

1000 New Hey Road, Huddersfield

Installation : 1000 New Hey Road, Huddersfield

Project number : DB-2350-534

Customer : Complete M&E Services

Processed by : Dean Bramley

Date : 05.12.2025

We have pleasure in attaching our recommendations for lighting in 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 assumed to be open without any obstructions above the working plane unless otherwise advised.

Where applicable our recommendation conforms to the latest regulations and guidelines. If conformity to LG7 is to be proved with exact figures, we may need to add or change the luminaire types. We will generally assume common design parameters for ceiling heights and reflectance values of room surfaces based where information detailing this is not provided - these should all be confirmed as correct prior to order of goods. Maintenance Factors will also be assumed unless otherwise advised.

Please note that it is the installers responsibility to check and confirm TP(a) and TP(b) requirements as per Building Regulation Approved Document B Fire Safety document. 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 works required would be the responsibility of the client.

Where emergency lighting has been requested, this will be carried out using BS5266 as guidance however, all of our recommendations are subject to a risk assessment by the relevant party. In addition, details relating to the positioning of firefighting equipment, alarm call points and also identification of any high-risk areas is required to ensure the proposed system fully complies with current regulations. As a result, our recommendations are limited until this information is provided. Any assumptions made regarding the emergency lighting will be outlined in the accompanying correspondence to the customer. If any of assumptions made are incorrect, the lighting designer will need to be notified at the soonest opportunity to ensure any required amendments are made for compliance.

It is the responsibility of all parties involved that the emergency lighting system complies with relevant fire and health & safety regulations. In the event that the our recommendations are found not to comply, we will look to adjust this in consultation with the customer.

The following calculations are based on manufacturer lamp / luminaire data however, in practice gradual divergences can occur. Specific site conditions (such as ambient temperature) can also affect the performance of luminaires and any such adverse conditions should be detailed prior to calculations being carried out to ensure adequate provision has been for made 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, specification and/or product supplied satisfies fully and meets with the end users requirements, and is suitable for the installation - If unsure of any suggested fittings, it is advised that samples are ordered in advance or a demonstration is requested.

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.

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

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1 Luminaire data

1.1 ANSELL, CALINOR EVO 50W FLOODLIGHT... (ACAE50/1/WW/B)

1.1.1 Data sheet

Manufacturer: ANSELL



ACAE50/1/WW/B **Ceiling mounted luminaire** **CALINOR EVO 50W FLOODLIGHT - 3000K c/w PIR**
ACAE50/1/WW/B
FLOODLIGHTING
Calinor Evo
supplied c/w Integral Driver

- Compact, slim and robust designed LED floodlight suitable for residential and commercial applications
 - Polycarbonate front trim provides excellent corrosion resistance
 - Toughened microprism glass for visual comfort, uniformity and durability
 - Bracket design allows installation without removing mounting bracket
 - Pre-wired with 1 metre of rubber insulated cable for ease of installation and easy integration with Floodbox accessory
 - Breather gland acts to minimise risk of water ingress
 - Polycarbonate spike accessory allowing installation into lawn and garden applications
 - PIR versions complete with manual override facility
 - Non-dimmable
 - LED lifespan L80 69,000 hours average lifetime
-
- Suitable for both internal and external use
 - 5 Year Product Warranty
 - IP65

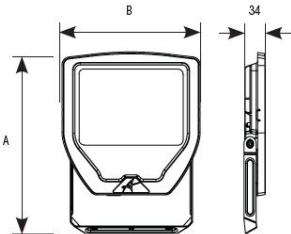
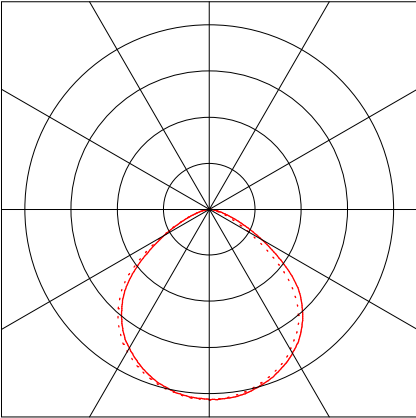
Luminaire data

Absolute Photometry
Luminaire efficacy : 105.04 lm/W
Classification : A50 ↓100.0% ↑0.0%
CIE Flux Codes : 56 89 99 100 100
UGR 4H 8H : 24.3 / 24.1
Control gear : Electronic ballast
Power : 48 W
Luminous flux : 5041.9 lm

Equipped with

Quantity : 1
Designation : LED single 830
Colour : 3000K
Socket : --
Colour reproduction : --

