

# Existing Lights

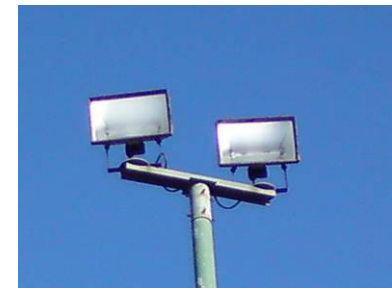
Existing lights 20 years old, fittings deteriorated, affected by wind

Sodium 400Watt lamps

No lenses, just spread light based on angle of light reflectors

All courts cause glare and lots of light pollution

NB: New rugby club lights are also simple floodlights



# Lights – Key Findings

Existing fittings obsolete and subject to deterioration due to spring fittings causing arcing in fittings, low bulb life, wind flicker

Planning permission requires new 'Dark Sky' lights which direct light through asymmetrical lenses – more light where it is required

Metal Halide lights produce a bluer/whiter light but Sodium light excellent for yellow ball illumination and allow eyes to adapt to dark conditions more quickly.

'Sodium' lights (HID SON) produce 50-80% more light per watt than Metal Halide

- Osram (SON) NAV-T 400w Super 4Y FLH1 – 141 lumens/Watt, 32,000 hour life (about 16 years of useful life!)
- Osram (Metal Halide) MT-1000 81 lumens per Watt, 9,000 hour life

New Sodium lights will require no change to electrical supply

The best lighting lights the face of the ball as it travels towards the player – i.e.: Lights should be behind the playing position, far lights do not need to illuminate opposite baseline, Court 1 & 2 poles badly placed to light ball flight



Rugby Club lights adjacent to Courts 4 & 5

# New Lights – Work Todate

Planning enquiry made – new light types required

LTA technical consultancy report obtained

LTA Club Mark achieved (prerequisite for grants)

Alternative layouts and lighting plans obtained



Examples of New Light types



# Proposed Upgrade

Get planning permission,  
asymmetrical lensed 'Dark  
Sky' Lights 400 Watt  
Sodium

Replace existing lights on  
1, 2 & 3 as soon as  
planning obtained and cash  
flow permits

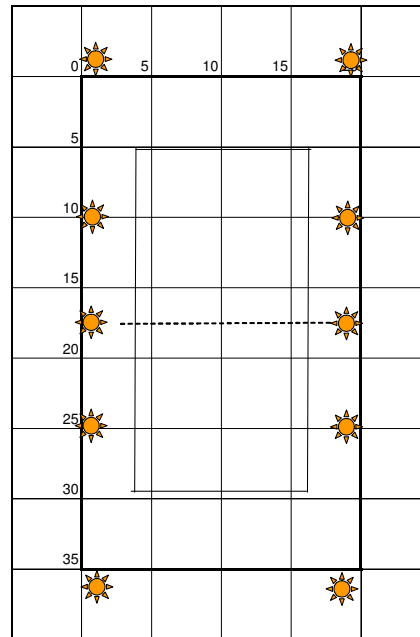
Obtain funding for and start  
Courts 4 & 5 stage 1 (6  
poles)

Upgrade 1 & 2 to add end  
poles and lights

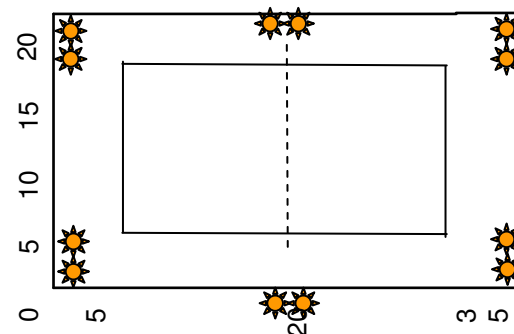
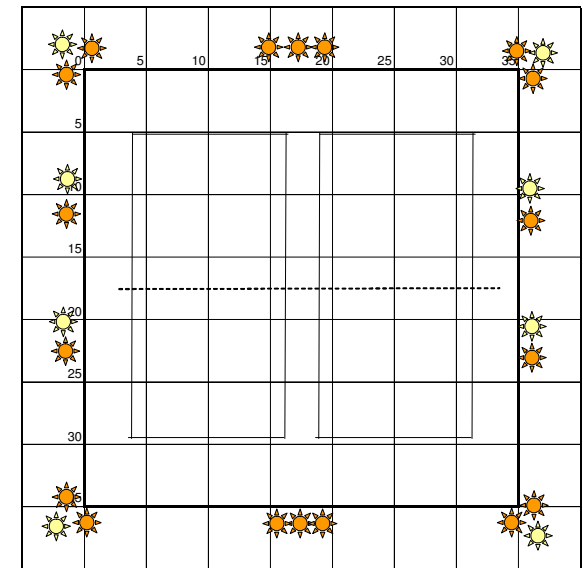
Upgrade 3 adding centre  
net lights

Upgrade 4&5 to ten poles

Courts 1&2 Final Configuration  
Proposed



Courts 4 & 5 Final Configuration



Court 3 final  
configuration