Science - Year 6

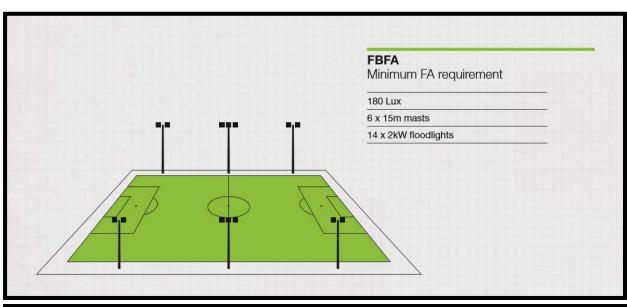
Second Look Science - Block 6SLS

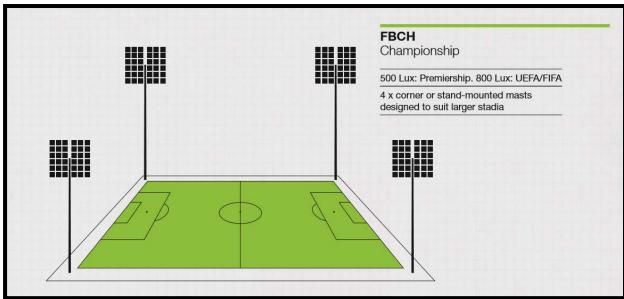
The Science of Sport

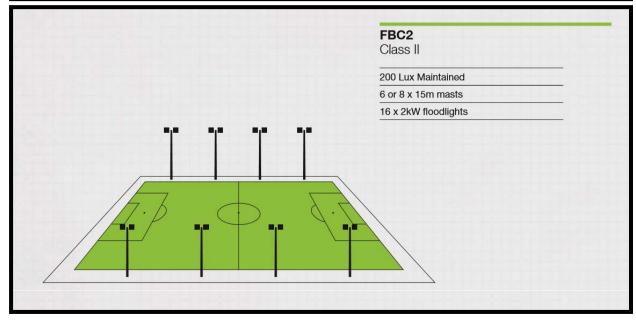
Session 6

Resource pack

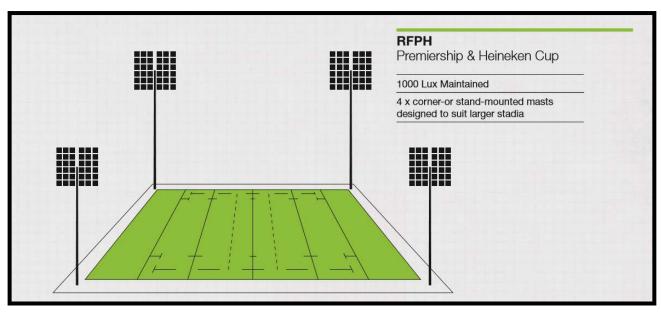
Stadium flood light designs – football

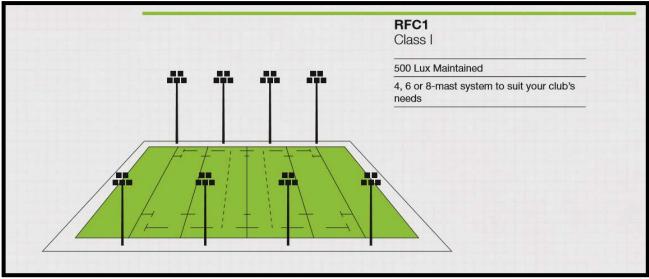


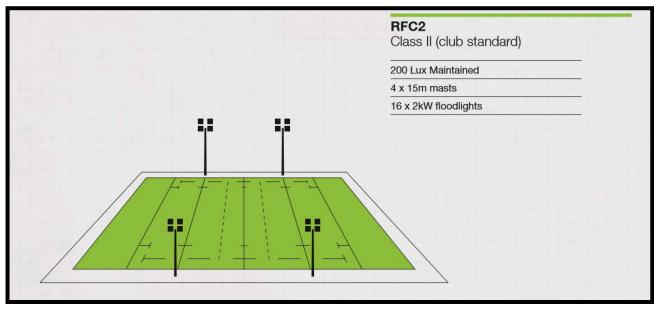




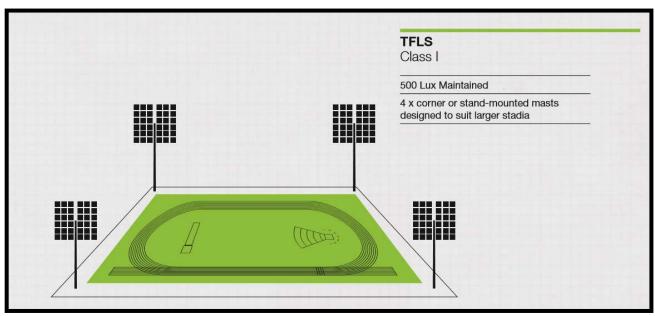
Stadium flood light designs - rugby

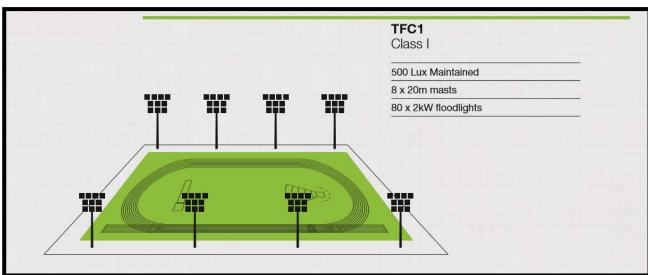


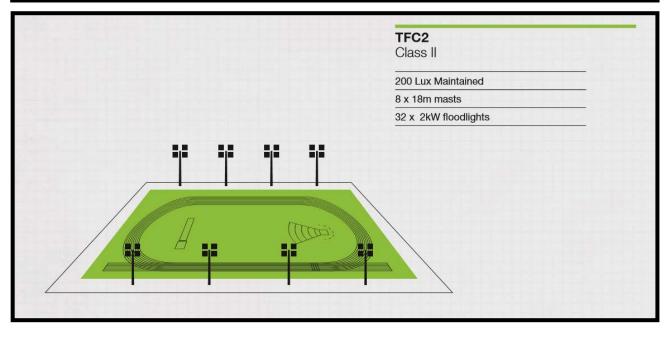




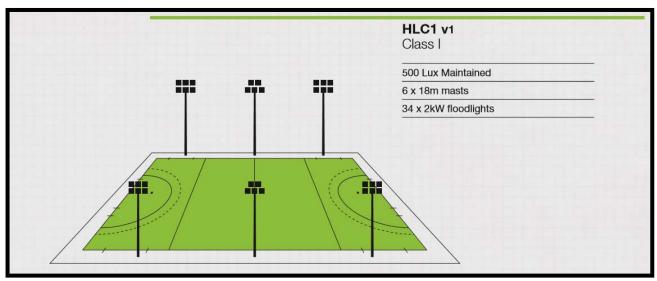
Stadium flood light designs – athletics track