Dimensions : 217 mm x 206 mm x 78 mm



1 Luminaire data

1.2 ANSELL, DUAL WATTAGE ASYMMTRIC FLO... (AAZT1/ASY/1)

1.2.1 Data sheet

Manufacturer: ANSELL



AAZT1/ASY/1 Ceiling mounted luminaire DUAL WATTAGE ASYMMTRIC FLOODLIGHT @ 40W - 3000K

- High performance die-cast aluminium LED floodlight
- High output, high efficiency asymmetric lens technology for anti-light pollution
- Integral photocell with 2 x lux settings and (deleted 'on-') off options
- 10KV surge protection on 120W to 320W, 6KV surge protection on 20W to 80W
- Marine grade construction ideal for coastal and adverse weather, swimming pool and chemical plant applications
- CCT selectable between 3000K, 4000K and 5000K
- Fast fit lever terminals ensure easy and speedy loop-in, loop installation
- Pre-installed breathable gland prevents internal moisture accumulation
- LED lifespan L80 100,000 hours
- Operating Temp -30°C - 50°C
- Non-dimmable

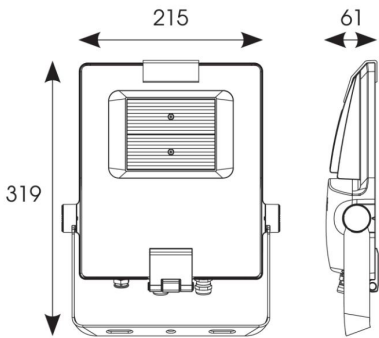
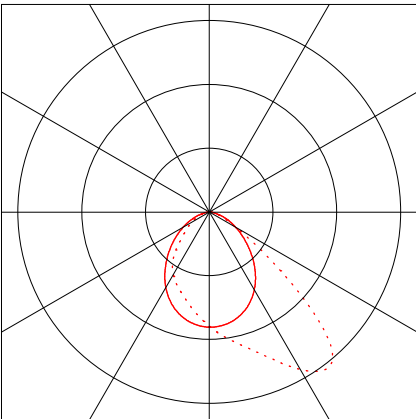
Luminaire data

Absolute Photometry	
Luminaire efficacy	: 160.14 lm/W
Classification	: A40 ↓100.0% ↑0.0%
CIE Flux Codes	: 53 88 99 100 100
UGR 4H 8H	: 27.5 / 22.6
Control gear	: Electronic ballast
Power	: 40 W
Luminous flux	: 6405.7 lm

