

Installation : Woodhead

Project number :

Customer : Challenger

Processed by : Dave Wood

Date : 21.05.2026

We have the pleasure in attaching our Lighting Design for the aforementioned project for your approval. Illuminance and uniformity levels are shown for your approval with calculations having been carried out as per the information, drawings and / or specifications details provided. Please check to confirm that all details are correct, especially dimensions of the room(s) and fitting specification to ensure these are as required. In the absence of a written specification areas will be illuminated to the recommended standards according to their primary function. Areas are generally to be open without any obstructions above the working plane unless otherwise advised.

Where applicable the design conforms to the latest recommendations and guidelines. If conformity to LG7 is to be proved with exact figure, we may need to add or change the luminaire types. We have used common design parameters for ceiling heights and reflectance's of room surfaces- (wall 50% ceiling 70% floor 20%) as well as maintenance factors (LED light source up to 0.9), in our calculations unless details were provided otherwise.

Please note that it is the installers responsibility to check and confirm TP(a) and TP(b) requirements as per Building Regulations Approved Document B Fire Safety 2006 with amendments 2010-2013. Compliant luminaires will generally be proposed dependant on the application and / or area type. Should the product specified by us be subsequently replaced with an inferior / non compliant product type - any liability and / or cost incurred for subsequent remedial work required would be the responsibility of the client.

Emergency lighting will be designed to the recommended guidelines set out in BS5266. Provision for High Risk areas will be made ONLY where obvious and / or those identified by the client. It is the responsibility of the Purchaser / Installer to ensure that the design complies with local fire and health and safety regulations. In the event that the design is not found to comply we will adjust the design in consultation with the customer to ensure that it does comply with such regulations. Please be aware of the Part L2 requirements and check that conformity has been met where required.

The following calculations are based on manufacturer lamp / luminaire data however, in practice gradual divergencies can occur. Specific site conditions (such as ambient temperature) can also effect the performance of luminaires and any such adverse conditions should be detailed prior to calculations being carried out to ensure adequate provision has been made for these.

Whilst every effort will be made to adhere to the written or product specification provided, it is always the responsibility of the customer to ensure that any design scheme, specification and / or product supplied satisfies fully and complies with the end users requirements and is suitable for the installation - If unsure of any suggested fittings it is advisable to order samples in advance following values are based on exact calculations on calibrated lamps, luminaires and their arrangement. In practice, gradual divergencies can occur.

The following values are based on precise calculations performed on calibrated lamp and luminaires, and their configurations, whereby gradual unavoidable deviations can occur in practise. All guarantee claims are excluded for the specified data.

This exclusion of liability applies irrespective of the legal grounds for both damages and consequential damages suffered by users and third parties.

The following values are based on precise calculations performed on calibrated lamps and luminaires, and their configurations, whereby gradual, unavoidable deviations can occur in practice. All guarantee claims are excluded for the specified data.

