

Option 1 - Strategy Planning Proposals

Abacus®
Leaders in Lighting

FLOODLIGHTING EQUIPMENT:

10 x 15m MASTS (M1-M10)
2 x 10m MASTS (M11-M12)
2 x 8m MASTS (M13-M14)

M1...1 x WS250/1550W GEN7
...2 x WS270/1550W GEN7

M2,M3...2 x WS250/1550W GEN7
...1 x WS270/1550W GEN7

M4...1 x WS250/1550W GEN7
...2 x WS270/1550W GEN7
...1 x WS200/1550W GEN7

M5,M6...2 x WS250/1550W GEN7
...1 x WS270/1550W GEN7
...1 x WS200/1550W GEN7

M7...2 x WS250/1550W GEN7
...1 x WS200/1550W GEN7

M8...2 x WS250/1550W GEN7
...1 x WS270/1550W GEN7
...1 x WS250/1550W GEN7 @ 10m

M9...1 x WS200/1550W GEN7
...1 x WS270/1550W GEN7
...1 x WS290/1550W GEN7 @ 10m

M10...1 x WS250/1550W GEN7
...2 x WS270/1550W GEN7
...1 x WS200/1550W GEN7 @ 10m

M11,M12...1 x WS200/1550W GEN7
...1 x WS250/1550W GEN7

M13,M14...2 x AL6/101/32/162W
4 x AL6/101/32/162W @ 3m

HORIZONTAL ILLUMINANCE LEVELS

Synthetic Grass / MUGA (specified level)
Average Maintained Horizontal Illuminance (E_{h,m}): 200 lx
Uniformity Ratio (E_{h,min} / E_{h,max}): 0.05

5 V 5 (specified level)
Average Maintained Horizontal Illuminance (E_{h,m}): 100 lx
Uniformity Ratio (E_{h,min} / E_{h,max}): 0.25

Synthetic (calculated level)
Average Initial Horizontal Illuminance (E_{h,i}): 360 lx
Average Maintained Horizontal Illuminance (E_{h,m}): 325 lx
Uniformity Ratio (E_{h,min} / E_{h,max}): 0.31

Grass (calculated level)
Average Initial Horizontal Illuminance (E_{h,i}): 275 lx
Average Maintained Horizontal Illuminance (E_{h,m}): 247 lx
Uniformity Ratio (E_{h,min} / E_{h,max}): 0.29

MUGA (calculated level)
Average Initial Horizontal Illuminance (E_{h,i}): 363 lx
Average Maintained Horizontal Illuminance (E_{h,m}): 327 lx
Uniformity Ratio (E_{h,min} / E_{h,max}): 0.6

5 V 5 (calculated level)
Average Initial Horizontal Illuminance (E_{h,i}): 118 lx
Average Maintained Horizontal Illuminance (E_{h,m}): 106 lx
Uniformity Ratio (E_{h,min} / E_{h,max}): 0.55

Grid Intervals: 5x5m
Maintenance Factor: 0.9

Based Upon:
- Luminaire depreciation due to dirt
- Medium Pollution
- Pre-season cleaning of floodlights

Initial Levels Shown
Figures taken with no over spill from adjacent pitch types
LLP has not been run on any surrounding properties.

Lighting Project: Horizontal Illuminance Levels

Title: EBCSA Pitches
Design Ref: UKS17805/1

Design By: ROB SCOTT
Date: 14/04/2021 Scale: 1:750 @ A1

Revisions From Previous Design:
REVISED SITE LAYOUT



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