

FULL SPECTRUM Growlight: Abel 80W

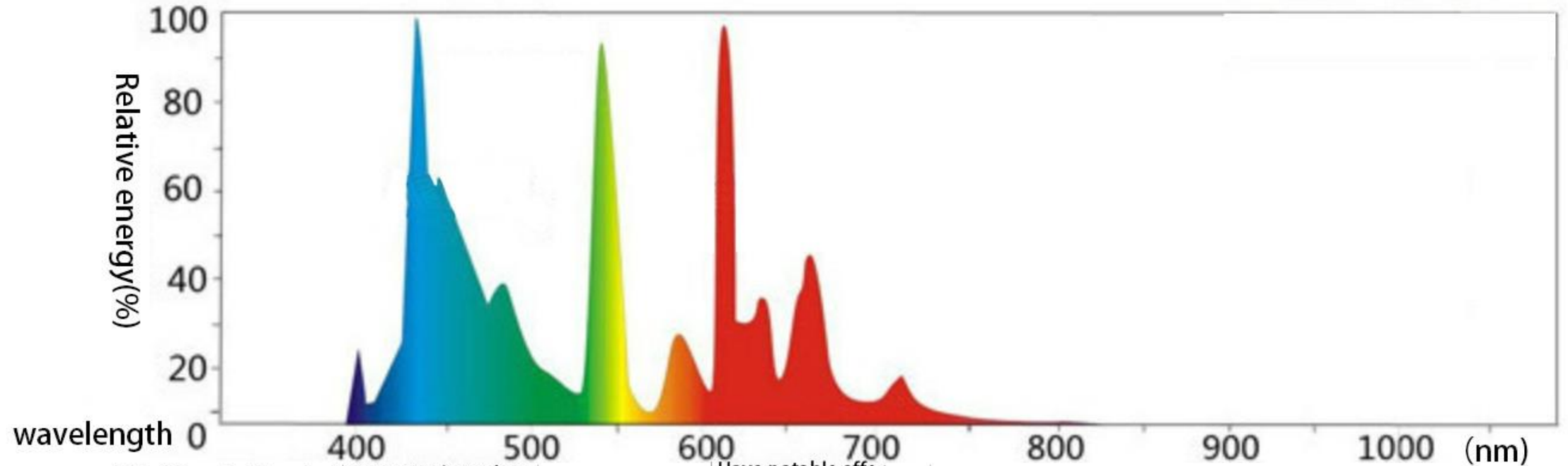


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Requirement of plant growth



315-400nm Let the plant become shorter, leaves become fleshy, promote seedling. Below 280nm is harmful to plant growth, the plant will wither.

Promote plant photosynthesis. Chlorophyll and carotenoids absorb the largest percentage of blue light. If lack of blue light will make plant dwarf or yellow.

Less effect on photosynthesis, but provide nutrients for plants.

Have notable effect on photosynthesis and photoperiodic effects, can make plant grow fast, influencing seedling and flowering.

720 740

800nm less effect on photosynthesis, >1000nm convert into heat.

Influencing flowering and seedling, especially indoor or place without sunlight need this.

