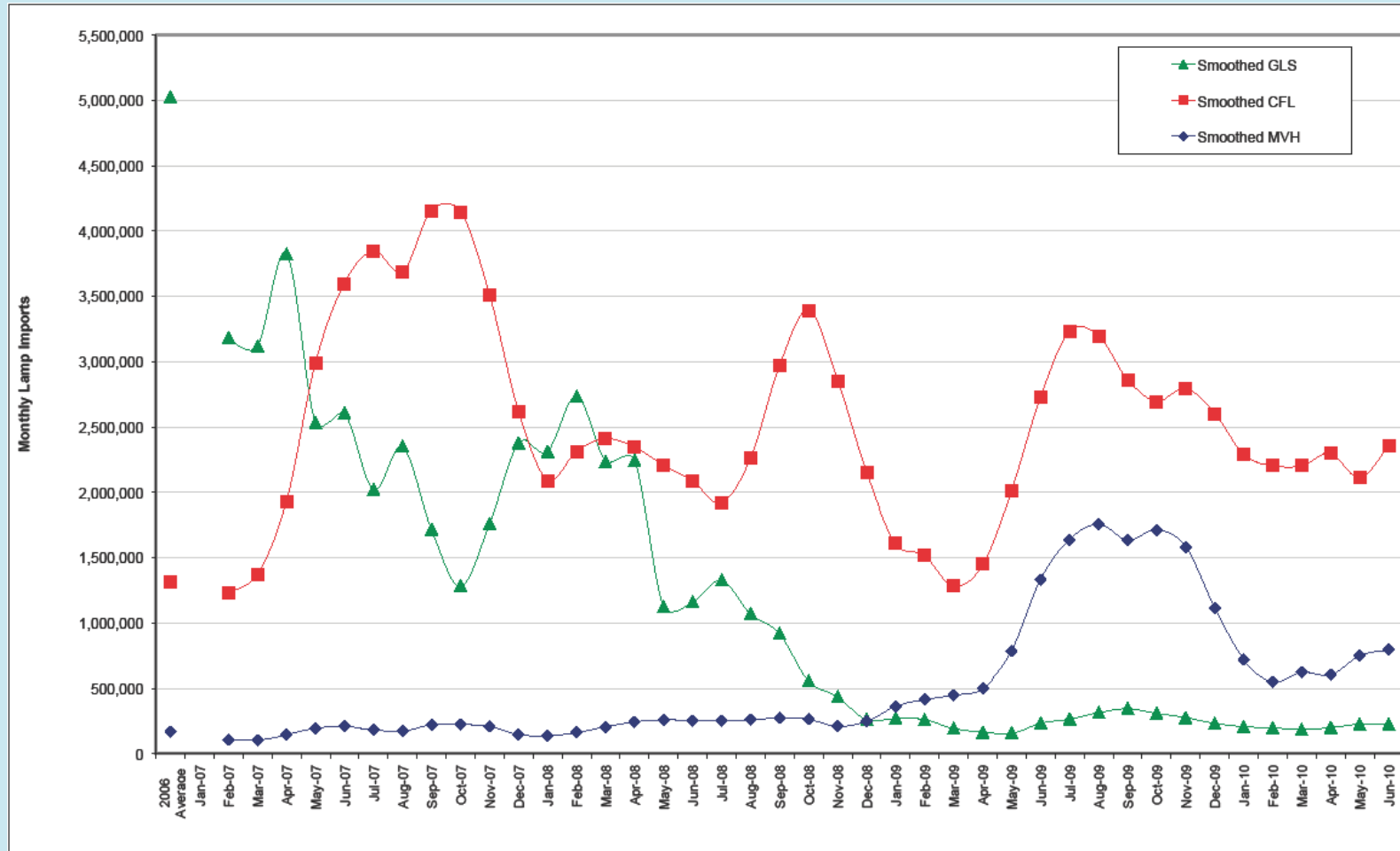
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Results so far