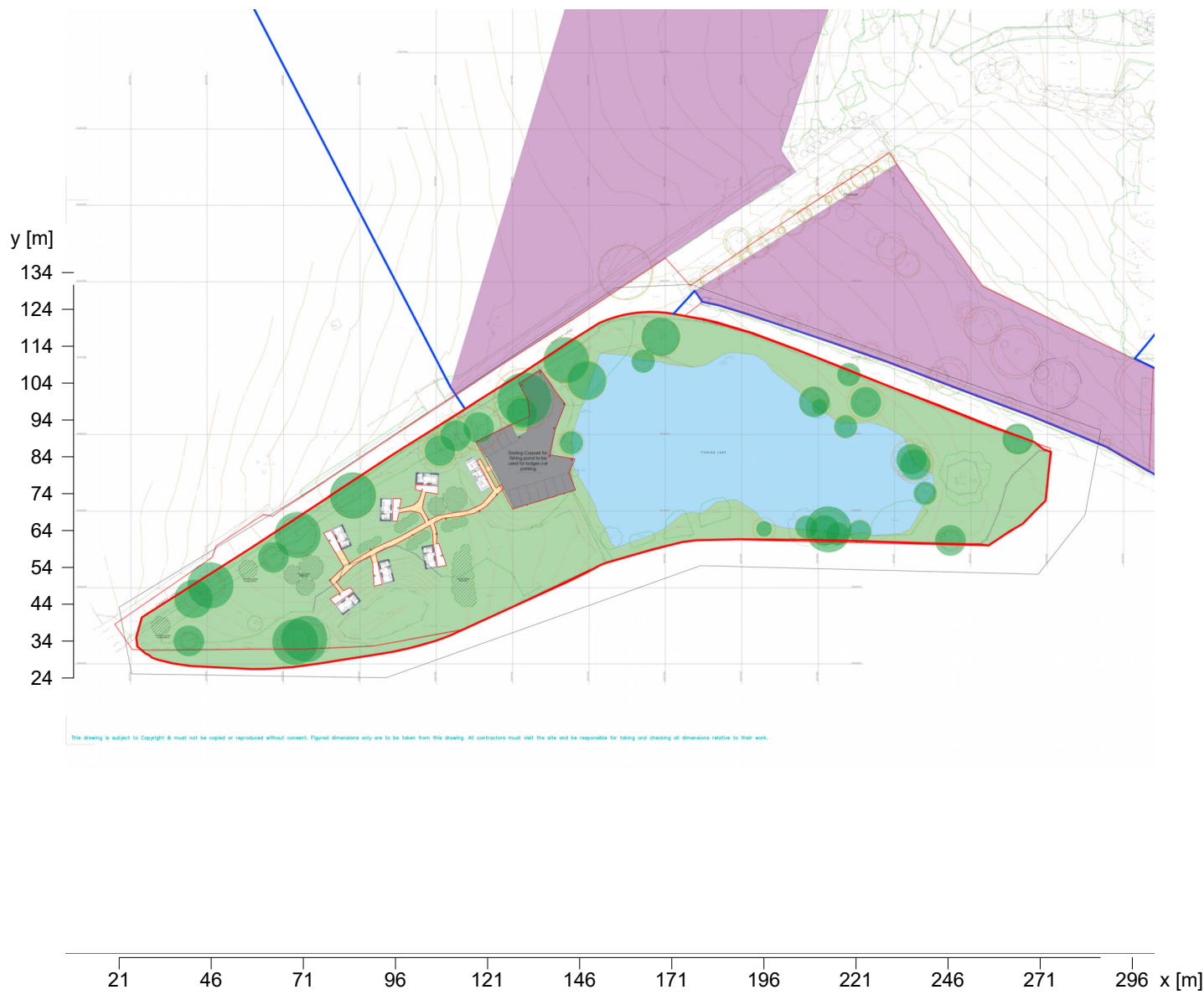
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Object :
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1 Exterior 1

