



Luminaire Schedule					
Symbol	Qty	Label	Arrangement	Description	Lum. Lumens
	4	A	SINGLE	20.5w LED 2700K (1 module) 525mA t80 1 with STE-M Optic column mounted at 6m.	2218
	17	BE	SINGLE	6w LED 2700K Sema Urban bulkhead with cycle optic + Comfort Glass building mounted at 4m.	689
	16	C	SINGLE	7.5w LED 2700K Deco 2.0 1m high island	730
	7	Existing	SINGLE	20.5w LED 4000K (1 module) 525mA t80 1 with STE-M Optic column mounted at 6m.	2610
Calculation Summary					
Label	CalcType	Units	Avg	Max	Min
Building Walkway	Illuminance	Lux	10.40	13	6
Pathway	Illuminance	Lux	18.85	34	5
Roadway Walkway	Illuminance	Lux	17.84	34	5
Top Building Perimeter	Illuminance	Lux	11.80	28	3



BREEAM New Construction 2018 (UK)

Qty	Range	Light Source	Lamp Lumens	Circuit Watts	Lm/W	LOR	Luminaire Lumens	ULOR	Upward Lm	RA	ART Hour Per Day	CO2 Calculation for year
12	Ratio 2	2700K - 525mA 1 Module	2218	21	105.30	100.0%	2218	0.0%	0	20	12	0.23
17	Sema Urban	6w LED Comfort OC Optic	689	6	114.83	100.0%	11713	0.0%	0	70	12	0.10
16	Deco 2.0 LED	7.5w LED	730	8	91.25	100.0%	11450	13.8%	1513	60	12	0.14

Total Installation Lumens 49251.00 Total ULR 1.85%

Table 1 compliance			
Environmental zone			
E3			
Sky Glow			
Target	3.00%	3.00%	Pass
Source intensity (candelas)	10,000	1,000	Pass
Post cut-off	1,000	1,000	Pass
Light trespass into windows (Lux)	10	10	Pass
Post cut-off	2	2	Pass
Building Luminance (cd/m²)	10	10	Pass

Compliance Status:	
Part 1a	Reduction of night time light pollution
Part 1b	Energy efficient external lighting
Part 1c	Internal and external lighting levels

Note: *BREEAM in this report only applies to exterior lighting

Total CO2 per year (Tonnes)	0.47
Total Electrical consumption (kWh)	0.48
Total Electrical consumption per year (kWh)	2,025.75
Average luminaire lumens per circuit Watt	135.49

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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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