



Abacus®

Leaders in Lighting

LIGHTING EQUIPMENT

1 x 20m Existing Masts Each Carrying the Following New Challenger 1 Floodlights
M1... 5 x AL6001 (pos A) / MHN-FC 2200W/640 400V XW

3 x 18m Existing Masts Each Carrying the Following New Challenger 1 Floodlights
M2... 2 x AL6001 (pos A) / MHN-FC 2200W/640 400V XW
1 x AL6002 (pos A) / MHN-FC 2200W/640 400V XW
1 x AL6001 (pos A) + cowl 6 / MHN-FC 2200W/640 400V XW
M3... 1 x AL6001 (pos A) + cowl 3 / MHN-FC 2200W/640 400V XW
1 x AL6001 (pos A) + cowl 5 / MHN-FC 2200W/640 400V XW
1 x AL6002 (pos A) + cowl 4 / MHN-FC 2200W/640 400V XW
M4... 3 x AL6001 (pos A) + cowl 3 / MHN-FC 2200W/640 400V XW
1 x AL6002 (pos A) + cowl 3 / MHN-FC 2200W/640 400V XW

LAMP

MHN-FC 2200W/640 400V XW (232,000 l.m)

HORIZONTAL ILLUMINANCE LEVELS

Football pitch (specified level)
Average Maintained Horizontal Illuminance (Eh.m): 200 lx
Uniformity Ratio (E.min / E.av): 0.6

Football Pitch (calculated level)
Average Initial Horizontal Illuminance (Eh.m): 206 lx
Average Maintained Horizontal Illuminance (Eh.m): 206 lx
Uniformity Ratio (E.min / E.av): 0.46

Glare Rating: GRmax = 58

Maintenance Factor: 0.8
Based Upon:
- Luminaires depreciation due to dirt
- Lamp lumen depreciation
- Medium Pollution
- Pre-season cleaning of floodlights

Grid Intervals: 88 points
Initial Levels Shown

Obtrusive Light - Compliance Report
CIE 150:2003, E3-Suburban, Pre-Curfew
Filename: UKS17071_2 - Littlehampton FC
08/01/2020 14:09:44

Illuminance
Maximum Allowable Value: 10 Lux

Calculations Tested (18):	
Test	Max. Results
Calculation Label	Results
ObtrusiveLight_1_III_Seg1	PASS 4
ObtrusiveLight_1_III_Seg2	PASS 5
ObtrusiveLight_2_III_Seg1	PASS 8
ObtrusiveLight_3_III_Seg1	PASS 8
ObtrusiveLight_4_III_Seg1	PASS 3
ObtrusiveLight_5_III_Seg1	PASS 2
ObtrusiveLight_6_III_Seg1	PASS 7
ObtrusiveLight_6_III_Seg2	PASS 4
ObtrusiveLight_6_III_Seg3	PASS 10
ObtrusiveLight_7_III_Seg1	PASS 10
ObtrusiveLight_8_III_Seg1	PASS 10
ObtrusiveLight_9_III_Seg1	PASS 7
ObtrusiveLight_10_III_Seg1	PASS 6
ObtrusiveLight_11_III_Seg1	PASS 5
ObtrusiveLight_12_III_Seg1	PASS 4
ObtrusiveLight_14_III_Seg1	PASS 2
ObtrusiveLight_15_III_Seg1	PASS 1
ObtrusiveLight_13_III_Seg1	PASS 10

Luminous Intensity (Cd) At Vertical Planes
Maximum Allowable Value: 10000 Cd

Calculations Tested (18):	
Test	Results
Calculation Label	Results
ObtrusiveLight_1_Cd_Seg1	FAIL
ObtrusiveLight_1_Cd_Seg2	FAIL
ObtrusiveLight_2_Cd_Seg1	FAIL
ObtrusiveLight_3_Cd_Seg1	FAIL
ObtrusiveLight_4_Cd_Seg1	FAIL
ObtrusiveLight_5_Cd_Seg1	FAIL
ObtrusiveLight_6_Cd_Seg1	FAIL
ObtrusiveLight_6_Cd_Seg2	FAIL
ObtrusiveLight_6_Cd_Seg3	FAIL
ObtrusiveLight_7_Cd_Seg1	FAIL
ObtrusiveLight_8_Cd_Seg1	FAIL
ObtrusiveLight_9_Cd_Seg1	FAIL
ObtrusiveLight_10_Cd_Seg1	FAIL
ObtrusiveLight_11_Cd_Seg1	FAIL
ObtrusiveLight_12_Cd_Seg1	FAIL
ObtrusiveLight_14_Cd_Seg1	PASS
ObtrusiveLight_15_Cd_Seg1	PASS
ObtrusiveLight_13_Cd_Seg1	PASS



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Lighting Project: EXTERNAL FLOODLIGHTING

Title: LITTLEHAMPTON FC

Design Ref: UKS17071_2

Revision(s) From Previous Design:

Design By: Paweł Jarzębowski

Date: 8/01/2020 Scale: 1:500 @ A1

All illuminance values are the result of computer calculations, based upon precisely positioned luminaires in a fixed relationship to each other and to the area under examination. In practice the values may vary due to tolerances on luminaires, luminaire positioning, reflection properties and electrical supply.