

Dimensions are not to be scaled from this drawing



Kingfisher Lighting

Part of the Luceco PLC group of companies



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BREEAM New Construction 2018 (UK)

Qty	Range	Light Source	Lamp Lumens	Circuit Watts	LinW	LOR	Luminaire Lumens	ULOR	Upward Lumens	RA	ART Hour Per Day	CO2 Calculation for year
36	Viva City PRO	60w LED FFWO	8760	60	146.00	300.0%	340700	0.0%	0	70	12	0.97 4204.80
9	Quattro	250w LED FFWO	36000	250	146.00	300.0%	328500	0.0%	0	60	12	2.38 9855.00
7	Quattro	120w LED FFWO	17145	125	127.00	300.0%	218875	0.0%	0	60	12	0.88 3633.50
21	Quattro LED	7.5w LED OC Optic	743	6	99.07	300.0%	55693	0.0%	0	70	12	0.16 669.85

Total Installation Lumens	604138.00	Total ULR	0.00%
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Table 1 compliance

Environmental zone	E3
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Total CO2 per year (tonnes)	4.29
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Sky Glow	Target	Achieved	Status
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Total Electrical consumption (kWh)	4.24
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Source Intensity (candelas)	10,000	Pass
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Note - we have not been able to calculate this as no housing is shown on the drawing

Post-curtain	1,000	Pass
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Note - we have assumed no fittings will be left on Post-curtain

Light Trespass into windows (Lux)	10	Pass
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Note - we have not been able to calculate this as no housing is shown on the drawing

Pre-curtain	2	Pass
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Note - we have assumed no fittings will be left on Post-curtain

Post-curtain	2	Pass
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Building Luminance (cd/m²)	10	Pass
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Compliance Status:		
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Plan 04	Reduction of night time light pollution	Pass
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Plan 03	Energy efficient external lighting	Pass
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Plan 01	Internal and external lighting levels	Pass
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Note - H&M in this report only applies to exterior lighting

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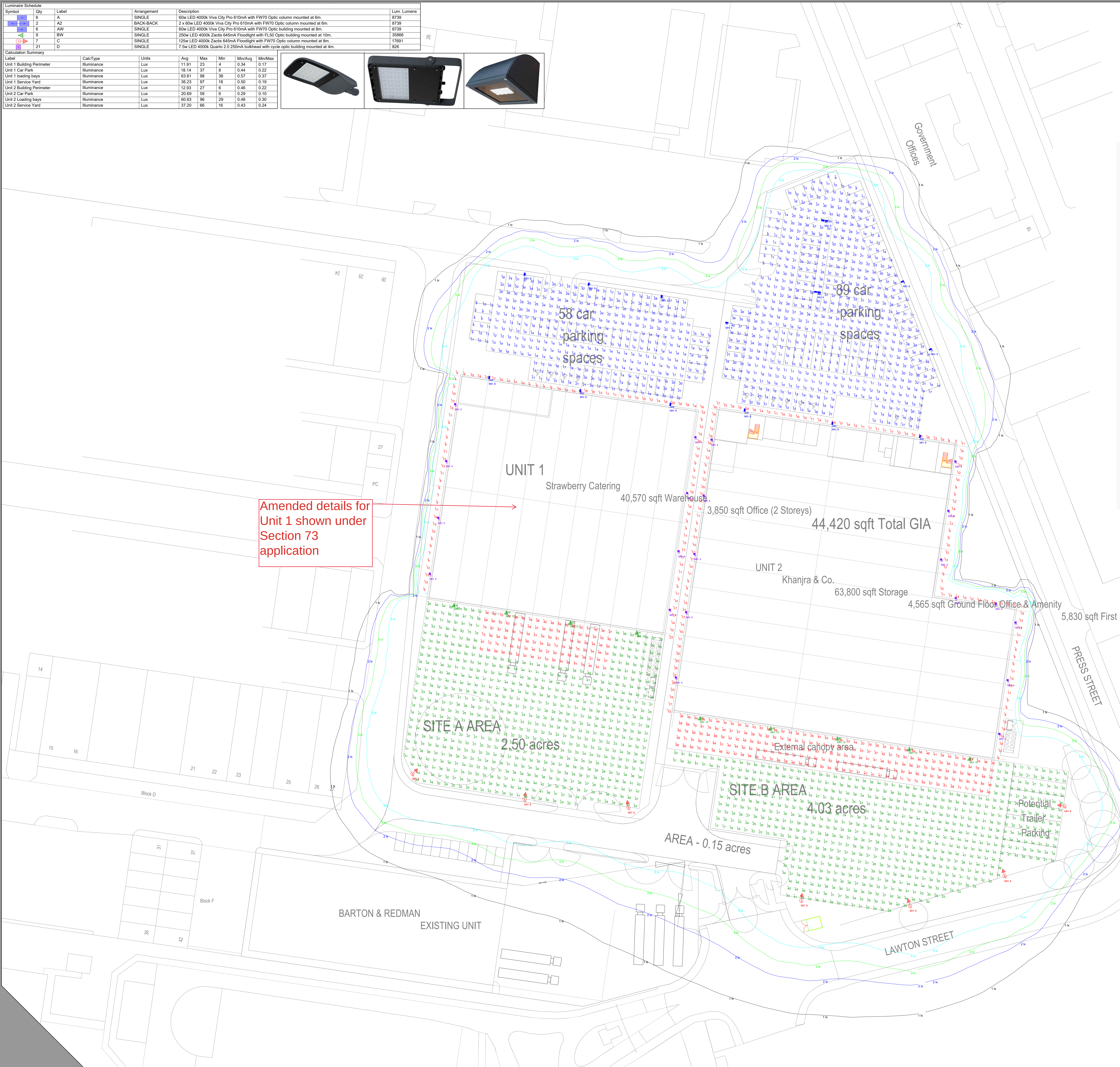


