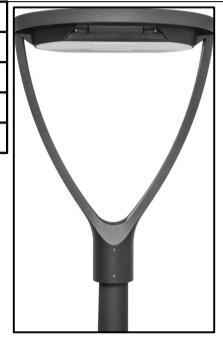


Dimensions are not to be scaled from this drawing

Luminaires Schedule					
Symbol	Qty	Label	Arrangement	LLP	Description
1	3	EX1	SINGLE	0.900	11.9W LED 4000K (1 Module) 60nva EcoRay TP with STULM Optic column mounted at 4m. 4.5m total height including luminaire.
2	2	EX2	SINGLE	0.900	11.9W LED 4000K (1 Module) 60nva EcoRay TP with STULM Optic column mounted at 4m. 4.5m total height including luminaire.
Calculation Summary					
Label	CalcType	Units	Avg	Max	Min
Amenity areas	Illuminance	Lux	12.98	29	9
Pathways on the right	Illuminance	Lux	12.44	25	9
Under Pergola	Illuminance	Lux	12.50	16	12



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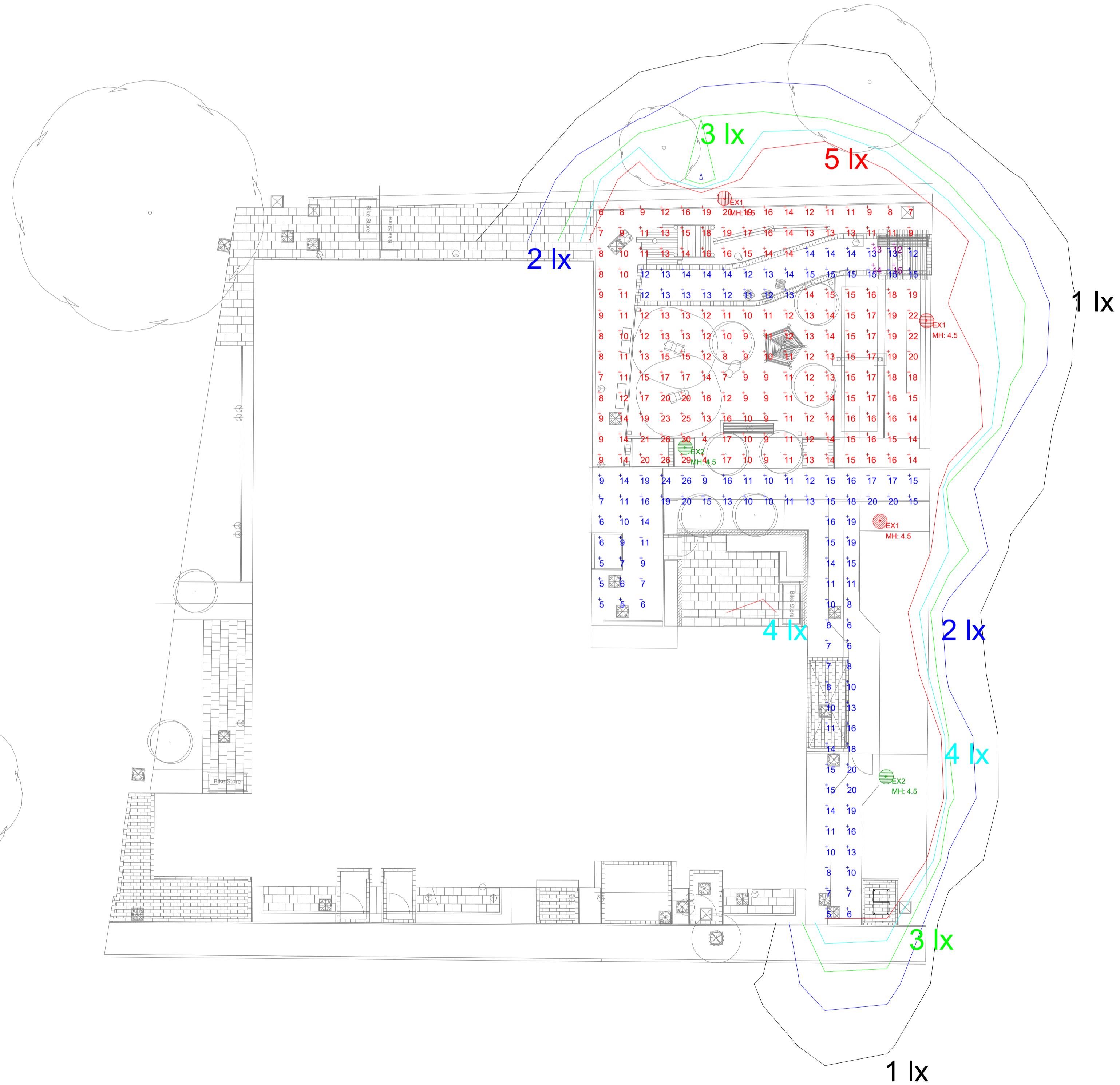
BREEAM New Construction 2018 (UK)

47329 Avondale Drive Hayes

Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumens (lm)	Watts(W)	lm/W	1OR	Total Lumens	ULOR	Upward Lumens	CB	** ART	Watt Per Day	CO ₂ (Tonnes)	Kw/Hour
4000	3	EcoRay TP	TP 505 - 1 Module 60mA	1590	12	133.61	100%	4770	0.0%	0	>70	12	0.03	156.37	
4000	2	EcoRay TP	STU-M - 1 Module 60mA	1030	12	135.29	100%	3220	0.0%	0	>70	12	0.02	104.28	

GAN01 - X011		
Table 1 Compliance		
Environmental Zone		
Target	Achieved	Status
5.00%	0.00%	Pass
Source Intensity (Candela)		
Pre CutOff	10,000	Pass
Post CutOff	1,000	Pass
Note - we have not been able to calculate this as no housing is shown on the drawing		
Note - we have not been able to calculate this as no housing is shown on the drawing		
Light Trespass into Windows (Lux)		
Pre CutOff	10	Pass
Post CutOff	2	Pass
Note - we have not been able to calculate this as no housing is shown on the drawing		
Note - we have not been able to calculate this as no housing is shown on the drawing		
Building Luminance (lx/m ²)		
10		Pass

CO ₂ Calculation For A Year	
Total Installation Lumens	2990.00
Total Upward Light	0.00%
Total CO ₂ Per Year (Tonnes)	0.05
Total Electric Consumption (Kwh)	0.06
Total Electric Consumption Per Year (Kwh)	260.61
Average Luminaire Lumens Per Circuit Wall	134.29
Compliance Status	
Post 04 Reduction Of Night Time Light Pollution	Pass
Ene 03 Energy Efficient External Lighting	Pass
Heav 01 Internal And External Lighting Levels	Pass
Note: IESNA in this report only applies to exterior lighting	
** ART = (Average Run Time)	
Date 23/11/2022	



Avondale Drive Hayes	Scale	Project Number
HEA	1:150 at A1	D47329C
ILP		
AFCA		

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 4 December 2023

Drawing No. D47329/RD/C

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.

A1