LED Plant Growth Tests. LED lights from Chevy Lights using Indoor Growing Structures from LivingApartment, testing done LivingApartment Australia.

Test 1:- **Field Peas** in 6x165mm round pots, in this test we have used a LA 2 level growing stand, but we have only used the bottom level, its external lateral measurements are 650mm by 350mm, the stand is enclosed by mirror reflective sheets with 87% reflectivity. The lights are 3x7W 1W LEDs(CL) each with a ratio of 6 blue to 1 red.
The lights are held in position by flexible clamp lamps and they are at 450mm from the growing tips, they are set to be on 24 hours a day. These pictures were taken on a Saturday and the seeds were planted the previous Sunday meaning this is the result of six days growth the lights were only turned on after the third day ie lights have been on for approximately 3.5 days.
The close up picture on the right shows abundant leaf development with very little stalk, this is the ideal result for growing this sort of short term salad green. An ideal solution for the home or restaurant at under 30 W of power at say four days giving you an approximate power cost of 24hr x 4d x 30W x 0.012C/hr = $0.35/6pots = $0.06/pot. Based on (12c/KwHr -> 0.012c/wHr)
The growing medium is coconut fibre the nutrient is a combination of liquid Seaweed with humic acid, Azomite a trace element mix and Dolomite, all natural materials.

Field Peas
Day 6