Equipped with

Quantity	: 1
Designation	: LED
Colour	: --
Socket	: --

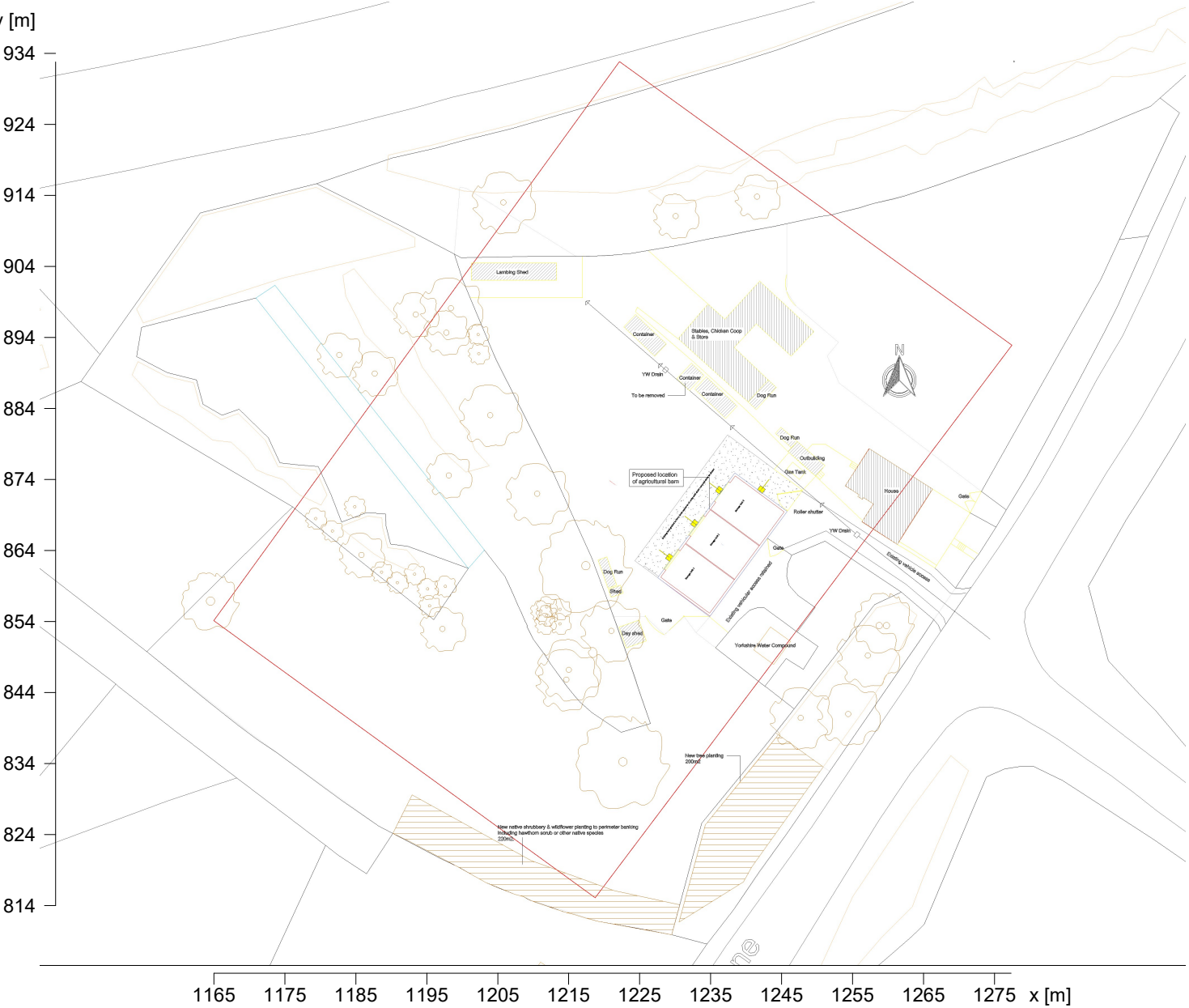
Dimensions : 253 mm x 215 mm x 73 mm



2 50W PIR - 0 DEGREE TILT

2.1 Description, 50W PIR - 0 DEGREE TILT

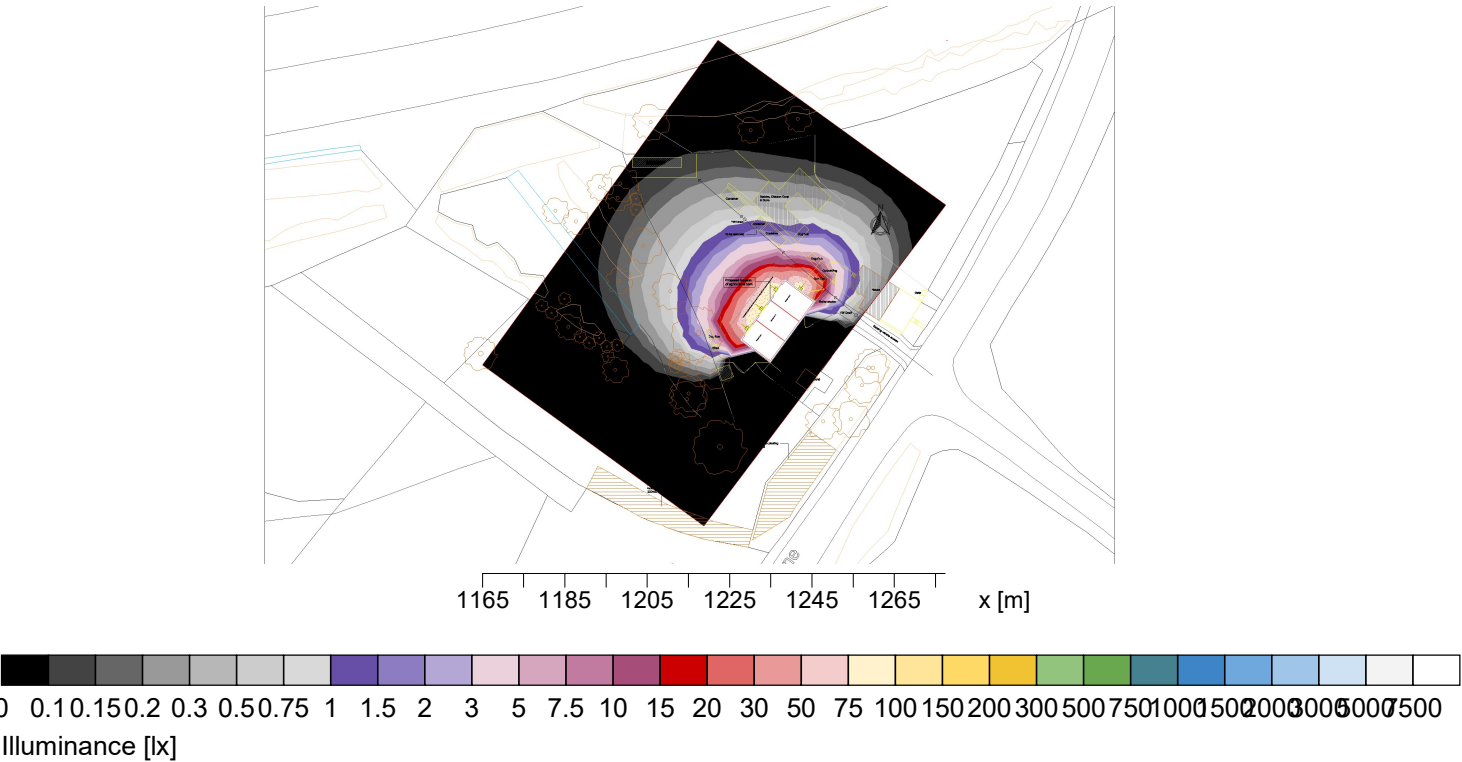
2.1.1 Floor plan



250W PIR - 0 DEGREE TILT

2.2Summary, 50W PIR - 0 DEGREE TILT

2.2.1Result overview, Evaluation area 1



General	
Calculation algorithm used	Average indirect fraction
Height (phot centre)	4.14 m
Maintenance factor	0.80
