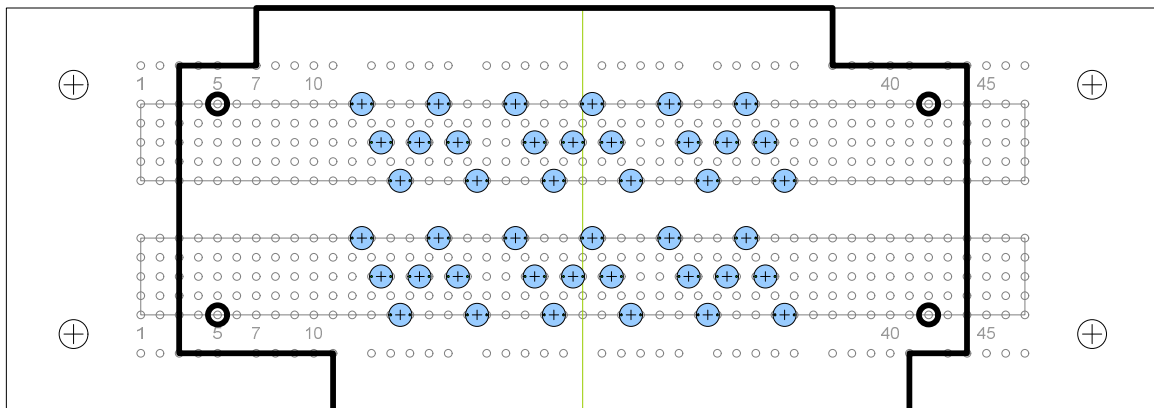


24 Volt LED Luminaire for Indoor/Outdoor Lighting



- ❖ Adjustable voltage regulator, set to about 23.4 Vdc output, allowing wide range (higher) input voltage;
- ❖ Resistors and capacitors as required for the regulator;
- ❖ 6 parallel strings of White LEDs, driven by the constant voltage regulator (23.4 V);
- ❖ Each string consisting of a series of 7 LEDs and a resistor to trim current;
- ❖ Solder breadboard, trimmed to fit enclosure;
- ❖ Enclosure with clear lid, and drilled holes (with glued screens) to allow air cooling (and keep bugs out).
- ❖ Electronic design resulting in too much current drifting, and fiddly manual set-up;
- ❖ Too much heating, resulting in overly fast decrease in LED luminance (light output) over time;
- ❖ Soldering/mounting problems, resulting in board-level string failures in outdoor seasonal cycling.