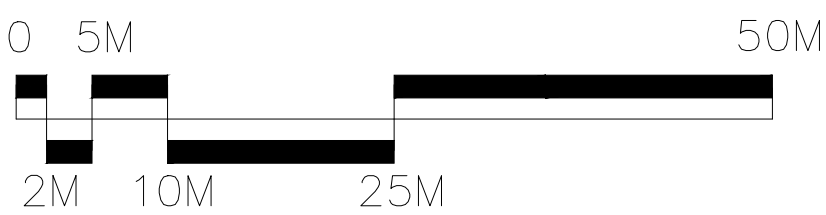


Knowsley MBC - Jubilee Park

Creation of an Artificial Grass Pitch





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Floodlight System
6no. Columns 10m high
Lighting Design meets the requirements of the FA Guide to Floodlighting

Property	Standard	Maintained
11v11 Maintained Avg Illuminance	≥200 Lux	234 Lux
11v11 Min/Avg Uniformity	≥0.6	0.60

Design in accordance with ILP Guidance Note 1 (2021) For The Reduction Of Obtrusive Light and adheres to the requirements of an E3 Environmental Zone.

0% Upward Light Ratio
<1lux on vertical illuminance on adjacent residential Properties
Pre-curfew and <0.1lux post-curfew.

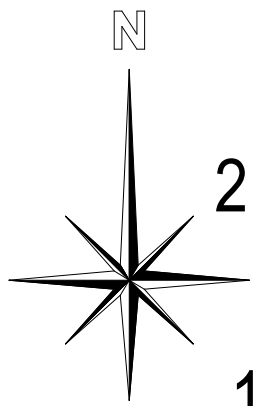
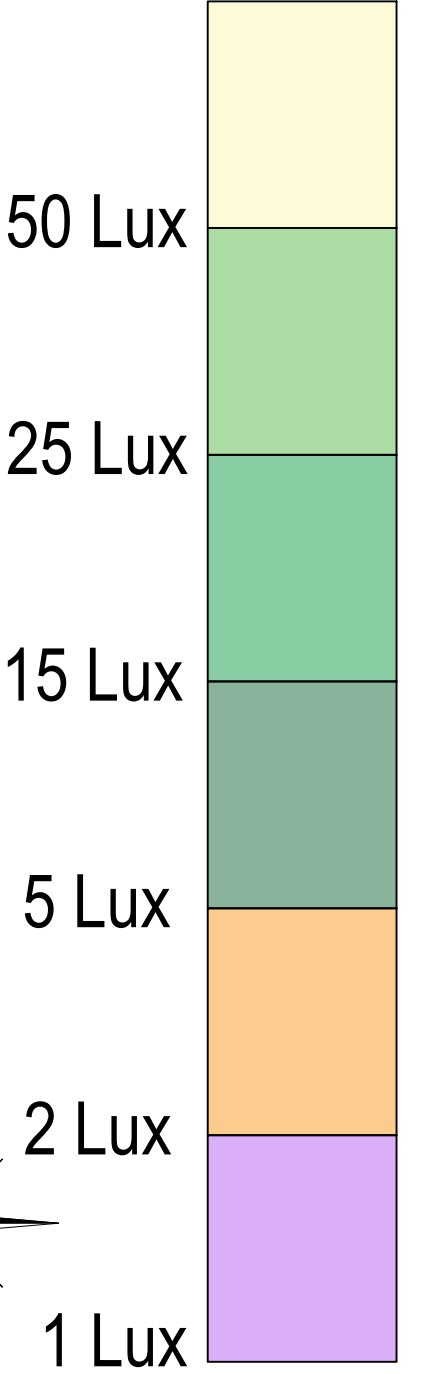


Chart of example lux levels for reference

Lighting conditions	Lux level	Lighting conditions	Lux level
British summer sunshine	50,000	Typical side road lighting	5
Overcast sky	5,000	Minimum security lighting	2
Well-lit office	500	Twilight	1
Minimum for easy reading	300	Clear full moon	0.25 to <1
Passageway or outside working area	50	Typical moonlight/cloudy sky	0.1
Good main road lighting	5-20	Typical starlight	0.001
Sunset	10	Poor starlight	0.0001

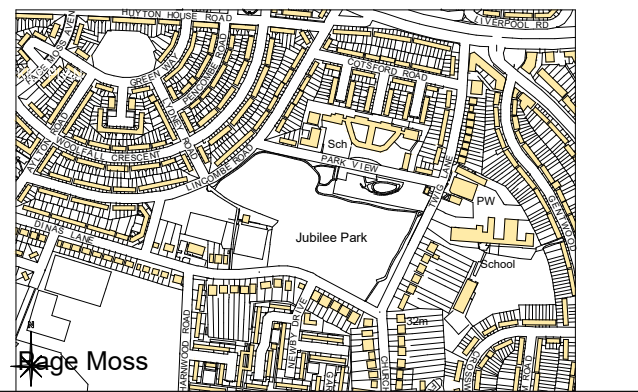
Source: IPCCTV specialists use-IP Ltd

Horizontal Ground Spillage

01	PLANNING ISSUE - AGP moved north	ME	WB	22/06/24
00	PLANNING ISSUE	ME	WB	19.12.23
REV	DESCRIPTION	REV	CK	DATE



Surfacing Standards Limited
SPORTS PITCH CONSULTANTS



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