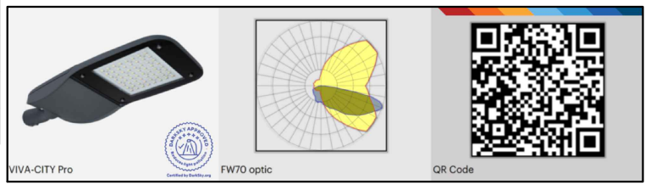
Dimensions are not to be scaled from this drawing

Luminaire Schedule

Symbol	Qty	Label	Arrangement	LLF	Description	Luminaire L/W	Lum. Lumens	UWLR	TM65 & TM66 Information
🟩	1	EX1	SINGLE	0.900	80W LED 4000K VIVA-CITY Pro 805mA with FW70 forward throw optic column mounted at 8m.	138	11016	0.00	
🟩 🟩	8	EX1-2	BACK-BACK	0.900	2 x 80W LED 4000K VIVA-CITY Pro 805mA with FW70 forward throw optic column mounted at 8m.	138	11016	0.00	
🟥	14	EX2	SINGLE	0.900	120W LED 4000K VIVA-CITY Pro 620mA with FW70 forward throw optic column mounted at 8m.	148	17722	0.00	
🟥 🟥	5	EX2-2	Back-Back	0.900	120W LED 4000K VIVA-CITY Pro 620mA with FW70 forward throw optic column mounted at 8m.	148	17722	0.00	

