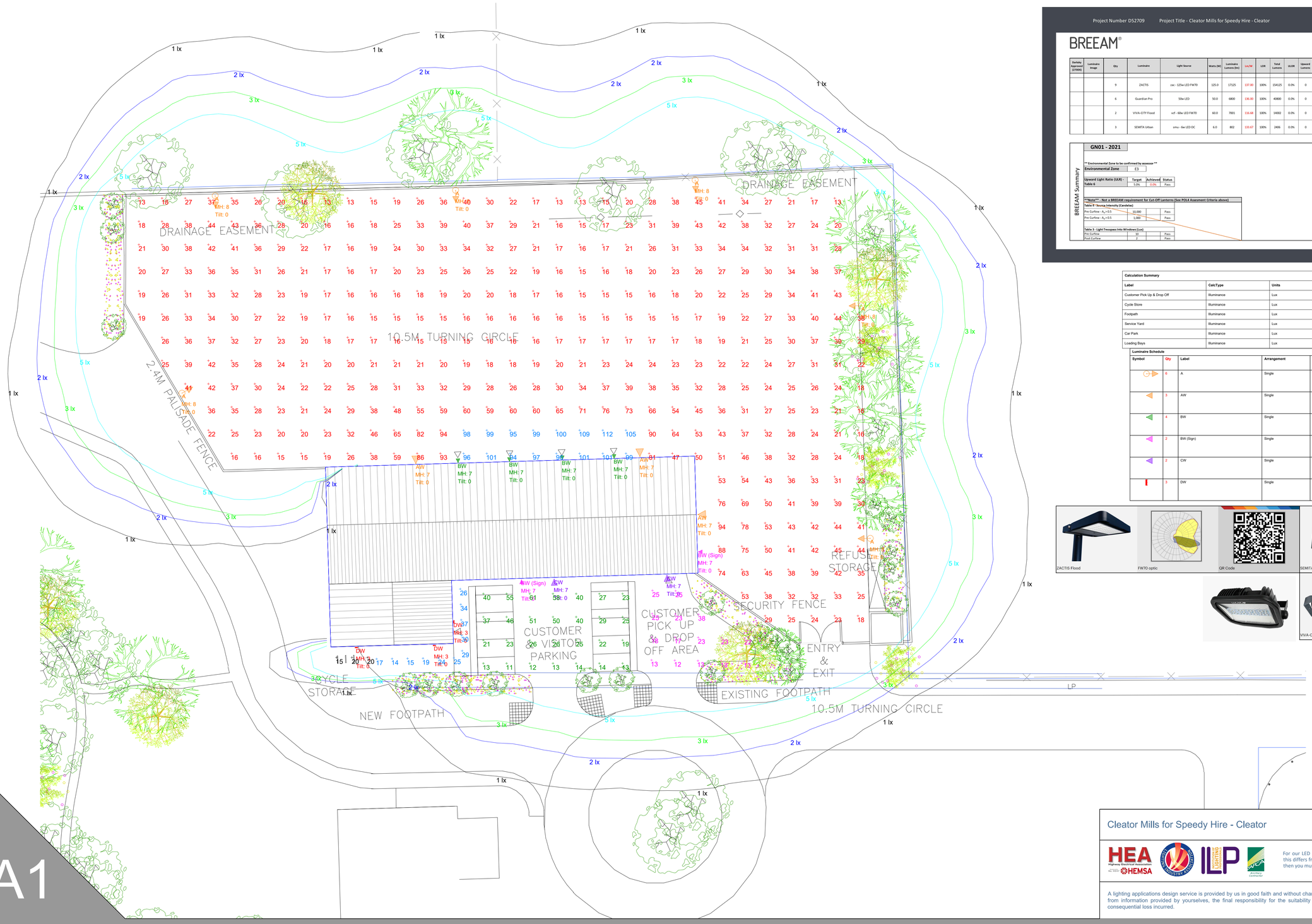
Dimensions are not to be scaled from this drawing

Kingfisher Lighting

Part of the Luceco PLC group of companies LUCECO



Project Number DS2709 Project Title - Cleator Mills for Speedy Hire - Cleator Date 14/05/2024