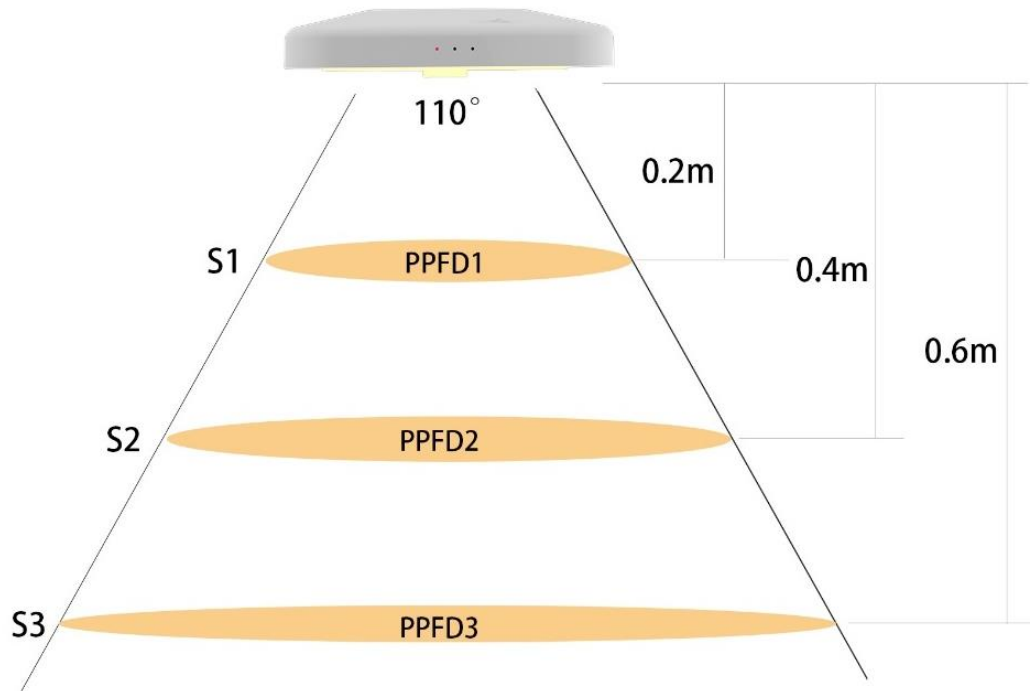
Full Spectrum Growlight Abel 80W —Function



- 1、 Provide light for herbs, fruits, vegetables, flowers and other heliophile indoor to achieve normal photosynthesis of plants.
- 2、 Provide light for Smart growpot maisie and other potted plants.
- 3、 Adjust the height of lamp to meet the different requirements of light intensity for each growing stage. The highest leave of plant is 20-40cm below the lamp
- 4、 Can work together with smart growpot Maisie, control the light, temperature, humidity, nutrition, etc, let the plants grow faster, flowering earlier and mature faster.
- 5、 Two or more growlight can be connected by line, control servel growlight at same time so that the plant will flower as intended.
- 6、 Built-in ventilation to help the lamp heatsink, at the same time enabling the air flow around the plant and increase wentilation.
- 7、 Built-in overheating protection: when the inside temperature of lamp is too high, the light intensity will be reduced automatically to protect the product.
- 8、 Hours for day and night in seedling, growing and flowering stage 20H/4H、 18H/6H、 12H/12H。

