

Dimensions are not to be scaled from this drawing

BREEAM New Construction 2018 (UK)

D49437/C Cleator Moor Activity Centre



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Kingfisher Lighting

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Colour Temperature (°K)	Qty	Range	Light Source	Luminaire Lumens (lm)	Watts (W)	lm/W	LOR	Total Lumens	ULOR	Upward Lumens	CR	** AET Hour Per Day	CO ₂ (Tonnes)	kWh/Year
4000	2	Viva City PRO	60w LED FW70	5880	40	147.00	100%	11760	0.0%	0	>70	12	0.07	350.40
4000	5	Viva City PRO	60w LED FW70	8760	60	146.00	100%	43800	0.0%	0	>70	12	0.28	1334.00
4000	1	Viva City PRO Flood	60w LED FW70	8760	60	146.00	100%	8760	0.0%	0	>70	12	0.06	263.80
4000	11	Semita Urban	6w LED OC	802	6	133.67	100%	8822	0.0%	0	>70	12	0.06	289.08
4000	1	Viva City PRO	60w LED A1870	5246	60	87.43	100%	5246	0.0%	0	>70	12	0.06	263.80

Total Installation Lumens	79888.00	Total Upward Light	0.00%
Total CO ₂ Per Year (Tonnes)	6.52		
Total Electric Consumption (Kwh)	6.57		
Total Electric Consumption Per Year (kWh)	2403.08		
Average Luminaire Lumens Per Circuit Watt	136.89		

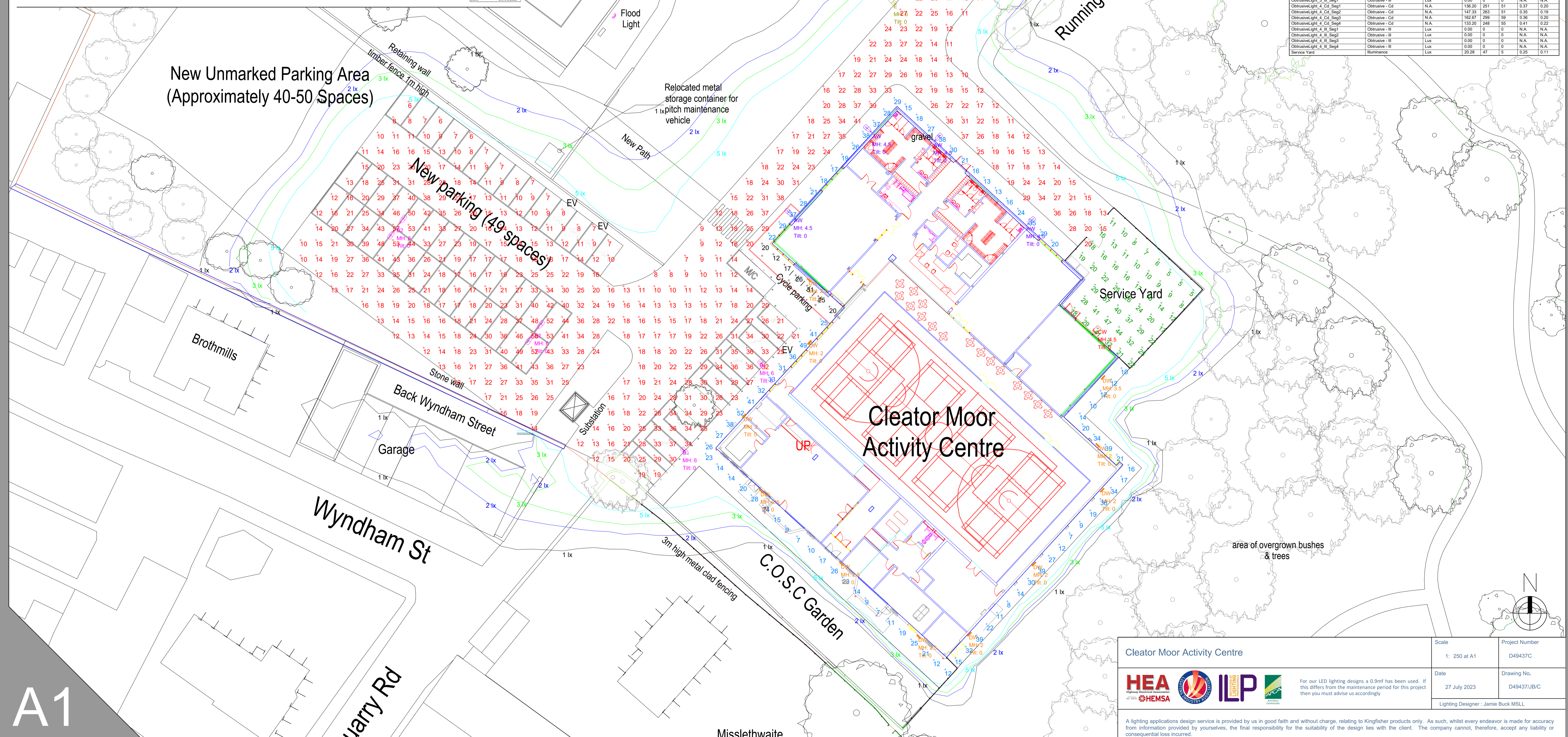
Compliance Status	
Doc 04 Reduction of Night Time Light Pollution	Pass
Doc 03 Energy Efficient External Lighting	Pass
Doc 05 Internal and External Lighting Levels	Pass