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Low Voltage Halogen Issues

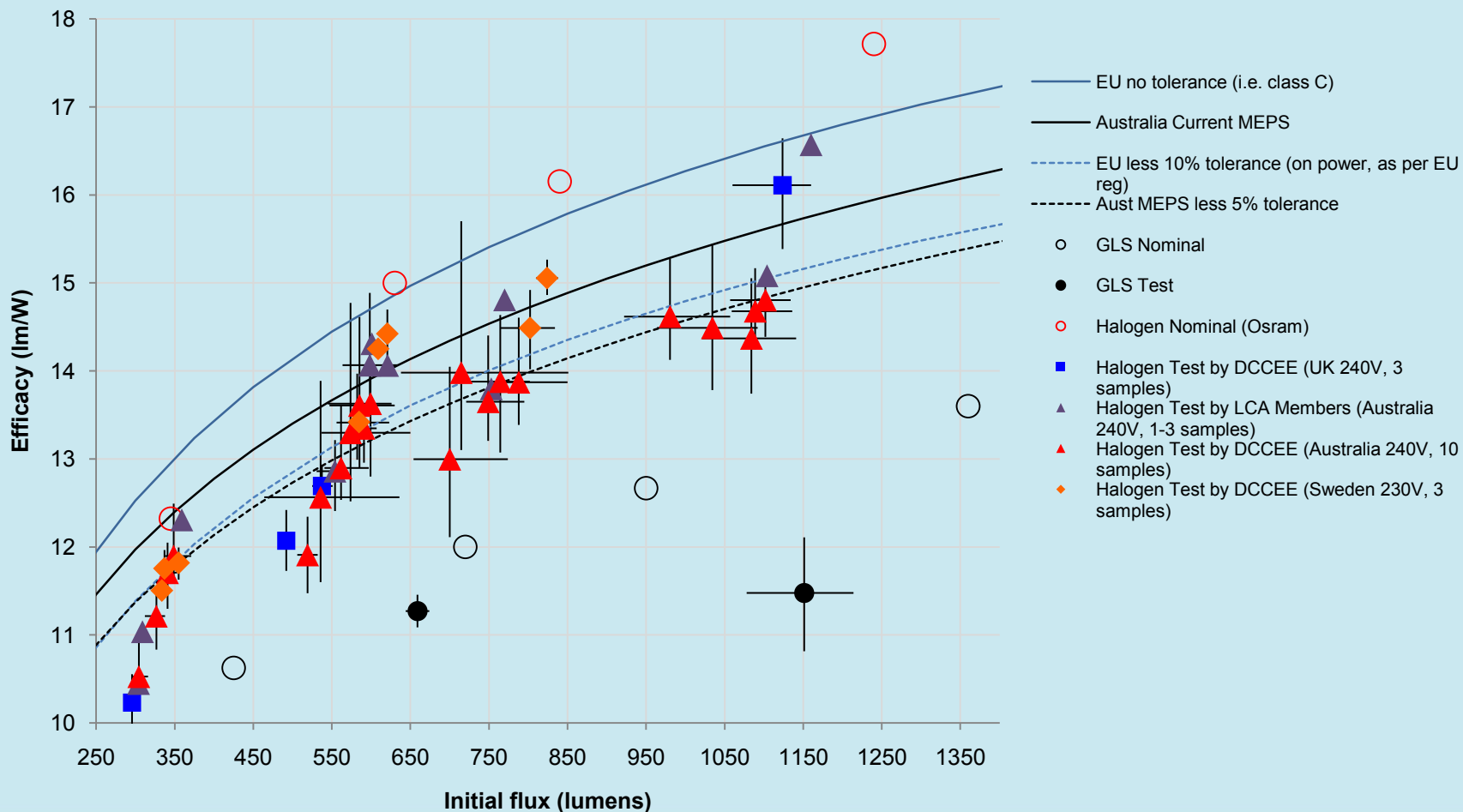
- Test Standard was not reliable for reflector/directional light sources
- Round Robin between major suppliers and two independent labs
- We now have a cost effective method we can use for compliance
- And we have learnt a lot about testing directional light sources which will help us with LEDs



