



Luminaire Schedule - Total Luminaires						
Symbol	Tag	Qty	Description	Mounting Height (m)	Luminaire Watts	Luminaire Lumens
	A	8	AL6102_15752S1 + FS2 + RS2 3K Challenger 1 LED	15	1539.1	139111
	B	4	AL6101_15752S1 + FS2 + RS2 3K Challenger 1 LED	15	1504.3	139027
	C	2	AL6202_10752S1 + FS2 + RS2 3K Challenger 1 LED	15	1003	91862

Luminaire Schedule						
M1,M3,M4,M6						
Symbol	Tag	Qty	Description	Mounting Height (m)	Luminaire Watts	Luminaire Lumens
	A	1	AL6102_15752S1 + FS2 + RS2 3K Challenger 1 LED	15	1539.1	139111
	B	1	AL6101_15752S1 + FS2 + RS2 3K Challenger 1 LED	15	1504.3	139027

Luminaire Schedule						
M2.M5						
Symbol	Tag	Qty	Description	Mounting Height (m)	Luminaire Watts	Luminaire Lumens
	A	2	AL6102, 10752S1 + FS2 + RS2 3K Challenger 1 LED	15	1539.1	139111
	C	1	AL6202, 10752S1 + FS2 + RS2 3K Challenger 1 LED	15	1003	91862

Horizontal Illuminance Levels Designed To Meet:				
Customer Specified Levels				
Label	CalcType	Units	Avg	Min/Avg
Rugby Pitch	Illuminance	Lux	200	0.60

Calculation Summary								
Initial Calculations								
Label	CalcType	Units	# Pts	Avg	Max	Min	Min/Avg	Min/Max
Rugby Pitch	Illuminance	Lux	77	227.8	419	147	0.65	0.35

Calculation Summary								
Maintained Calculations								
Label	CalcType	Units	# Pts	Avg	Max	Min	Min/Avg	Min/Max
Rugby Pitch	Illuminance	Lux	77	205.1	377	132	0.64	0.35

Area Summary		Glare Summary	
Label	Total Watts	Label	GRmax
Rugby Area	20336	Rugby Pitch	46

Isoline Legend	
Illuminance (Lux)	
Colour	Value
	2
	5
	10
	20
	50

Maintenance Factor: 0.9
Based upon:
LED lifetime L80B10: > 60,000 hours
Dirt depreciation factor based on BS5489-1:2020 Table C.1
12 month cleaning interval of luminaires

Calculation Grid Intervals		Area Dimensions		
Area	Grid	Area	L (m)	W (m)
Rugby	13 x 7	Pitch	90	60

Obtrusive Light - Compliance Report
CIE 150:2017, E3-Medium District Brightness, Pre-Curfew
Filename: UKS18143_1 4054826 Treasaris Rugby FC

■ Luminance
Maximum Allowable Value: 10 Lux

Calculation Label	Test Results	Max Illum
Pell St_III_Seg1	PASS	0
Webster St_III_Seg1	PASS	0
Webster St_1_III_Seg1	PASS	0
Webster St_2_III_Seg1	PASS	0
Forest Rd_III_Seg1	PASS	1
Forest Rd_1_III_Seg1	PASS	0
Forest Rd_2_III_Seg1	PASS	1
Forest Rd_2_III_Seg2	PASS	1
Evan St_III_Seg1	PASS	0
Evan St_1_III_Seg1	PASS	0

TreeLine_II_Seg1	3.4
TreeLine_II_Seg2	4.2
TreeLine_II_Seg3	3.8
TreeLine_II_Seg4	10.7
TreeLine_II_Seg5	6.6
TreeLine_II_Seg6	3.0
TreeLine_II_Seg7	1.6
TreeLine_II_Seg8	1.3
TreeLine_II_Seg9	1.7
Roadside_III_Seg1	12.0
Roadside_III_Seg2	5.0
Roadside_III_Seg3	5.3
Roadside_III_Seg4	3.6

Notes:
This scheme has been developed based upon a flat and open area, where shadowing from buildings, plants and equipment have not been taken into consideration.

Drawing and mast locations converted from satellite image, please check dimensions before ordering and installing.

Customer to confirm suitability and structural integrity of existing masts prior to placing an order.

Initial levels shown on drawing