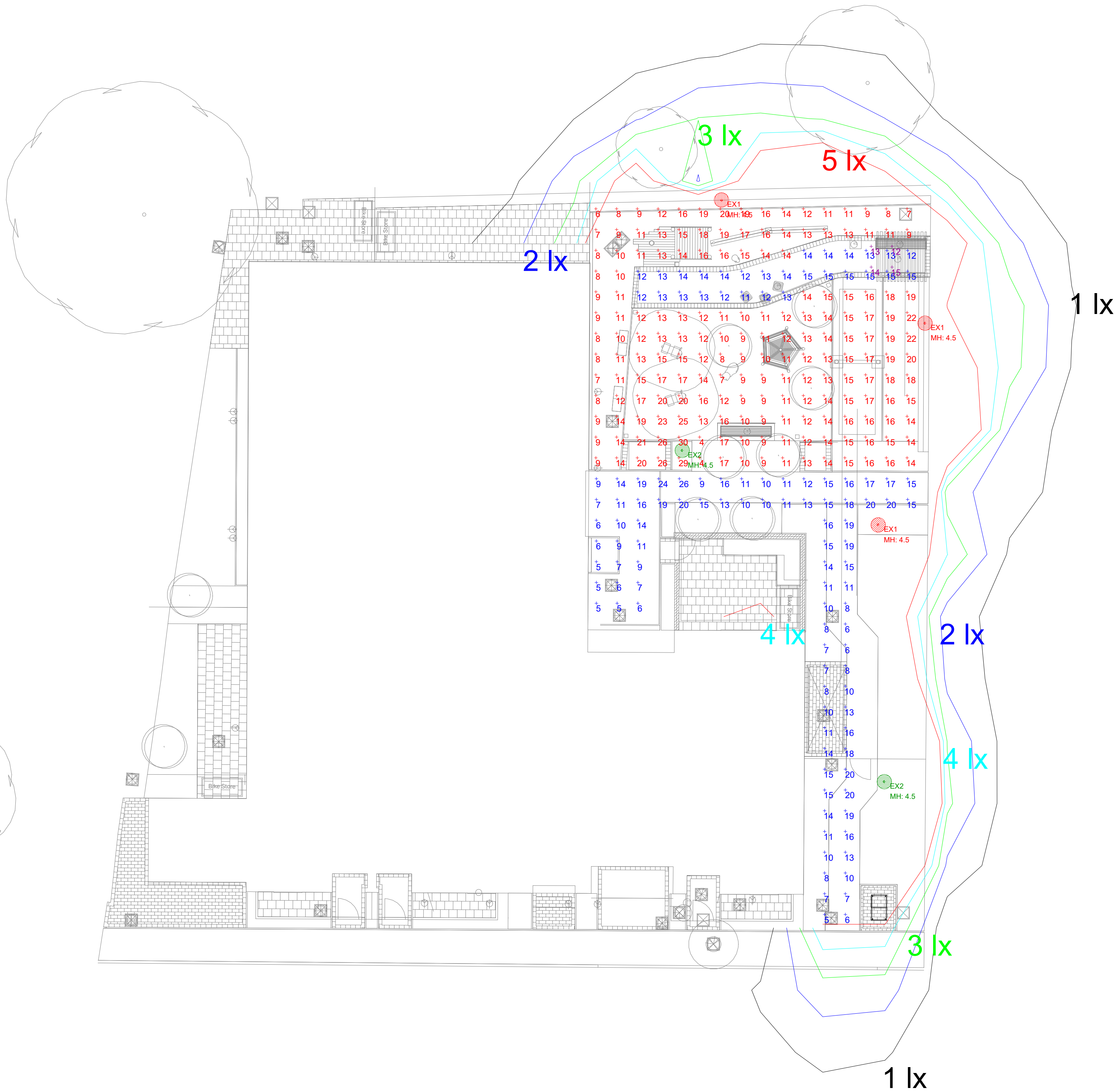


Dimensions are not to be scaled from this drawing

Luminaire Schedule									
Symbol	Qty	Label	Arrangement	Lx/F	Description	Luminaire LW	Lum. Lumens	UPLR	TM61 & TM08 Information
	3	EX1	SINGLE	0.900	11.8W LED 4000K (1 Module) 60mA EcoRay TP with S05 Optic column mounted at 4m. 4.5m total height including luminaire.	134	1990	0.00	LECKTP-SP5-4000-060-18-70-20
	2	EX2	SINGLE	0.900	11.8W LED 4000K (1 Module) 60mA EcoRay TP with STU-M Optic column mounted at 4m. 4.5m total height including luminaire.	185	1810	0.00	LECKTP-SP5-4000-060-18-70-20

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Uniformity (Min/Avg)
Average area	Brightness	Lux	12.58	29	6	0.46
Footways on the left	Brightness	Lux	12.41	25	5	0.40
Under People	Brightness	Lux	13.36	15	12	0.89



Kingfisher Lighting

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BREEAM New Construction 2018 (UK)

47329 Avondale Drive Hayes

CO ₂ Calculation For A Year												
Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumens (lm)	Watts (W)	lm/W	LOR	Total Lumens	ULOR	Upward Lumens	CRI	** ART Hour Per Day
4000	3	EcoRay TP	TP S05 - 1 Module 60mA	1990	12	133.61	100%	4770	0.0%	0	>70	12
4000	2	EcoRay TP	STU-M - 1 Module 60mA	1810	12	150.29	100%	3220	0.0%	0	>70	12

GNIS - 2021

Table 1 Compliance

Environmental Zone

Sky Glow	Target	Achieved	Status
	5.00%	0.00%	Pass

Source Intensity (Candelas)

Pre Curfew	Post Curfew	Status
10,000	1,000	Pass

Light Trespass into Windows (lux)

Pre Curfew	Post Curfew	Status
30	2	Pass

Building Luminance (cd/m²)

	10	Status
		Pass

Note - we have not been able to calculate this as no housing is shown on the drawing
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Total Installation Lumens

Total Upward Light

Total CO₂ Per Year (Tonnes)

Total Electric Consumption (kWh)

Total Electric Consumption Per Year (kWh)

Average Luminance Lumens Per Circuit Watt

Compliance Status

Pre 04 Reduction Of Night Time Light Pollution

Pre 04 Energy Efficient External Lighting

Pre 04 Internal And External Lighting Levels

Note - HEAD1 in this report only applies to exterior lighting
** ART - (Average Run Time)

Date

23/11/2023

A1

Avondale Drive Hayes

HEA
Highway Electrical Association
MEMBER

ILP
Infrastructure Lighting Professionals
MEMBER

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

Scale

1:150 at A1

Date

4 December 2023

Project Number

D47329C

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.