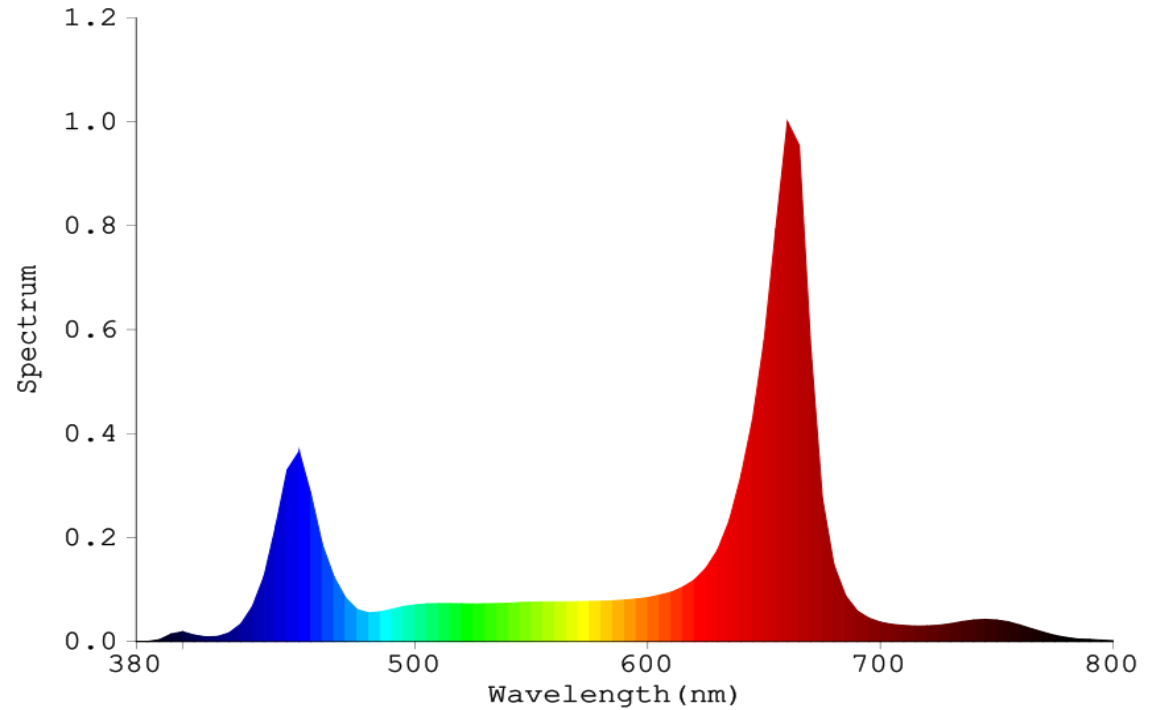
Full Spectrum Growlight Abel 80W—PPFD

Irradiated Area and PPFD

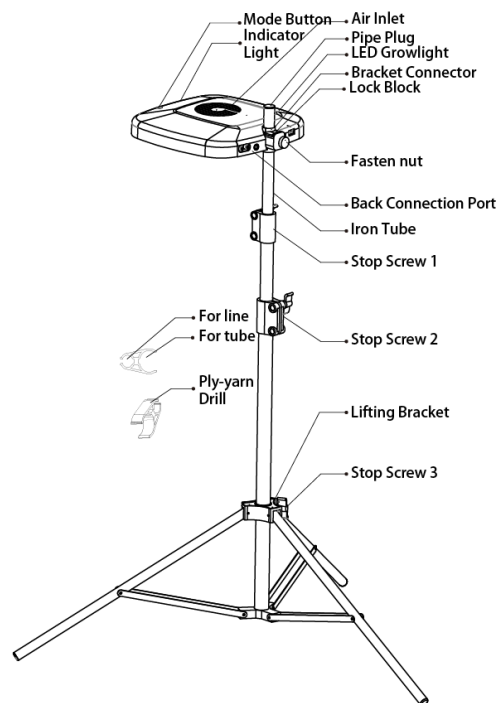


80W	S1	S2	S3
Arae(m²)	0.4	1.3	2.7
PPFD(μmol/m²/s)	1200	480	220

PPFD distribution curve

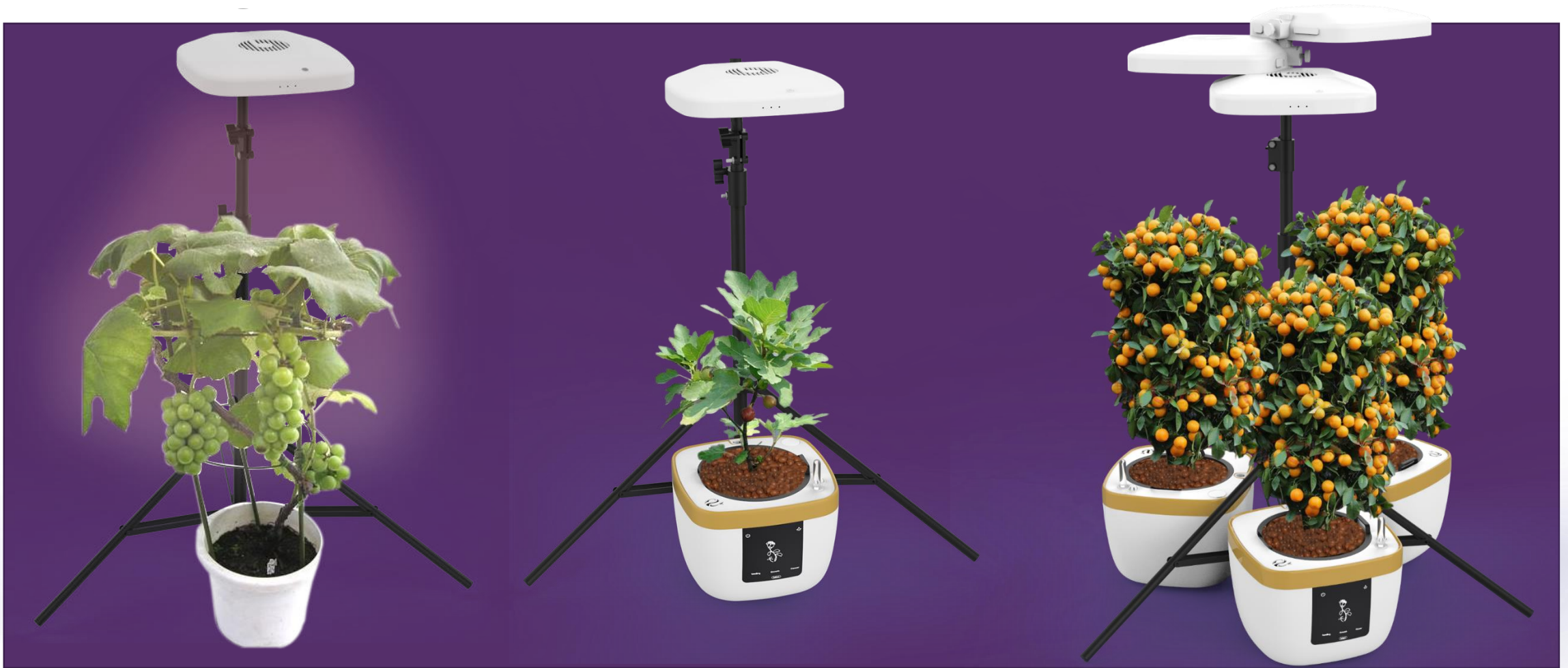


Full Spectrum Growlight Abel 80W—Specification



Product Name	80W grow light	Beam angle	110°
Material	ABS	Main wavelength	390、450、470、630、660、730nm
Input voltage	DC36V	Net weight	3000g
Current	2.3A	Working Temperature	0°C—40°C
Output power(Max.)	80W	Warranty	1yrs
Lamp Height(adjustable)	50cm-180cm	Certification	CE/FCC/ROHS
PPFD(20cm)	≥1200(μmol/m²s)	Product size	260*260*190
Red: blue (seedling)	2.5:1	IP level	IP20
Red: blue (Flower)	3: 1		

Full Spectrum Growlight Abel 80W——Plants



Usage method1

Usage method2

Usage method3

Test1-Planting



15days, 4 pieces of euphylla,
Lux of the leaves' surface
 $190\mu\text{mol}/\text{m}^2/\text{s}$



