




Luminaire Schedule							Lum. Lumens	LLF
Symbol	Qty	Label	Arrangement	Description				
	2	EX1	SINGLE	6W LED 2700K 205mA SEMITA Urban with ST street optic building mounted at 2.5m			774	0.900
	17	EX3	SINGLE	19W LED 3000K Klou 180 with black optic radial			1900	0.900
	4	EX4	SINGLE	Quadrio 180 3000K 45W 3.5m			2450	0.900
Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max	
Podium	Luminance	Lux	73.40	165	19	0.26	0.12	



Kingfisher Lighting

Part of the Luceco PLC group of companies



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BREEAM New Construction 2018 (UK)

47186 Avondale Drive Hayes Town Centre

Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumens (lm)	Watts (W)	lm/W	LOR	Total Lumens	UOR	Upward Lumens	CRI	** ART Hour Per Day	CO ₂ (Tonnes)	Kw/Hour
2700	2	Semita Urban	6w LED ST	774	6	129.00	100%	1548	0.0%	0	>70	12	0.01	52.56
3000	17	Klou 180 LED	19w LED Radial	1900	19	100.00	100%	32300	1.2%	388	>70	12	0.30	1414.74
3000	4	Quadrio Comfort	45w LED Type VS	2450	45	54.44	100%	9800	36.2%	3548	>70	12	0.17	788.40

CEN1 - 2011

Table 1 Compliance

Environmental Zone E3

Sky Glow	Target	Achieved	Status
	3.00%	9.02%	Fail

Source Intensity (Candelas)	Pre Curfew	Post Curfew	Status
	10,000	1,000	Pass

Light Trespass Into Windows (Lux)	Pre Curfew	Post Curfew	Status
	10	2	Pass

Building Luminance (cd/m ²)	10		Pass
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Note - we have not been able to calculate this as no housing is shown on the drawing

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Total Installation Lumens 43648.00 Total Upward Light 0.02%

Total CO2 Per Year (Tonnes) 0.48

Total Electric Consumption (Kwh) 0.52

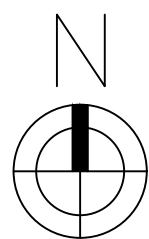
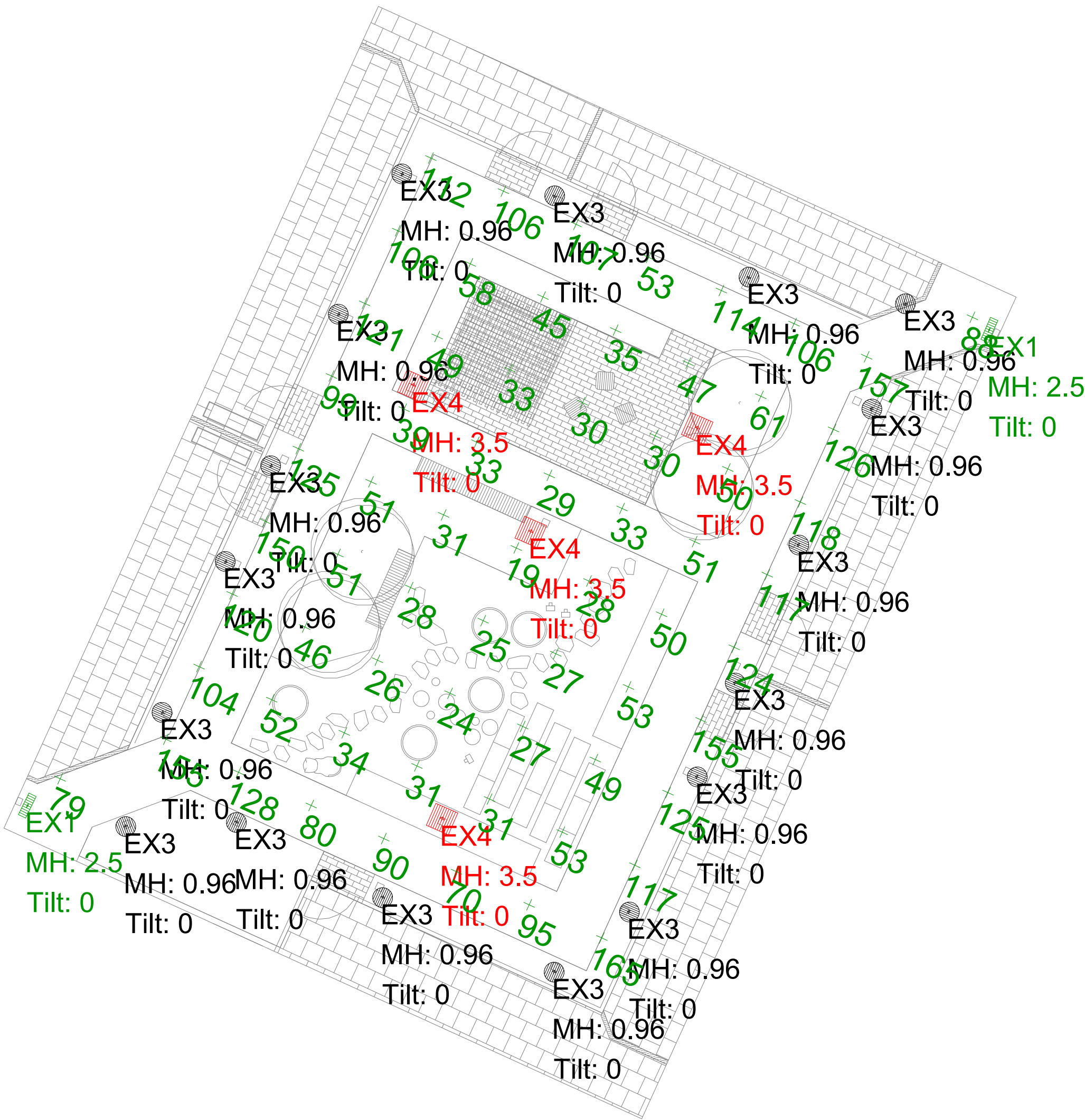
Total Electric Consumption Per Year (Kwh) 2265.17

Average Luminaire Lumens Per Circuit Watt 84.38

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

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

Date 22/11/2023



Avondale Drive Hayes Town Centre

Scale 1:200 at A1
Project Number D47186D - PODIUM



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

Date 22 November 2023
Drawing No. D47186/RD/D

Lighting Designer : Robert Dagley

A lighting applications design service is provided by us in good faith and without charge, relating to Kingfisher products only. As such, whilst every endeavor is made for accuracy from information provided by yourselves, the final responsibility for the suitability of the design lies with the client. The company cannot, therefore, accept any liability or consequential loss incurred.