LED - "IT'S NOT JUST ABOUT LIGHT"



PhytoLux



PHYTOLUX SEMINAR N "IT'S NOT JUST
ABOUT LIGHT"

Introduction

- PhytoLux is a UK company involved in plant growth technology since 2011
- Focused on developing specialist knowledge
- Developed a uniquely engineered design offering commercially viable solutions to the industry
- Working in partnership with over 60 UK clients
- Knowledge in the application and use of LED Plant Growth Lights







Technological Advantages







Market applications











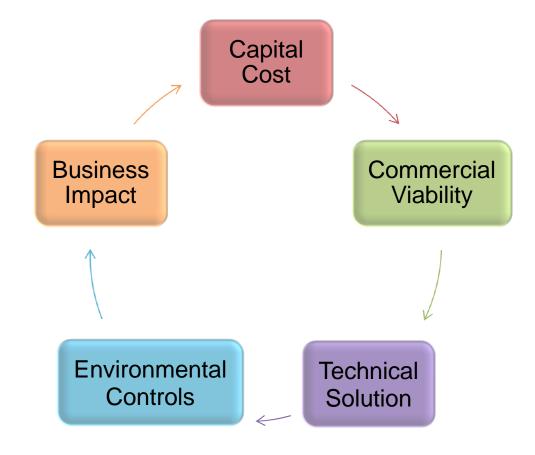


LED – It's not just about light!





It's not just about light

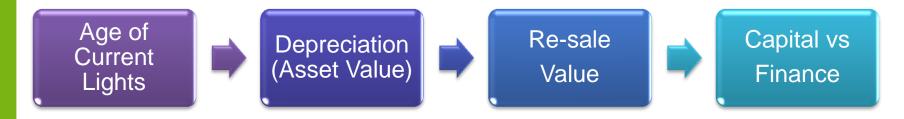






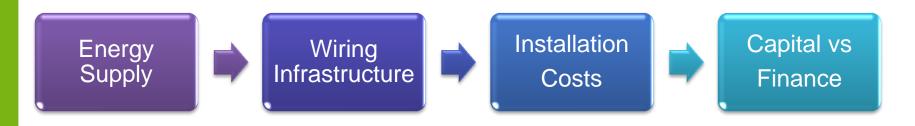
Capital cost

Currently lighting your crop



Return on Investment

Not currently lighting your crop









Commercial Viability

Return on Investment

Season extension Or All year round growing Maximum yield regardless of cost
Or
Optimum but profitable yield

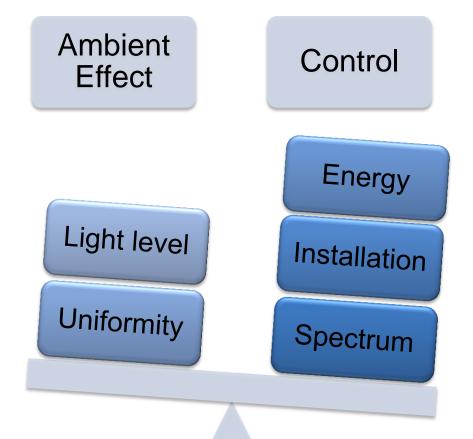
Operating costs
Energy costs
Maintenance
costs
Heating /
cooling costs
Staff costs







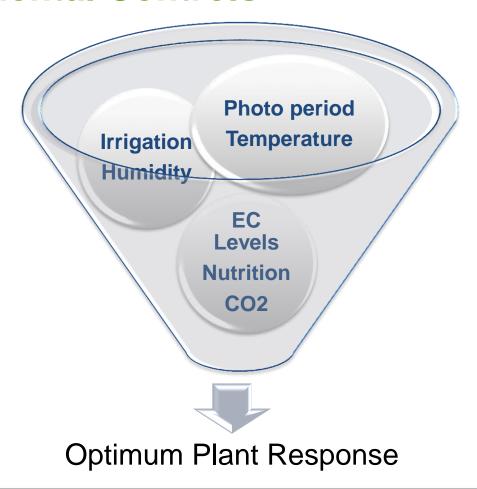
Technical Solution







Environmental Controls









Irrigation interval

Example:

Cypres grass tests at Syngenta Jeallotts Hill.

Intervals used:

- Every other day
- Once per day
- > Twice per day
- Three times per day







Every Other Day



Once a Day





Twice a Day Three times a Day













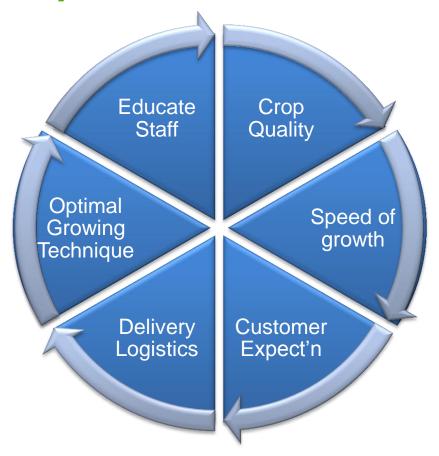
Twice a Day







Business Impact





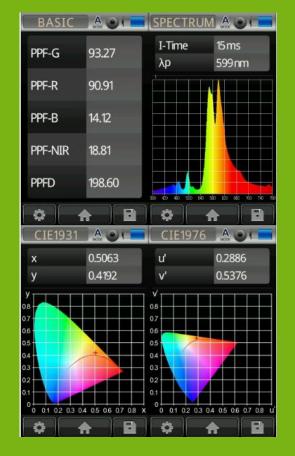


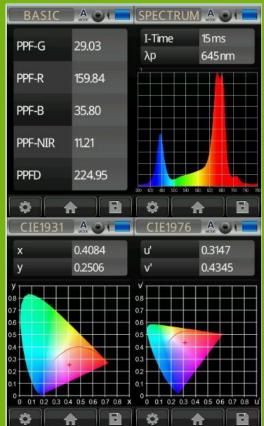


But light does matter







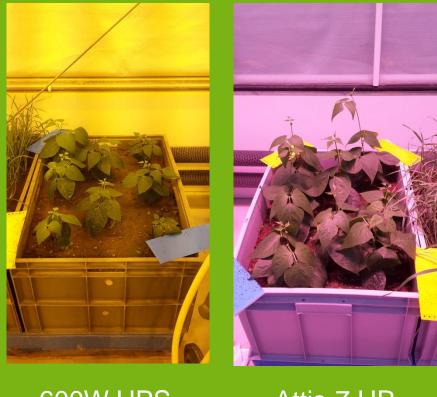


600W HPS

Attis-7 HR



Major Commercial Research Trials - French Bean



600W HPS

Attis-7 HR



Wheat







Attis-7 HR



Turnip







Attis-7 HR



Oil Seed Rape



600W HPS



Attis-7 HR



Lettuce



600W HPS



Attis-7 HR