Kingfisher Lighting

BREEAM®

Darksky Approved (27700K)	Luminaire Image	Qty	Luminaire	Light Source	Watts (W)	Luminaire Lumens (lm)	Lm/W	LOR	Total Lumens	ULOR	Upward Lumens	Light Engine: Colour Temperature (K)	Light Engine: L Value	Light Engine: B Value	Light Engine: Rated Life (Hrs)	Light Engine: CRI	ILP GN01 - Table 1 & Table 7: Beam Angle	ILP GN01 - Table 1 & Table 7: Sky Glow Effect	ILP GN01 - Table 1 & Table 7: Glare Effect	ILP GN01 - Table 1 & Table 7 - Referdis Only 4: Source Intensity cd/1000 lm (80° C, 0°C)	ILP GN01 - Table 1 & Table 7 - Referdis Only 4: % of luminaire lumens (100° C,0°)	CO² Calculation For A Year: ** ART Hour Per Day	CO² (Tonnes)	Kw/Hour
		9	ZACTIS	zac - 125w LED FW70	125.0	17125	137.00	100%	154125	0.0%	0	4000	L80	B20	100,000	>70	67°	Minimum	Some	2110	n/a	12	1.01	4927.50
		6	Guardian Pro	50w LED	50.0	6800	136.00	100%	40800	0.0%	0	4000	0	0	100,000	>70	0.00	0.00	0.00	0	0.0%	12	0.27	1314.00
		2	VIVA-CITY Flood	vcf - 60w LED FW70	60.0	7001	116.68	100%	14002	0.0%	0	4000	L80	B10	100,000	>70	70°	Minimum	Some	1920	n/a	12	0.11	525.60
		3	SEMITA Urban	smu - 6w LED-OC	6.0	802	133.67	100%	2406	0.0%	0	4000	L80	B10	100,000	>70	70°	Minimum	Some	307	n/a	12	0.02	78.84

BREEAM Summary

GN01 - 2021

** Environmental Zone to be confirmed by assessor **

Environmental Zone	E3

Upward Light Ratio (ULR) - Table 6	Target	Achieved	Status
	5.0%	0.0%	Pass

Note - Not a BREEAM requirement for Cut-Off Lanterns (See POL4 Assessment Criteria above)

Table 2 - Source Intensity (Candela)			
Pre Curfew - A_{γ} = 0.5	10,000		Pass
Pre Curfew - A_{γ} = 0.5	1,000		Pass

Table 3 - Light Trespass Into Windows (Lux)			
Pre Curfew	10		Pass
Post Curfew	2		Pass

Total Installation Lumens	211333	Total Upward Light	0.0%
Total CO2 Per Year (Tonnes)			1
Total Electric Consumption (Kw)			2
Total Electric Consumption Per Year (Kwh)			6846
Average Luminaire Lumens Per Circuit Watt			135

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

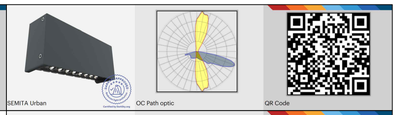
Note - HEA01 in this report only applies to exterior lighting
** ART = (Average Run Time)

Date 14/05/2024

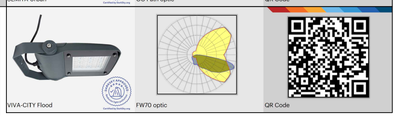
Calculation Summary									
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max	Meter Type	Description
Customer Pick Up & Drop Off	Illuminance	Lux	20.20	38	12	0.59	0.32	Horizontal	
Cycle Store	Illuminance	Lux	18.33	20	15	0.82	0.75	Horizontal	
Footpath	Illuminance	Lux	24.55	37	14	0.57	0.38	Horizontal	
Service Yard	Illuminance	Lux	30.33	94	13	0.43	0.14	Horizontal	
Car Park	Illuminance	Lux	29.79	61	11	0.37	0.18	Horizontal	
Loading Bays	Illuminance	Lux	100.13	112	94	0.94	0.84	Horizontal	

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	LLF	Description	Luminaire L/W	UWLR	Light Engine	Total Watts
	6	A	Single	0.900	125W LED 4000K ZACTIS Flood 640mA with FW70 forward throw optic column mounted at 8m	142	0.00		750
	3	AW	Single	0.900	125W LED 4000K ZACTIS Flood 640mA with FW70 forward throw optic building mounted at 7m	142	0.00		375
	4	BW	Single	0.900	50w LED 4000k Guardian Pro Asymmetrical floodlight building mounted at 7m	136	0.01		200
	2	BW (Sign)	Single	0.900	50w LED 4000k Guardian Pro Asymmetrical floodlight building mounted at 7m	136	0.01		100
	2	CW	Single	0.900	60W LED 4000K VIVA-CITY Flood 610mA with FW70 forward throw optic wall mounted at 7m	116	0.00		120
	3	DW	Single	0.900	6W LED 4000K 205mA SEMITA Urban with OC path optic wall mounted at 3m	136	0.00		18

ZACTIS Flood | FW70 optic | QR Code



SEMITA Urban | OC Path optic | QR Code



VIVA-CITY Flood | FW70 optic | QR Code

N

A1

Cleator Mills for Speedy Hire - Cleator

Scale	Project Number
1: 250 at A1	D52709
Date	Drawing No.
14 May 2024	D52709/JB/A

Lighting Designer : J Buck MSLL

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

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