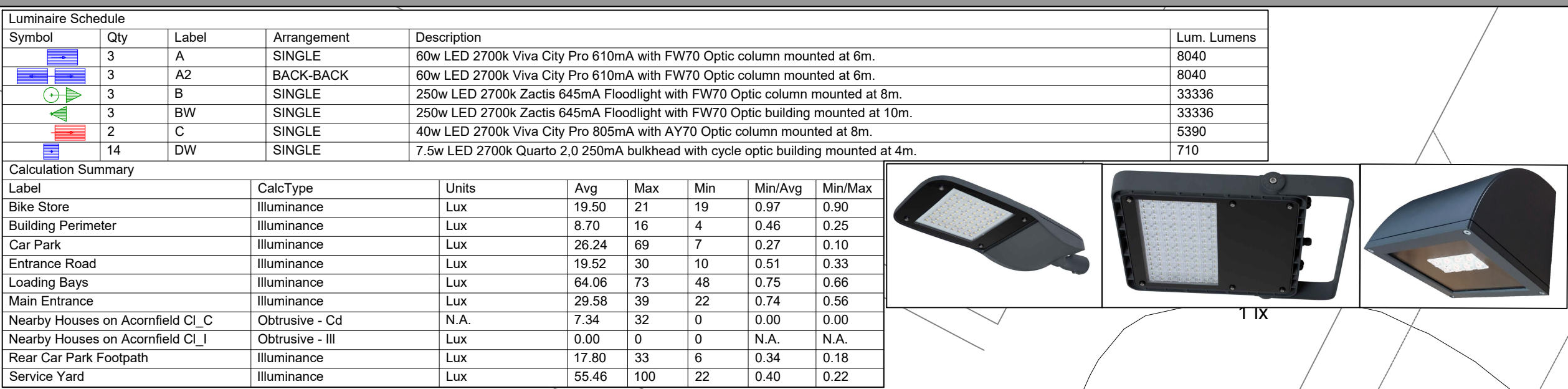
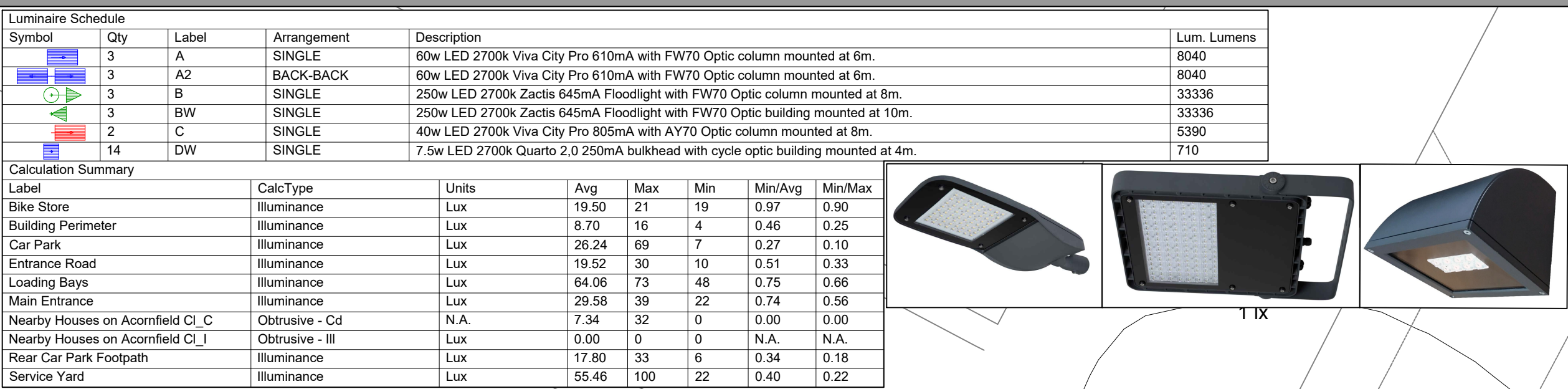