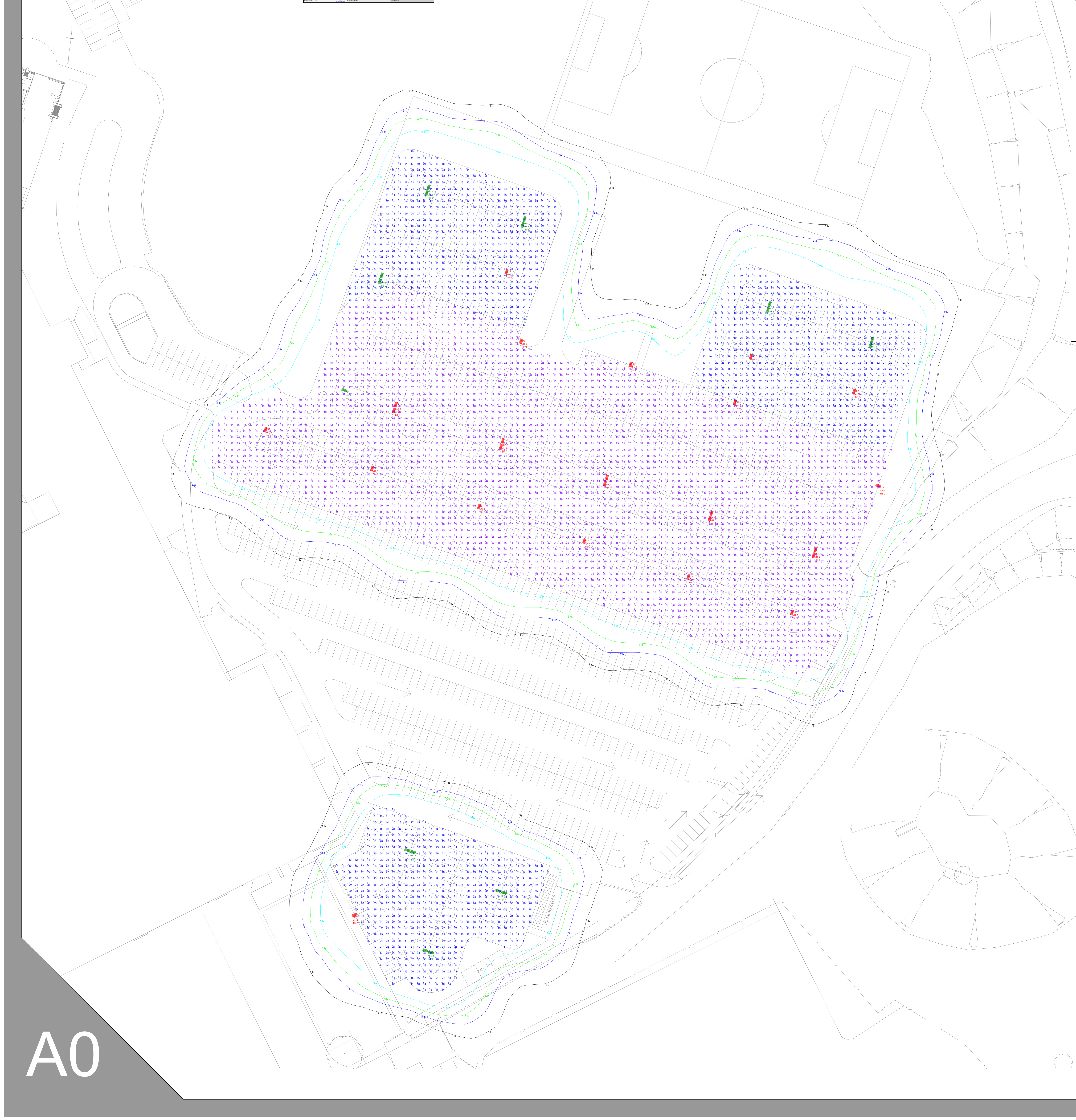
Calculation Summary

Label	CalcType	Units	Avg	Max	Min	Uniformity (Min/Avg)	Diversity (Min/Max)
Car Parks	Illuminance	Lux	21.41	49	6	0.28	0.12
Existing Car Park	Illuminance	Lux	20.93	71	6	0.29	0.08



Kingfisher Lighting

Part of the Luceco PLC group of companies LUCECO



BREEAM New Construction 2018 (UK)

Kingfisher Lighting

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51811	Caterpillar Car Park Extension

CO2 Calculation For A Year

	Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumens (lm)	Watts (W)	Lm/W	LOR	Total Lumens	ULOR	Upward Lumens	CRI	** ART Hour Per Day	CO^2 (Tonnes)	Kw/Hour
	4000	17	Viva City PRO	80w LED FW70	11040	80	138.00	100%	187680	0.0%	0	>70	12	1.25	5956.80
	4000	24	Viva City PRO	120w LED FW70	17760	120	148.00	100%	426240	0.0%	0	>70	12	2.65	12614.40

GN01 - 2011

Table 1 Complance	
Environmental Zone	E3

Sky Glow	Target	Achieved	Status
	5.00%	0.00%	Pass

Source Intensity (Candelas)				
Pre Curfew	10,000		Pass	Note - we have not been able to calculate this as no housing is shown on the drawing
Post Curfew	1,000		Pass	Note - we have not been able to calculate this as no housing is shown on the drawing

Light Tresspass Into Windows (Lux)				
Pre Curfew	10		Pass	Note - we have not been able to calculate this as no housing is shown on the drawing
Post Curfew	2		Pass	Note - we have not been able to calculate this as no housing is shown on the drawing

Building Luminance (cd/m^2)	10		Pass

Total Installation Lumens	613920.00	**Total Upward Light**	0.00%

Total CO2 Per Year (Tonnes)	**3.90**
Total Electric Consumption (Kw)	**4.24**
Total Electric Consumption Per Year (Kwh)	**18571.20**
Average Luminaire Lumens Per Circuit Watt	**144.79**

Compliance Status		
Pol 04	Reduction Of Night Time Light Pollution	Pass
Ene 03	Energy Efficent External Lighting	Pass
Hea 01	Internal And External Lighting Levels	Pass

Note - HEA01 in this report only applies to exterior lighting
**** ART = (Average Run Time)**

Date 08/04/2024

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Caterpillar Car Park Extension

Scale	Project Number
1:500 at A0	D51811B
Date	Drawing No.
8 April 2024	D51811/RD/B

Lighting Designer : Robert Dagley MSLL

HEA Highway Electrical Association · Membership No. H047 HEMSA · Lighting Industry Association · ILP Institution of Lighting Professionals · SAFCA Ancillary Contractor

For our LED lighting designs a 0.9mf 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.

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