19days



28days



42days, inside ventilation, temperature
 20° , humidity:50%RH



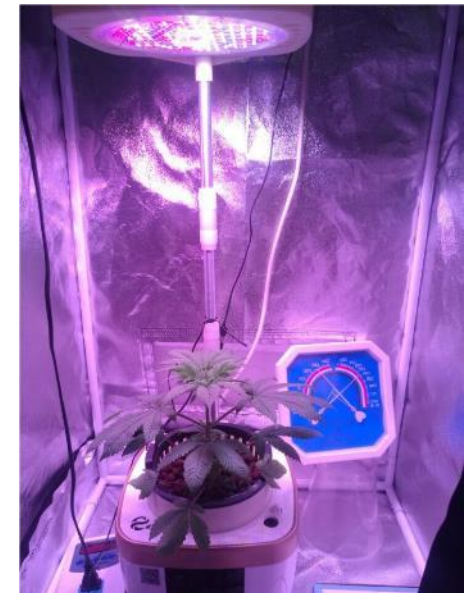
48days



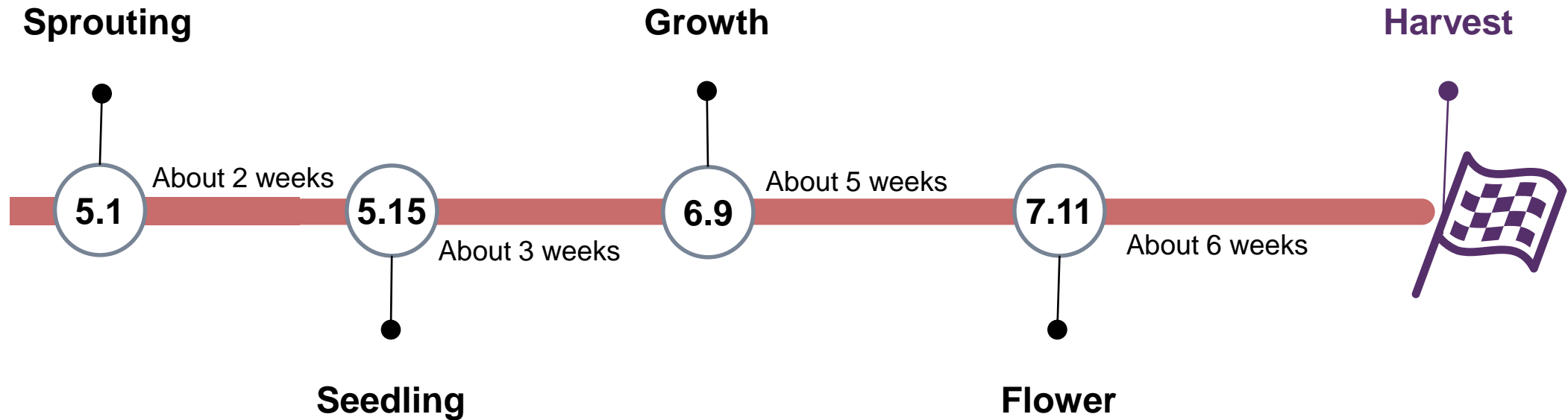
55days, 39CM,
lux 360 $190\mu\text{mol}/\text{m}^2/\text{s}$