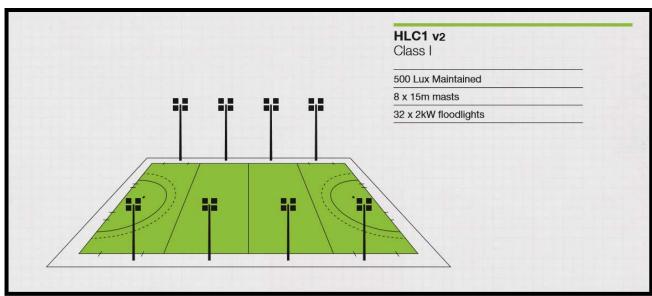


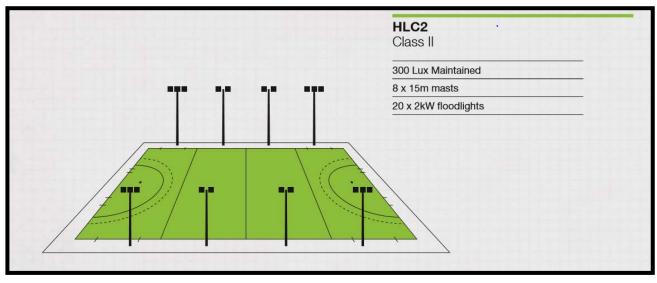




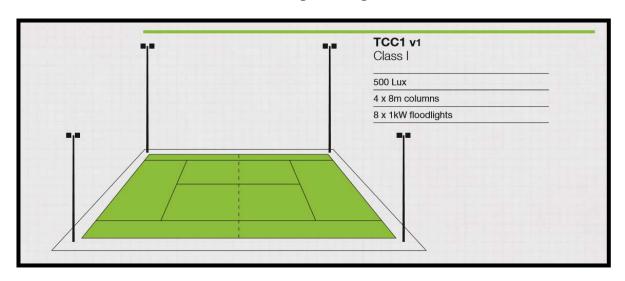
Stadium flood light designs - hockey

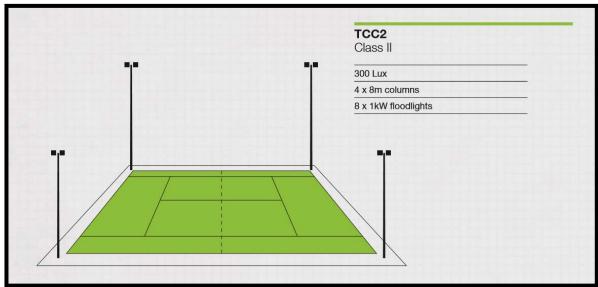


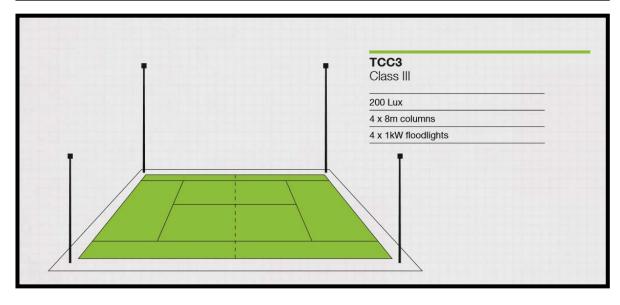




Stadium flood light designs - tennis



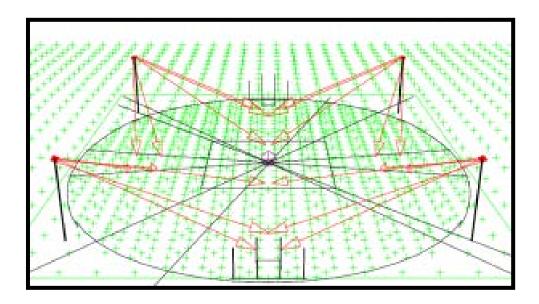




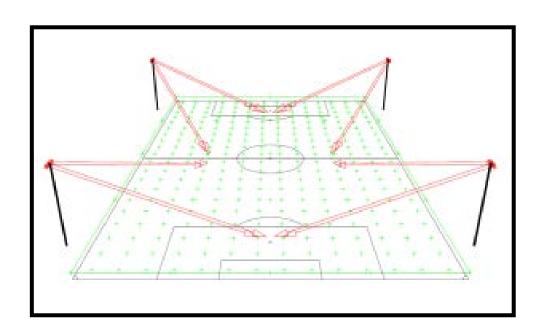
(http://www.abacuslighting.com/pdf/brochure-sports-lighting.pdf)

Light beams – various stadium examples

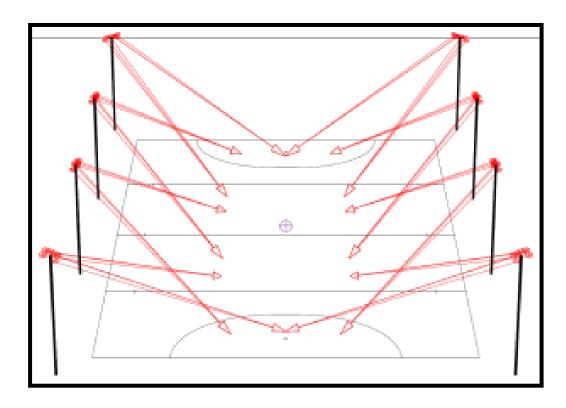
Cricket



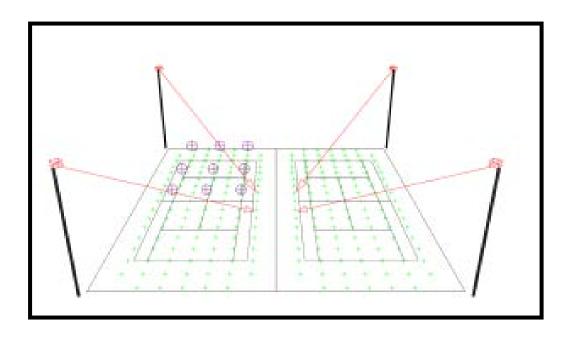
Football



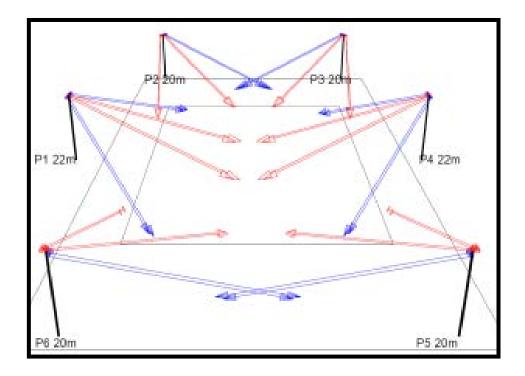
Hockey



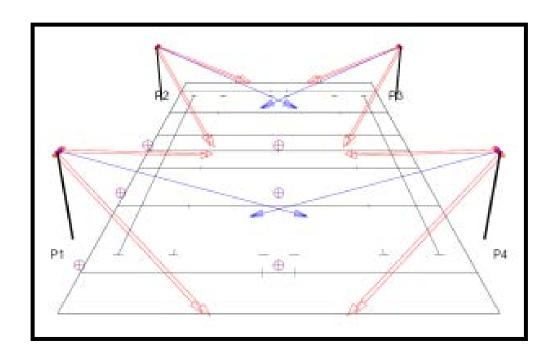
Tennis



Athletics



Rugby



Stadium flood light design brief

You have been asked to design and create a prototype for night time stadium flood lights. Consider the following as you develop and try out your ideas:

- 1. Choose which kind of stadium you are designing for
- 2. Draw a plan of the stadium and plan out 2-3 different configurations of lights
- 3. Draw a circuit diagram for your design thinking about the power to bulb ratio you want to use to achieve the best 'lux' for your stadium, and how many bulbs you will have on each light
- 4. Ensure you include a switch and a timer in your circuit
- 5. Try out your design thinking about the heights of the light stands, which direction the bulbs will be facing and any light encasings that you want to make to direct the light
- 6. Evaluate your designs and choose the best one, tweaking this to make your final prototype
- 7. Create a final circuit diagram to accompany your prototype, including the light angles
- 8. Research and make suggestions for alternative sources of energy

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Main circuit symbol