1.1 Description, Exterior 1

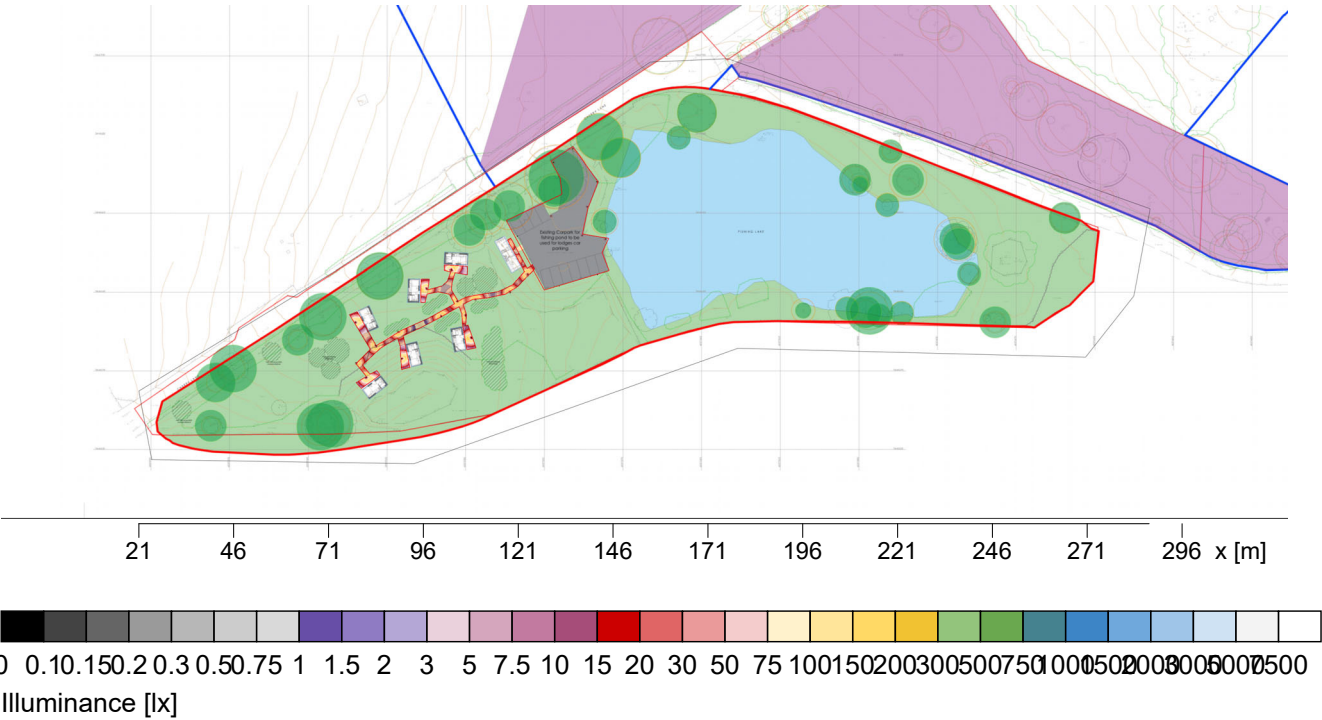
1.1.1 Floor plan



The logo for UKLD Lighting Design features the letters 'UKLD' in a large, bold, black sans-serif font. The letter 'U' has a small orange square above its top left corner. The letters 'L' and 'D' have a small orange square above their top right corners. The words 'LIGHTING DESIGN' are written in a smaller, orange, sans-serif font, positioned between the 'L' and 'D' of 'UKLD'.

1.2 Summary, Exterior 1

1.2.2 Result overview, Measuring area 2



General	
Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.80
Total luminous flux	44242.5 lm
Total power	674.9 W
Total power per area (15375.51 m²)	0.04 W/m²

Illuminance	
Average illuminance	$\bar{E}_m$ 49 lx
Minimum illuminance	E_{min} 1 lx
Maximum illuminance	E_{max} 183 lx
Uniformity U_o	$E_{min}/\bar{E}_m$ 1:71.2 (0.01)
Diversity U_d	E_{min}/E_{max} 1:269 (0)

Type No. Make

- 125 x



Ansell
Order No. : AAVIO/1/SG (24W 3000K)
Luminaire name : BOLLARDS - Avio 3000K
Equipment : 1 x LED 24 W / 1553.7 lm
- 28 x