65days, bud appeared



Planting time axis



Look at the test below

Test2-Planting

Seedling



20180515



20180530

Test2-Planting

Seedling



20180602



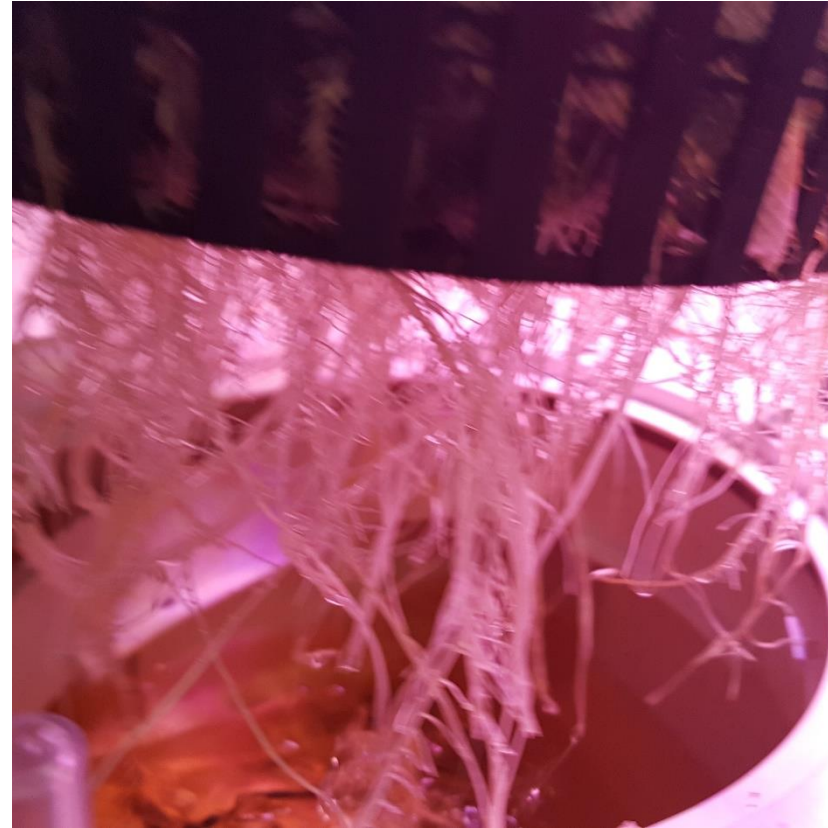
20180602

Test2-Planting

Growth



20180609



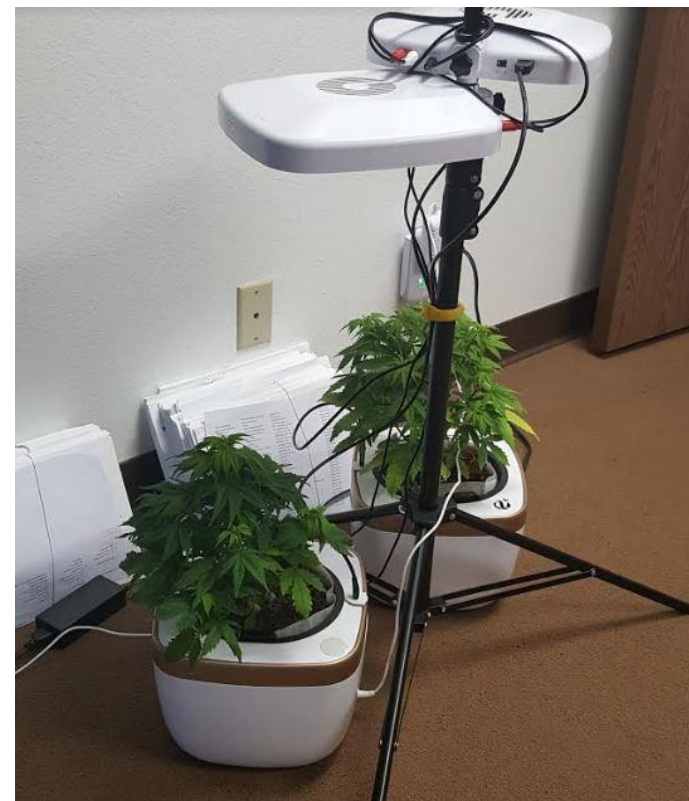
20180612 root system

Test2-Planting

Growth