Dimensions are not to be scaled from this drawing

Luminaire Schedule					
Symbol	Qty	Label	Arrangement	Description	Lum. Lumens
	3	A	SINGLE	60w LED 2700k Viva City Pro 610mA with FW70 Optic column mounted at 6m.	8040
	3	A2	BACK-2-BACK	60w LED 2700k Viva City Pro 610mA with FW70 Optic column mounted at 6m.	8040
	3	B	SINGLE	250w LED 2700k Zactis 645mA Floodlight with FW70 Optic column mounted at 8m.	33336
	3	B2	BACK-2-BACK	250w LED 2700k Zactis 645mA Floodlight with FW70 Optic column mounted at 8m.	33336
	2	C	SINGLE	40w LED 2700k Viva City Pro 855mA with AY70 Optic column mounted at 6m.	5390
	2	C2	BACK-2-BACK	40w LED 2700k Viva City Pro 855mA with AY70 Optic column mounted at 6m.	5390
	1	D	SINGLE	7.5w LED 2700k Quarto 2.0 250mA bulkhead with cyclor optic building mounted at 4m.	710
	1	D2	BACK-2-BACK	7.5w LED 2700k Quarto 2.0 250mA bulkhead with cyclor optic building mounted at 4m.	710
Calculation Summary					
Label	CalcType	Units	Avg	Max	Min
Area Store	Illuminance	Lux	18.50	21	18
Building Perimeter	Illuminance	Lux	8.70	16	4
Car Park	Illuminance	Lux	26.24	69	7
Entrance Road	Illuminance	Lux	19.52	30	10
Loading Bays	Illuminance	Lux	64.06	73	48
Main Entrance	Illuminance	Lux	29.58	39	22
Nearby Houses on Acomfield Cl. C	Obstructive - Cd	N/A	7.34	32	0
Nearby Houses on Acomfield Cl. C	Obstructive - II	Lux	0.00	0	0
Near Car Park Footpath	Illuminance	Lux	17.80	33	6
Service Yard	Illuminance	Lux	55.46	100	22



Kingfisher Lighting

Part of the Luceco PLC group of companies



BREEAM New Construction 2018 (UK)



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46169 Knowsley East Hub, South Boundary Road, Knowsley

Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumens (lm)	Watts (W)	lm/W	LOF	Total Lumens	UGR	Upward Lumens	CR	** AAT Hour Per Day	c07 (lumens)	Km/Year
2700	9	Viva City PRO	60w LED FW70	8040	60	134.00	100%	72360	0.0%	0	>70	12	0.50	2385.20
2700	6	Zactis	250w LED FW70	33336	250	133.34	100%	200016	0.0%	0	>70	12	1.38	6370.00
2700	2	Viva City PRO	40w LED AY70	5390	40	134.75	100%	10780	0.0%	0	>70	12	0.67	350.40
2700	14	Quarto 2.0	7.5w LED OC	710	8	94.67	100%	9940	0.0%	0	>70	12	0.50	456.90

Table 1 Compliance			
Environmental Zone	Target	Actual	Status
Key Glow	0.00%	0.00%	Pass
Source Intensity (Candela)			
Pre Curve	10,000	85	Pass
Post Curve	5,000	85	Pass
Light Trespass into Windows (lm)			
Pre Curve	2	0	Pass
Post Curve	2	0	Pass
Building Luminance (cd/m²)			
Pre Curve	10	0	Pass

Total Installation Lumens	Total Upward Light
20994.00	0.00%
Total CO2 Per Year (Tonnes)	
2.85	
Total Electric Consumption (kWh)	
2.23	
Total Electric Consumption Per Year (kWh)	
9345.50	
Average Luminaire Lumens Per Clean Wall	
137.52	
Compliance Status	
Part 04	Reduction Of Night Time Light Pollution
Part 05	Energy Efficient External Lighting
Part 06	Internal And External Lighting Levels
Part 07	Light Trespass
Part 08	Light Pollution
Part 09	Light Pollution
Part 10	Light Pollution
Part 11	Light Pollution
Part 12	Light Pollution
Part 13	Light Pollution
Part 14	Light Pollution
Part 15	Light Pollution
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Part 91	Light Pollution
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Part 93	Light Pollution
Part 94	Light Pollution
Part 95	Light Pollution
Part 96	Light Pollution
Part 97	Light Pollution
Part 98	Light Pollution
Part 99	Light Pollution
Part 100	Light Pollution

Unit 1
Ground Floor min. GIA = 46,100sqft (4,283sqm)
First Floor min. GIA (hatched) = 3,900sqft (362sqm)
Total min. GIA = 50,000sqft (4,645sqm)

Building clear height to be 12.5m above
FFL measured to underside of haunch

A0

Knowsley East Hub, South Boundary Road, Knowsley		Scale 1:200 at A0	Project Number D46169H
 For our LED lighting designs a 0.9mf has been used. If this differs from the maintenance advice for this project then you must advise us accordingly.		Date 24 May 2023	Drawing No. D46169/RD/H
		Lighting Designer : Robert Dagley	



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

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