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Symbol	Qty	Label	Arrangement	Description	Lum. Lumens
1	1	A	SINGLE	60w LED 4000K Viva City Pro 610mA with FFWO Optic column mounted at 6m.	8739
2	2	A2	BACK-TO-TO	2 x 60w LED 4000K Viva City Pro 610mA with FFWO Optic column mounted at 6m.	8739
6	6	AW	SINGLE	60w LED 4000K Viva City Pro 610mA with FFWO Optic building mounted at 6m.	8739
9	9	BW	SINGLE	250w LED 4000K Zactis 645mA Floodlight with FFWO Optic building mounted at 15m.	36060
7	7	C	SINGLE	120w LED 4000K Zactis 645mA Floodlight with FFWO Optic building mounted at 15m.	17691
21	21	D	SINGLE	7.5w LED 4000K Quattro 2.0 250mA bulkhead with optic column mounted at 4m.	826

Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Unit 1 Building Perimeter	Luminaire	Lux	11.91	23	4	0.34	0.17
Unit 1 Car Park	Luminaire	Lux	18.14	37	8	0.44	0.22
Unit 1 Loading bays	Luminaire	Lux	63.91	98	36	0.57	0.37
Unit 1 Service Yard	Luminaire	Lux	36.23	97	18	0.50	0.19
Unit 2 Building Perimeter	Luminaire	Lux	12.93	27	6	0.46	0.22
Unit 2 Car Park	Luminaire	Lux	20.69	59	8	0.29	0.10
Unit 2 Loading bays	Luminaire	Lux	69.63	98	29	0.46	0.30
Unit 2 Service Yard	Luminaire	Lux	37.20	66	16	0.43	0.24



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Barton and Redman, New Smithfield Market, Manchester



For our LED lighting designs a 0.9m has been used. If this differs from the maintenance period for this project then you must advise us accordingly

A lighting applications design service is provided by us in good faith and without charge, relating to Kingfisher products only. As such, whilst every endeavor is made for accuracy from information provided by yourselves, the final responsibility for the suitability of the design lies with the client. The company cannot, therefore, accept any liability or consequential loss incurred.