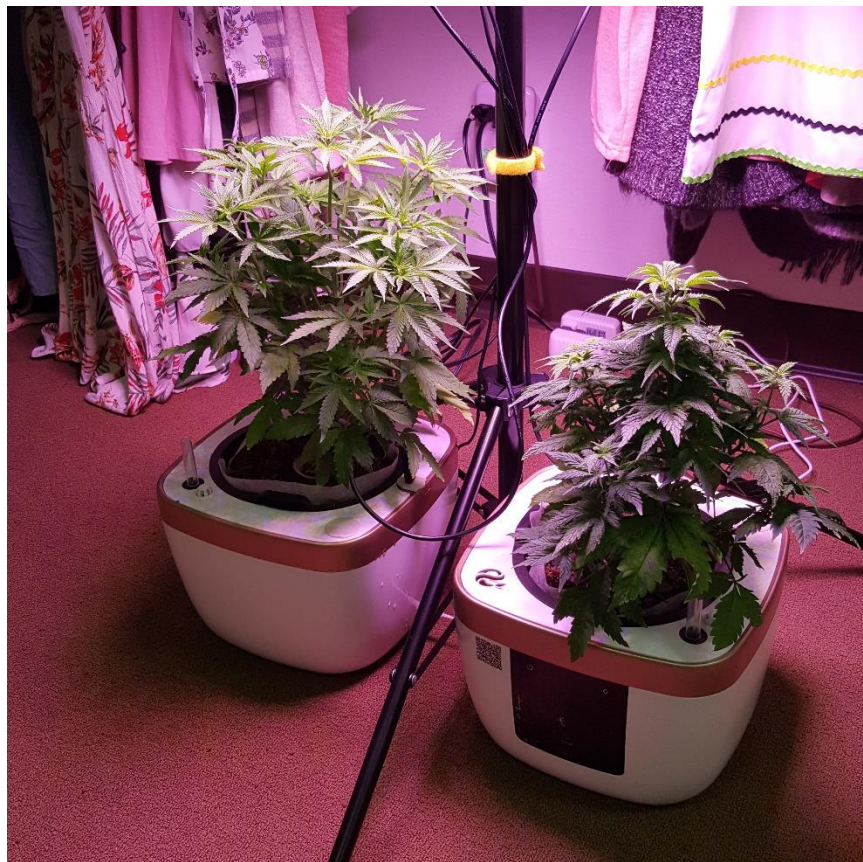
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20180620

Test2-Planting

Growth



20180622



20180626

Test2-Planting

Growth



20180630

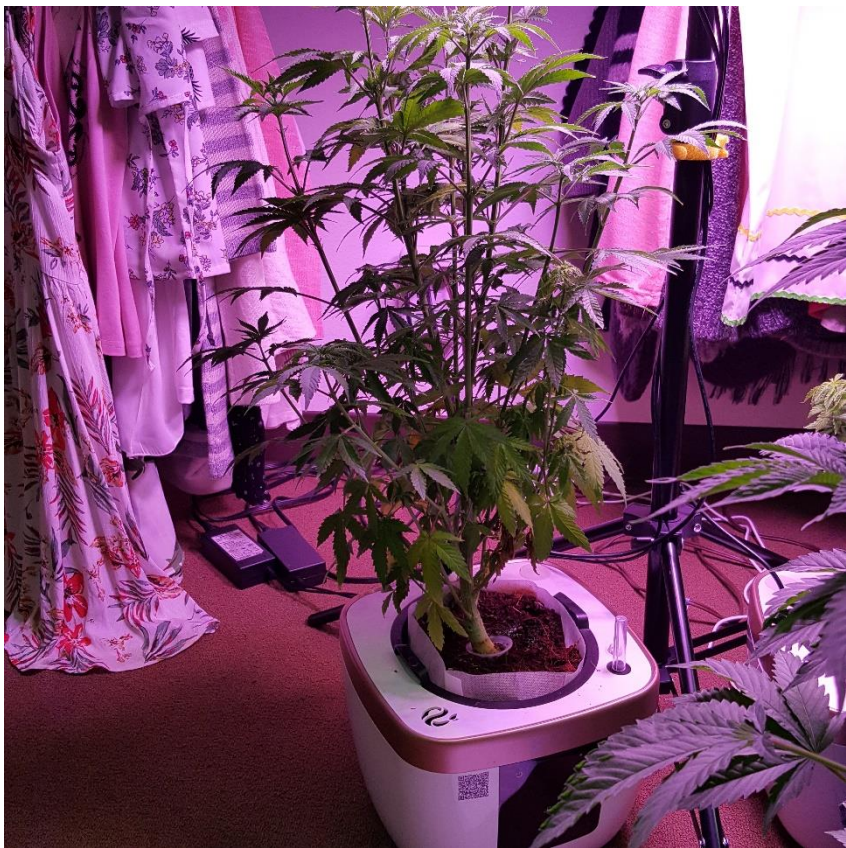
The state of
hydroponics



20180703

Test2-Planting

Flower



20180711



20180725

Test2-Planting

Flower



20180804



Before the buds open.