Total lamp luminous flux	
20168.00 lm	
Luminaire luminous flux	
20167.69 lm	
Total power	
192.0 W	
Total power per area (6540.10 m²)	
0.03 W/m² (1.14 W/m²/100lx)	

Evaluation area 1	Reference plane 1.1
	Horizontal
Em	2.58 lx
Emin	0 lx
Emin/Em (Uo)	---
Emin/Emax (Ud)	---
Position	0.00 m

Type No.\Make

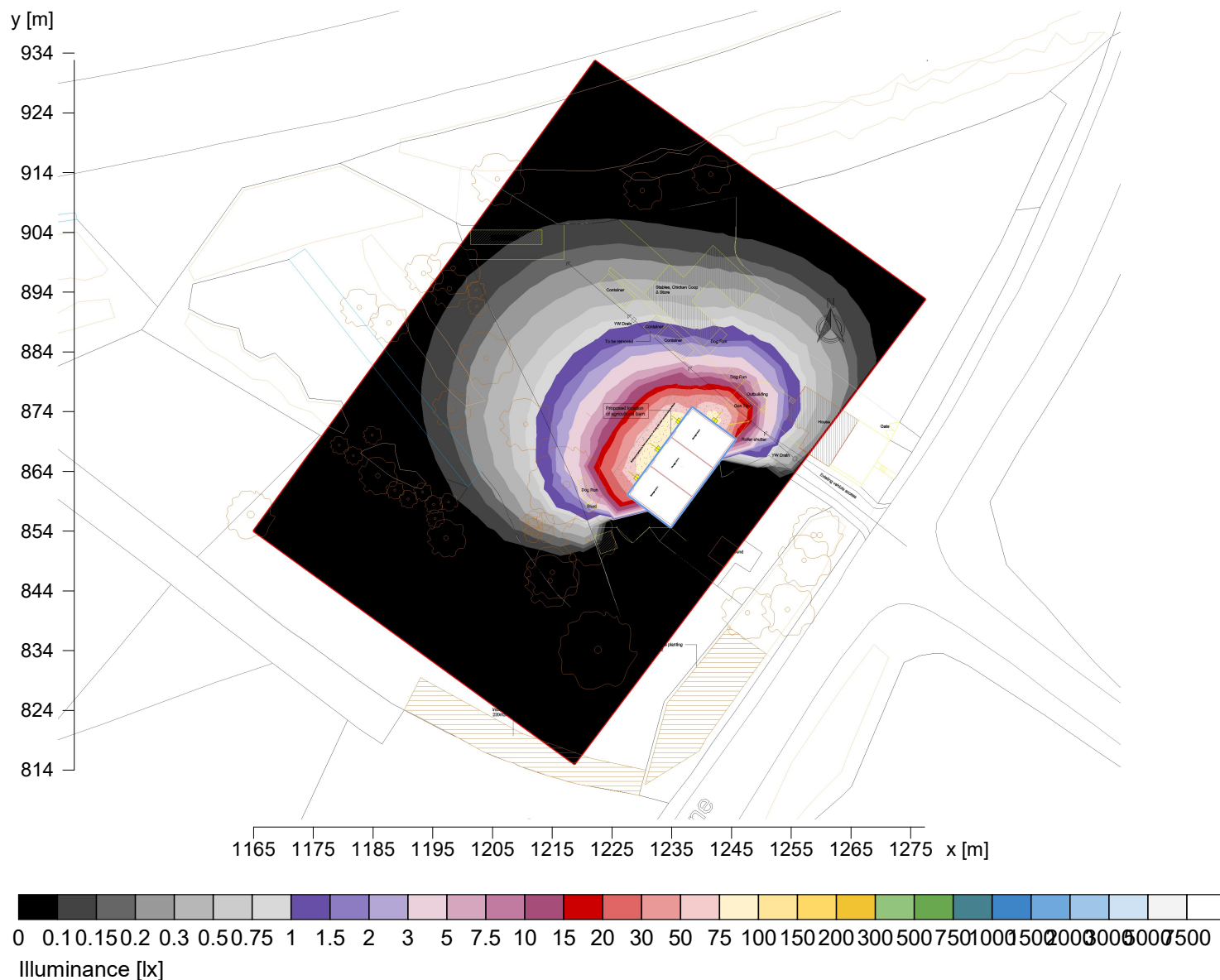
1	4 x	ANSELL
		Order No. : ACAE50/1/WW/B
		Luminaire name : CALINOR EVO 50W FLOODLIGHT - 3000K c/w PIR
		Equipment : 1 x LED single 830 48 W / 5042 lm





