

Dimensions are not to be scaled from this drawing



Kingfisher Lighting

Part of the Luceco PLC group of companies **LUCECO**

**BREEAM New Construction 2018 (UK)**

Oxford Technology Park Unit 4

City	Range	Light source	Lamp Lumens	Overall Warts	Lu/W	LOE	LUMINANCE	UOR	Upward Lumens	RA	ART New Per Day	CO2 Calculation for year	CO2 (kWh/m2)	Weather
15	Table 1	S35 - 600mA 4 Module	10000	50	111.81	100.0%	10600	0.0%	0	70	12	1.53	6537.48	
25	Semita Arc	9w LED 4000K	783	5	156.60	100.0%	19075	0.0%	0	70	12	0.35	650.00	
1	Semita Arc	9w LED 4000K	802	4	133.87	100.0%	800	0.0%	0	70	12	0.05	36.38	
<b>Total Installation Lumens</b>											<b>10667.00</b>	<b>Total UOR</b>	<b>0.0%</b>	

Table 1 Compliance

Environmental zone	Target	Actual	Status	Total CO2 per year (kWh/m2)	1.88
City Sky	Target	Actual	Status	Total Electrical consumption (kWh)	1.84
Source Intensity (watts/m2)	10.00	Pass	Note: we have not been able to calculate this as no lighting is shown on the drawing	Total Electrical consumption per year (kWh)	7360.72
Footcandle	1.000	Pass	Note: we have assumed no fittings will be left on Post on curve	Average luminaire lumens per circuit (Watt)	111.42
Light Trespass into windows (Lux)	30	Pass	Note: we have not been able to calculate this as no lighting is shown on the drawing		
Footcandle	3	Pass	Note: we have assumed no fittings will be left on Post on curve		
Building Luminance (cd/m2)	50	Pass			

**Compliance Status:**  
 Footcandle: Reduction of night time light pollution: Pass  
 City Sky: Energy efficient external lighting: Pass  
 Footcandle: External and internal lighting levels: Pass

Note: N/A in this report only applies to external lighting

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Luminaire Schedule	City	Label	Arrangement	LLF	Description
1	25	E	SINGLE	0.900	7w LED 4000K Semita Arc bulkhead with street optic & Emergency Wall Mounted 2.4m x 4m
1	1	F	SINGLE	0.900	7w LED 4000K Semita Arc bulkhead with street optic & Emergency Wall mounted 2.4m
1	16	G	SINGLE	0.900	93w LED 4000K (4 module) 850mA 1x1 with 305 Optic Column Mounted 8m

Label	Calc Type	Units	Avg	Max	Min	Min/Avg	Min/Max
Unit 1 - 5 Perimeter	Luminaire	Lux	16.07	61	4	0.25	0.07
Unit 6 - 11 Perimeter	Luminaire	Lux	13.39	45	4	0.30	0.09
Car Park	Luminaire	Lux	14.86	37	5	0.34	0.14
Service Yard	Luminaire	Lux	17.96	44	9	0.30	0.30
Pathway 1	Luminaire	Lux	14.20	19	8	0.56	0.42
Pathway 2	Luminaire	Lux	14.00	17	10	0.71	0.59
Cycle Shelter	Luminaire	Lux	15.80	19	13	0.82	0.68
Recycle Bin 1	Luminaire	Lux	16.20	19	13	0.80	0.68
Recycle Bin 2	Luminaire	Lux	16.14	19	11	0.68	0.58
Recycle Bin 3	Luminaire	Lux	17.83	24	12	0.67	0.50



**SITE LAYOUT PLAN**



A0

Oxford Technology Park Unit 4

Scale: 1:250 at A0 | Project Number: D42985C

Date: 20 September 2022 | Drawing No.: D42985PMU/C

Lighting Designer: P.Murphy

**HEA** **HEMSA** **ILP**

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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