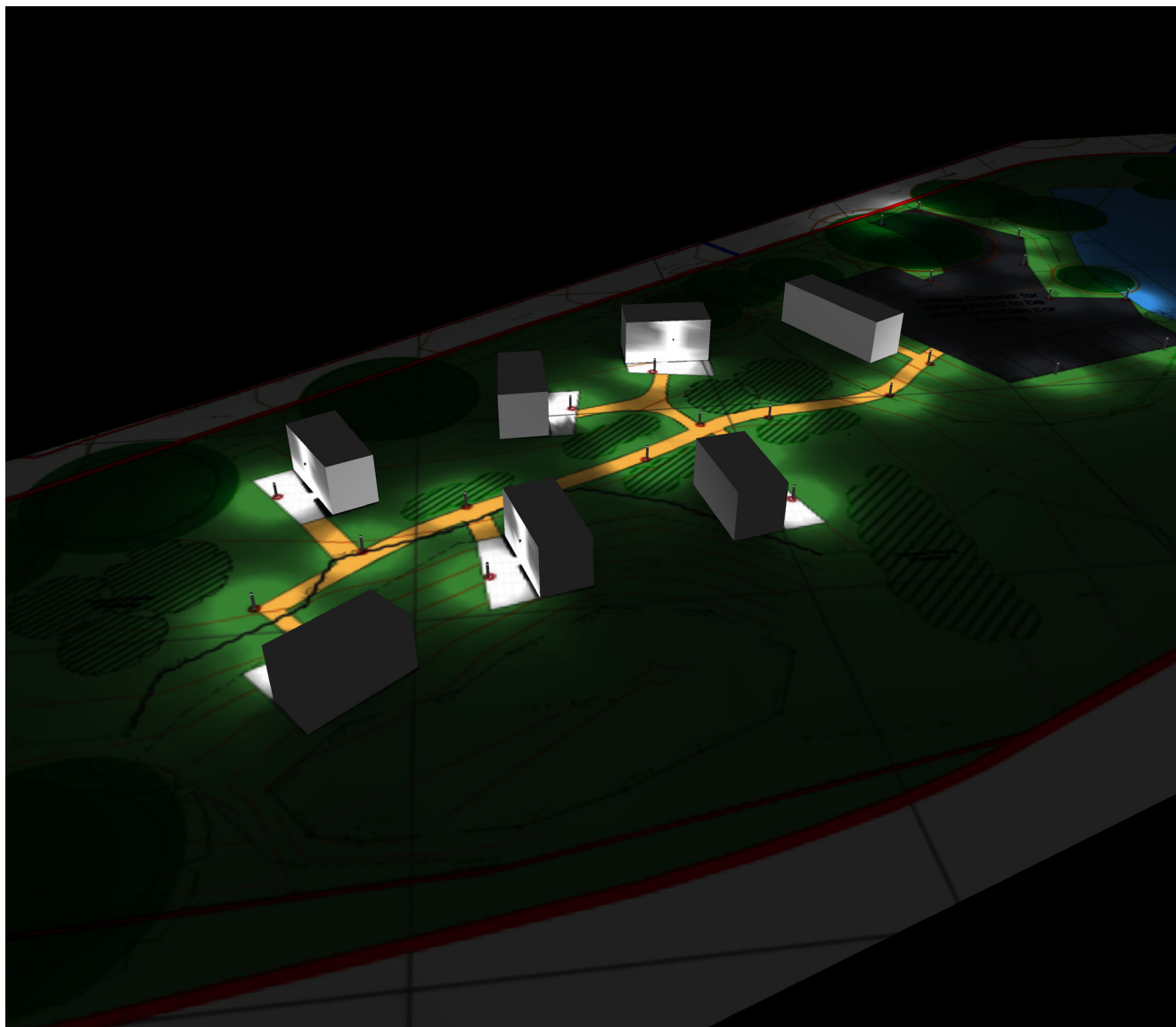
Order No. : AREFS/BD/B/1 - 3000K
Luminaire name : WALL LIGHTS - Reef S
Equipment : 1 x LED 9.36 W / 675 lm

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1 Exterior 1

1.3 Calculation results, Exterior 1

1.3.1 3D luminance, View 1



Luminance in the scene

Minimum: : 0 cd/m²
Maximum: : 25.5 cd/m²

1.3 Calculation results, Exterior 1
1.3.2 3D pseudo colours, View 1 (E)