Note: HEAT in this report only applies to exterior lighting
* AET = Average Run Time

Table 1 Compliance			
Environmental Zone	E3		
Sky Glow	Target: 5.00%	Achieved: 0.00%	Status: Pass
Source Intensity (Candelas)			
Pre-Curfew	10,000	1,637	Pass
Post-Curfew	1,000	0	Pass
Light Trespass into Windows (Lux)			
Pre-Curfew	10	3	Pass
Post-Curfew	2	0	Pass
Building Luminance (cd/m ²)	10		Pass

Symbol	Qty	Label	Arrangement	LLF	Description
AW	4		SINGLE	0.900	60W LED 4000K VIVA-CITY Pro 1050mA with FW70 forward throw optic wall mounted at 4.5m
B	2		SINGLE	0.900	60W LED 4000K VIVA-CITY Pro 610mA with FW70 forward throw optic column mounted at 6m
BZ	2		BACK-BACK	0.900	2 x 60W LED 4000K VIVA-CITY Pro 610mA with FW70 forward throw optic column mounted at 6m
OW	1		SINGLE	0.900	60W LED 4000K VIVA-CITY Floor 610mA with FW70 forward throw optic wall mounted at 4.5m
OW	11		SINGLE	0.900	6W LED 4000K SEMITA Urban 205mA with OC path optic wall mounted at various heights
E	1		SINGLE	0.900	60W LED 4000K VIVA-CITY Pro 610mA with A1870 street optic column mounted at 6m

Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
Building Perimeter	Illuminance	Lux	22.89	52	7	0.31	0.13
Car Park	Illuminance	Lux	21.64	58	6	0.38	0.15
Cycle Parking	Illuminance	Lux	21.57	31	12	0.58	0.39
ObsvLight_1_Cd_Seg1	ObsvLight - Cd	N/A	419.11	1837	66	0.16	0.04
ObsvLight_1_Cd_Seg2	ObsvLight - Cd	N/A	462.60	1328	78	0.17	0.06
ObsvLight_1_II_Seg1	ObsvLight - II	Lux	0.61	3	0	0.00	0.00
ObsvLight_1_II_Seg2	ObsvLight - II	Lux	0.33	1	0	0.00	0.00
ObsvLight_2_Cd_Seg1	ObsvLight - Cd	N/A	116.17	235	28	0.24	0.12
ObsvLight_2_Cd_Seg2	ObsvLight - Cd	N/A	0.00	0	0	N/A	N/A
ObsvLight_2_Cd_Seg3	ObsvLight - Cd	N/A	93.83	218	18	0.19	0.08
ObsvLight_2_II_Seg1	ObsvLight - II	Lux	0.00	0	0	N/A	N/A
ObsvLight_2_II_Seg2	ObsvLight - II	Lux	0.00	0	0	N/A	N/A
ObsvLight_2_II_Seg3	ObsvLight - II	Lux	0.00	0	0	N/A	N/A
ObsvLight_3_Cd_Seg1	ObsvLight - Cd	N/A	18.22	50	7	0.38	0.14
ObsvLight_3_II_Seg1	ObsvLight - II	Lux	0.00	0	0	N/A	N/A
ObsvLight_4_Cd_Seg1	ObsvLight - Cd	N/A	136.20	251	15	0.37	0.20
ObsvLight_4_Cd_Seg2	ObsvLight - Cd	N/A	147.33	283	51	0.35	0.19
ObsvLight_4_Cd_Seg3	ObsvLight - Cd	N/A	162.67	299	59	0.36	0.20
ObsvLight_4_II_Seg1	ObsvLight - II	Lux	0.00	0	0	N/A	N/A
ObsvLight_4_II_Seg2	ObsvLight - II	Lux	0.00	0	0	N/A	N/A
ObsvLight_4_II_Seg3	ObsvLight - II	Lux	0.00	0	0	N/A	N/A
Service Yard	Illuminance	Lux	20.28	47	5	0.25	0.11



A1

Cleator Moor Activity Centre		Scale	Project Number
		1: 250 at A1	D49437C
		Date	Drawing No.
		27 July 2023	D49437/UB/C
		Lighting Designer: Jamie Buck MSL	



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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