R1 + R2 AT EVERY POINT, AND THE HIGHEST READING

FIFTY DOWNLIGHTS. HOW MANY READINGS?

With the link in, go to **every point** on the circuit: every luminaire, every switch, every socket, every outlet. At each one, one probe on the **line terminal**, one on the **CPC terminal**, press test.

> ✋ **Every point means every point.** A room with fifty downlights is fifty readings. A point you skipped is a point you haven't proved has a CPC.

Keep the **highest** reading in your head, or jot each one down. That highest reading is what you record as the circuit's $R_1 + R_2$ on the schedule of test results.

- **Expect low numbers on short runs.** A short demonstration circuit can read a few hundredths of an ohm.
- **Don't be alarmed by an ohm or more** on a long lighting circuit in 1 mm^2. Length and a small conductor both push resistance up.
- **At a switch** you are proving the CPC is there. One reading on a line conductor at the switch does it; the switch itself doesn't need operating.

> **Metal switches and accessories**
>
> are exposed-conductive-parts. The CPC reaching their earth terminal is exactly what this test is proving.

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