

FOODLIGHTING EQUIPMENT:

4 x 15m New Masts Each Carrying the Following New Challenger 1 LED Floodlights

M1 1 x AL6101 / 15752SI + FS2 + RS2
1 x AL6102 / 15752SI + RS2
M2 & M3... 1 x AL6102 / 15752SI + RS2
M4 1 x AL6101 / 15752SI + FS2 + RS2
1 x AL6102 / 15752SI + RS2

4 x 12m Existing Masts Each Carrying the Following New Challenger 1 LED Floodlights

M5 - M8..... 1 x AL6102 / 15752SI + RS2

Maximum Elevation 68°

HORIZONTAL ILLUMINANCE LEVELS

Training Pitch (specified level)

Average Maintained Horizontal Illuminance (Eh.m): 100 lx
Uniformity Ratio (E.min / E.av): 0.5

Training Pitch (Calculated level)

Average Initial Horizontal Illuminance (Eh.m): 150 lx
Average Maintained Horizontal Illuminance (Eh.m): 135 lx
Uniformity Ratio (E.min / E.av): 0.17

Surrounding Area (Calculated level)

Average Initial Horizontal Illuminance (Eh.m): 100 lx
Average Maintained Horizontal Illuminance (Eh.m): 90 lx
Uniformity Ratio (E.min / E.av): 0.09

GR_{max} = 49

Grid Intervals 5x5m
Maintenance Factor: 0.9

Based Upon:

- Luminaires depreciation due to dirt
- Medium Pollution
- Pre-season cleaning of floodlights

Notes:

- Figures taken with no over spill from adjacent Lighting
- Mast location and pitch scale Provided by customer. Please check prior to ordering

Initial Levels Shown

Obtrusive Light - Compliance Report

CIE 150:2017, E3-Medium District Brightness, Pre-Curfew
Filename: UKS18059_11_YYG Rugby Pitch
06/04/2022 08:00:02

Illuminance

Maximum Allowable Value: 10 Lux

Calculations Tested (9):

Calculation Label	Max. Illum.
Pontycapel Road_III_Seg1	10
Pontycapel Road 1_III_Seg1	10
Pontycapel Road 2_III_Seg1	1
Heol-Y-Cae_III_Seg1	33
Cyfarthfa 1_III_Seg1	11
Cyfarthfa 2_III_Seg1	3
Cyfarthfa 3_III_Seg1	2
Cyfarthfa Front_III_Seg1	3