UKLD LIGHTING DESIGN

2.3.2 Pseudo colours, Reference plane 1.1 (E)

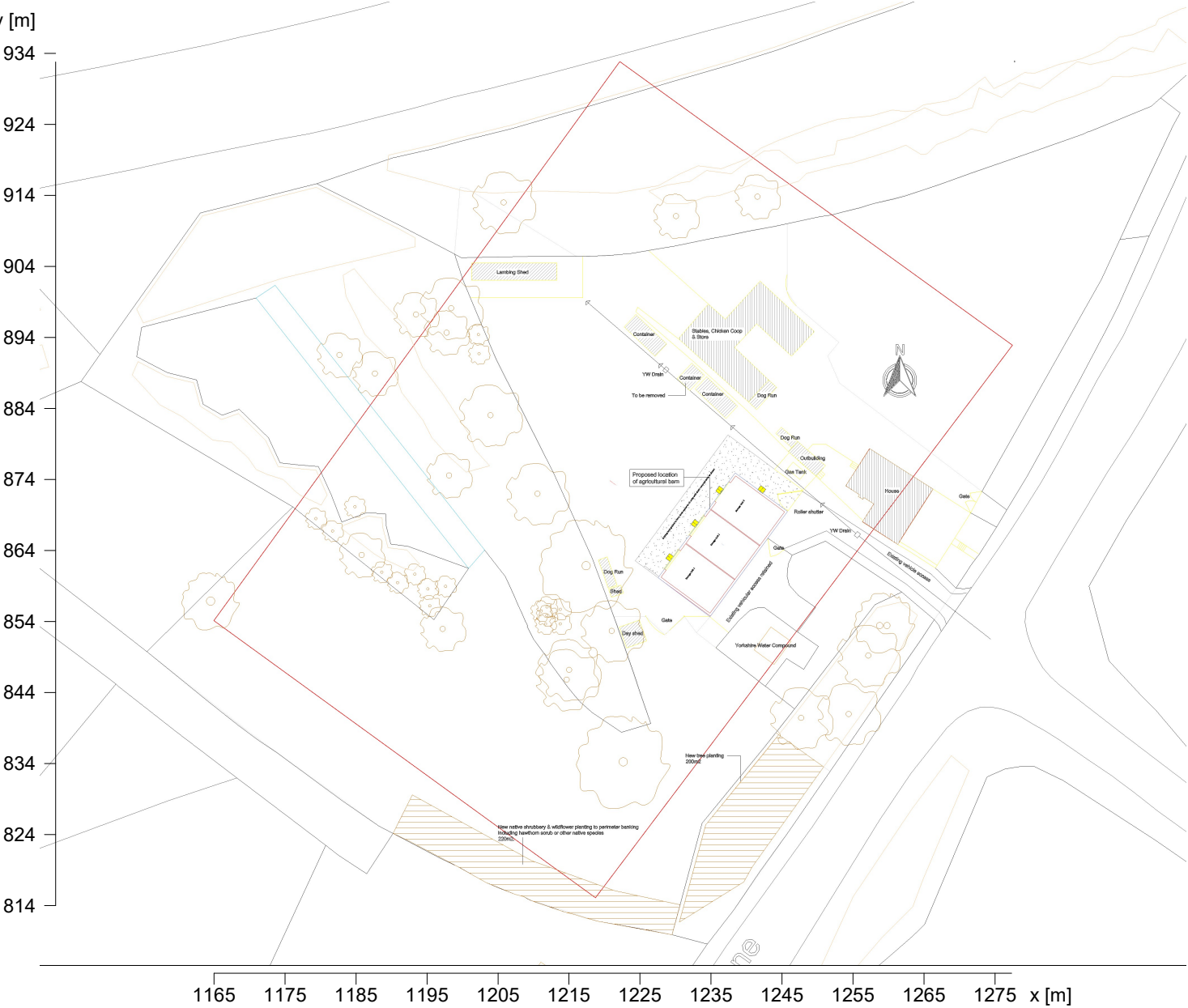


	: 0.00 m
$\bar{E}_m$	: 2.6 lx
E_{min}	: 0 lx
E_{max}	: 95.8 lx
$E_{min}/\bar{E}_m$	: ---

