



Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Min/Avg
Access Road & Car Parking	Illuminance	Lux	14.37	54	4	0.28
Pedestrian Pathway	Illuminance	Lux	19.47	70	5	0.26

Luminaire Schedule						
Symbol	Qty	Label	Arrangement	LLF	Description	
➔	2	A	SINGLE	0.900	40w LED 4000K Viva City Pro 804mA with AY70 Optic column mounted at 5m	
➔	2	B	SINGLE	0.900	40w LED 4000K Viva City Pro 804mA with FW70 Optic column mounted at 5m	
➔	3	C	SINGLE	0.900	16w 4000k 1240mm (4ft) Climate Extra Single LED Array (Standard) ceiling mounted	
⦿	2	D	SINGLE	0.900	7.5w LED 4000K Deco 2.0 1m high bollard	
⦿	2	E	SINGLE	0.900	21w LED 4000K Alfresco 2.0 plane face bulkhead ceiling mounted	

BREEAM New Construction 2018 (UK)



D43006 - The Cavendish Centre, Winnall Close, Winchester

Qty	Range	Light Source	Lamp Lumens	Circuit Watts	Lm/W	LOR	Luminaire Lumens	ULOR	Upward Lum.	RA	ART Hour Per Day	CO2 (Tonnes) per year	Kwh/year
2	Viva City PRO	40w LED AY70	9527	40	188.18	300.0%	11984	0.0%	0	70	12	0.08	350.40
2	Viva City PRO	40w LED FW70	9580	40	189.50	300.0%	11790	0.0%	0	70	12	0.08	350.40
3	Climate Extra	16w LED	2200	16	137.50	300.0%	6600	0.0%	0	60	12	0.05	193.24
2	Deco 2.0 LED	7.5w LED	447	8	112.00	300.0%	594	13.0%	234	60	12	0.02	65.76
2	Alfresco 2.0 (Clear Ceiling mount) LED	21w LED (CWH)	2143	21	102.00	300.0%	4286	1.5%	64	60	12	0.04	153.96

Total Installation Lumens: 36194.00 Total ULR: 5.82%

Table 1 compliance

Environmental zone: E3

Sky Glow: Target 5.00%, Achieved 0.82%, Status Pass

Source Intensity (candelas): Pre-curtain 30,000 Pass; Post-curtain 1,000 Pass

Light Trespass into windows (Lux): Pre-curtain 30 Pass; Post-curtain 2 Pass

Building Luminescence (cd/m²): 30

Compliance Status: P1a 01 Reduction of night time light pollution Pass; E1a 03 Energy efficient external lighting Pass; E1a 01 Internal and external lighting levels Pass

Note: HEA1 in this report only applies to exterior lighting

Total COP per year (Tonnes): 0.27

Total Electrical consumption (kWh): 0.27

Total Electrical consumption per year (kWh): 1,180.70

Average luminaire lumens per circuit Watt: 136.50

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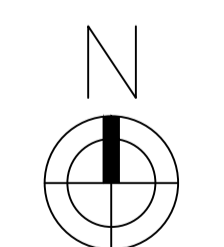
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A1



The Cavendish Centre, Winnall Close, Winchester		Scale: 1:200 at A1	Project Number: D43006
		Date: 5 May 2021	Drawing No.: D43006/LC/A
		Lighting Designer: L. Clarke	

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