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Mains Voltage Halogen Tests



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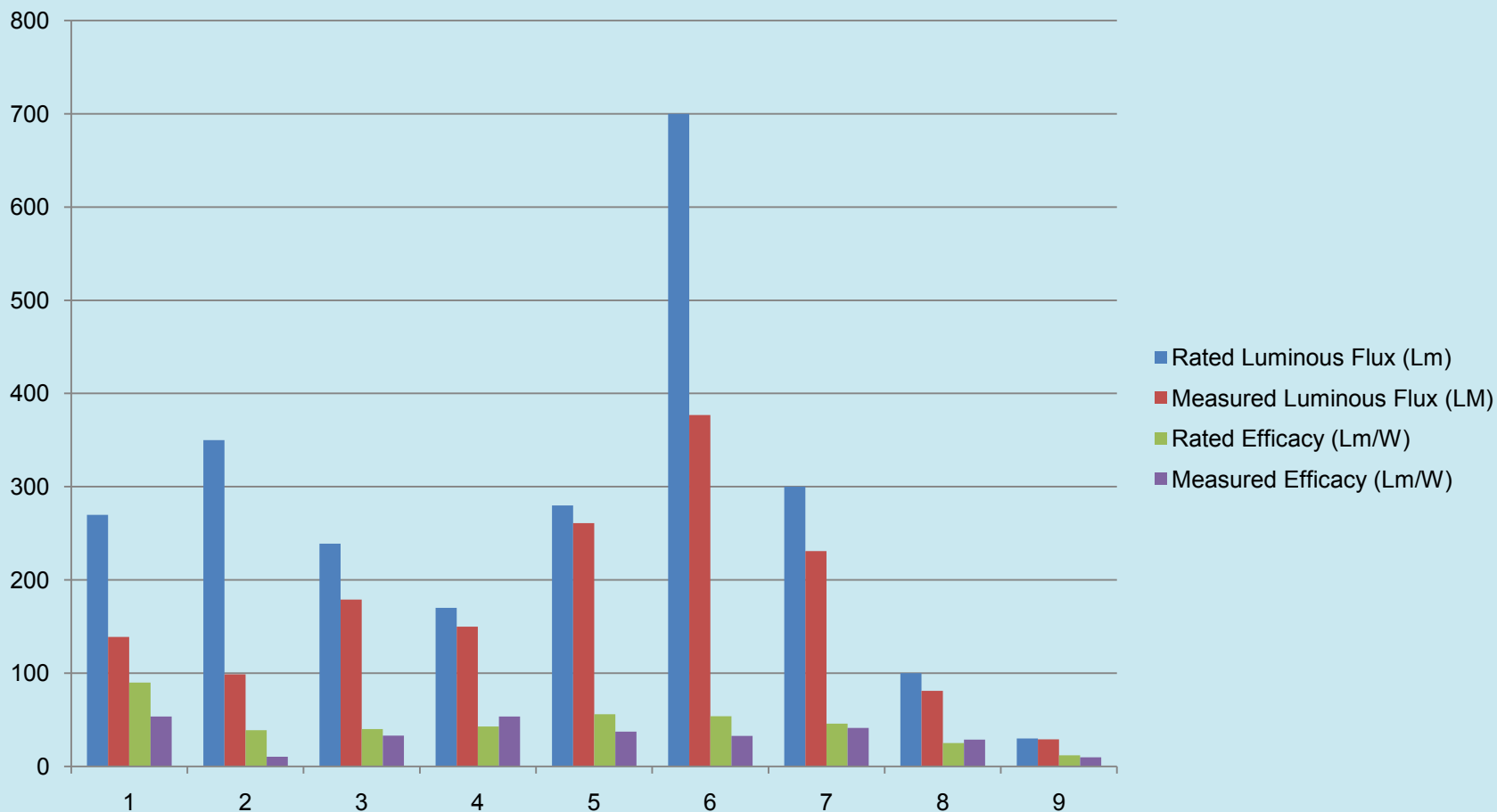
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LED Quality

- CALIPER tests in US show a significant variation between product performance claimed by manufacturers and test results – especially light output and efficacy.
- In these cases consumers who choose LED lighting may find they achieve increased efficacy at the cost of light levels, light quality and higher costs.



LED Tests



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What has the Phase-out taught us?

- Policy makers need to be involved in Standards Development – test methods as well as performance levels
- Standards need to be clear and unambiguous – sounds obvious but many aren't
- Test methods should be suitable for cost effective compliance monitoring
- Information requirements and equivalency need to be included in regulations



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