3 50W PIR - 25 DEGREE TILT

3.1 Description, 50W PIR - 25 DEGREE TILT

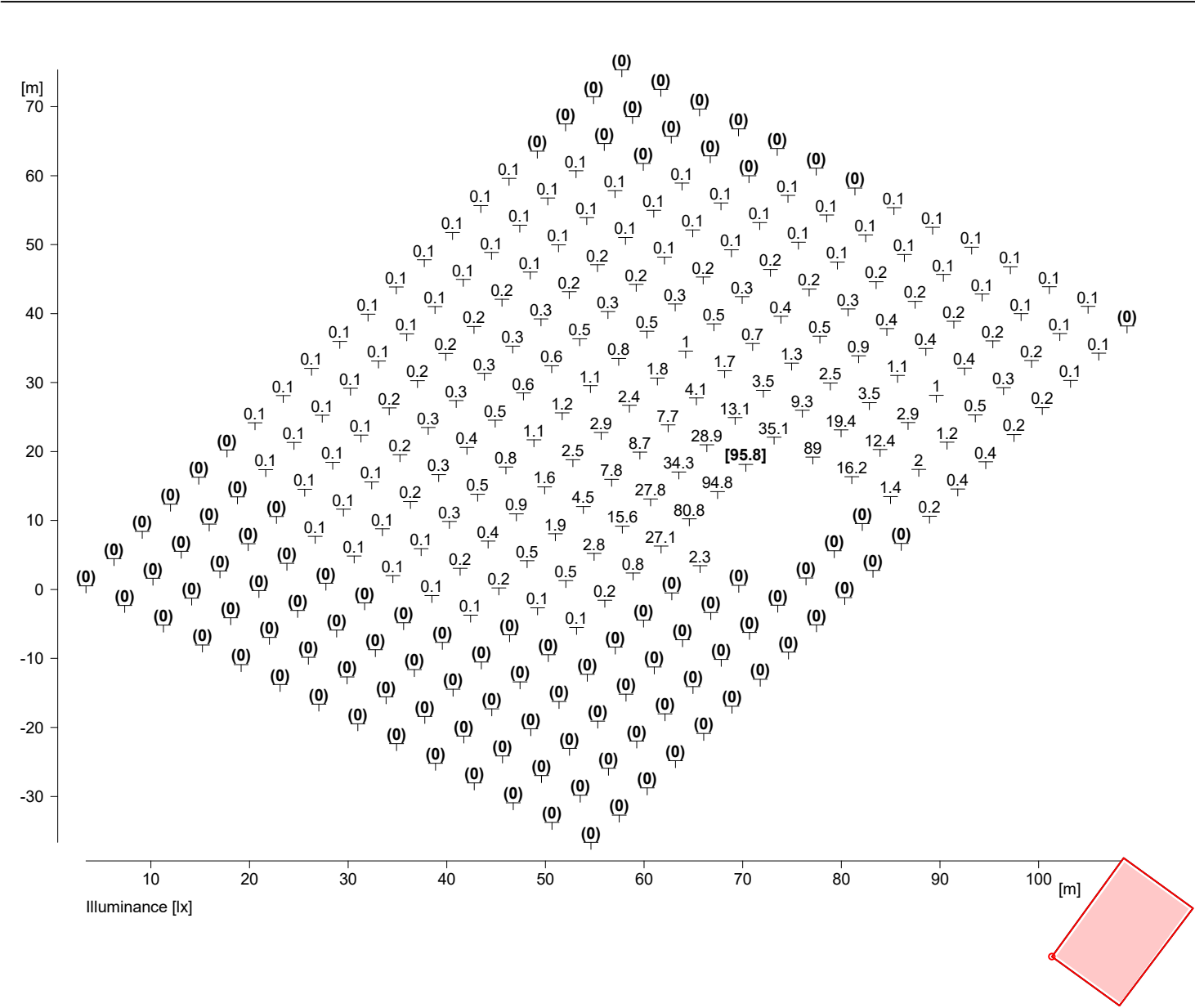
3.1.1 Floor plan



3 50W PIR - 25 DEGREE TILT

3.2 Calculation results, 50W PIR - 25 DEGREE TILT

3.2.1 Table, Reference plane 1.1 (E)

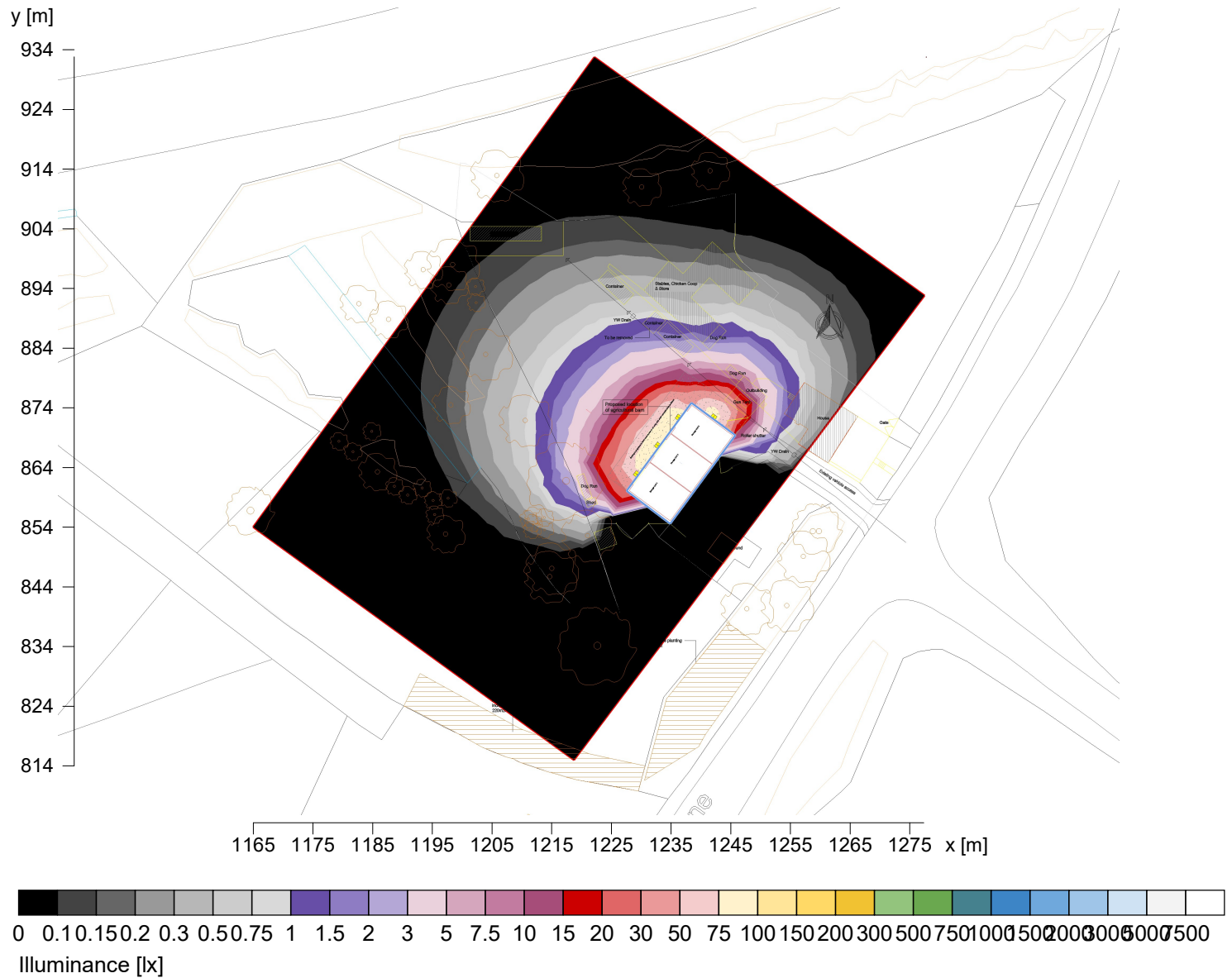


Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 2.6 lx
Minimum illuminance	E_{min}	: 0 lx
Maximum illuminance	E_{max}	: 95.8 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: ---



UKLED LIGHTING DESIGN

3.2.2 Pseudo colours, Reference plane 1.1 (E)

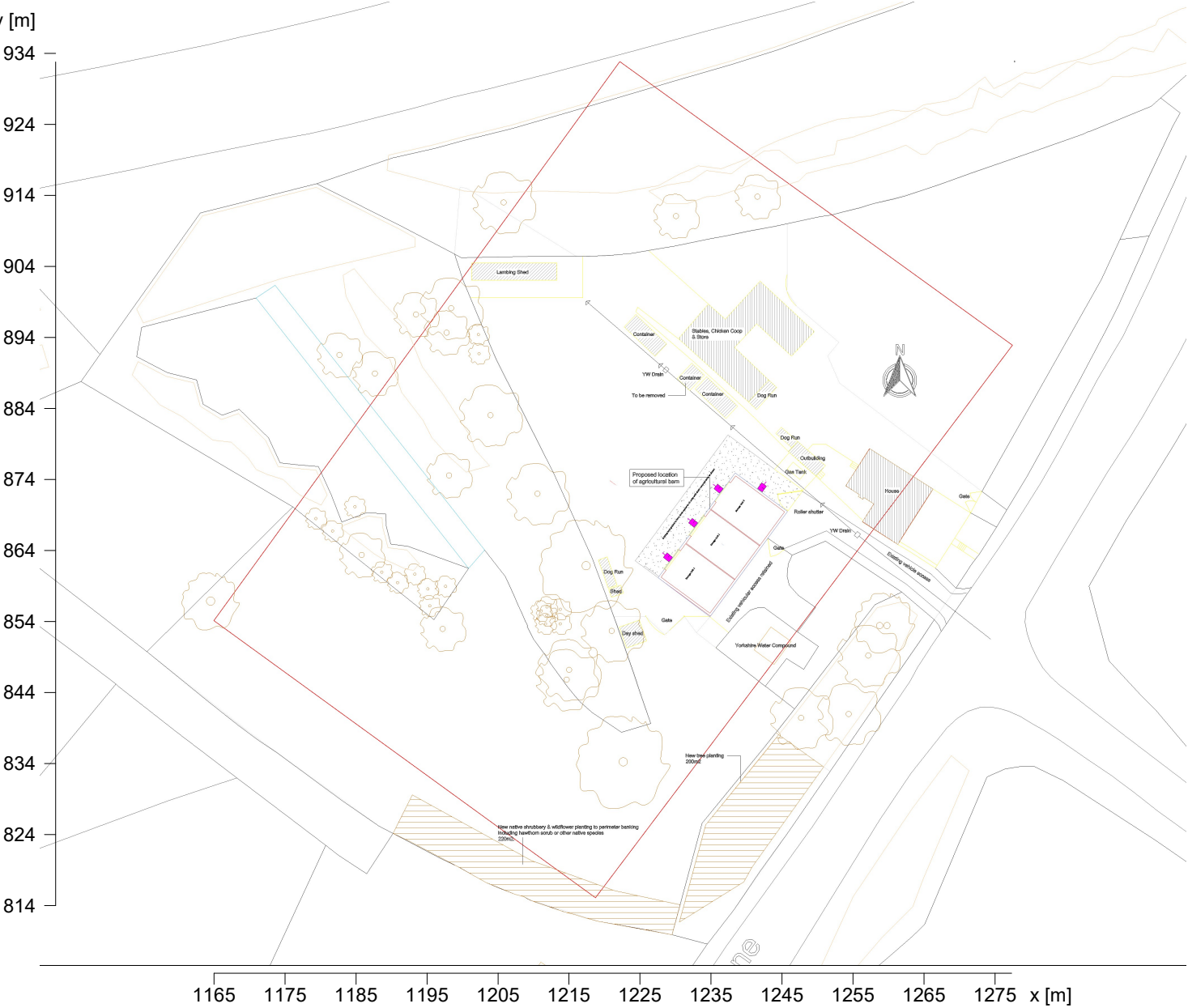


	: 0.00 m
$\bar{E}_m$	: 2.6 lx
E_{min}	: 0 lx
E_{max}	: 95.8 lx
$E_{min}/\bar{E}_m$	: ---

4 40W ASYMMETRIC LED FLOODLIGHT 20 DEGREE

4.1 Description, 40W ASYMMETRIC LED FLOODLIGHT 20 DEGREE

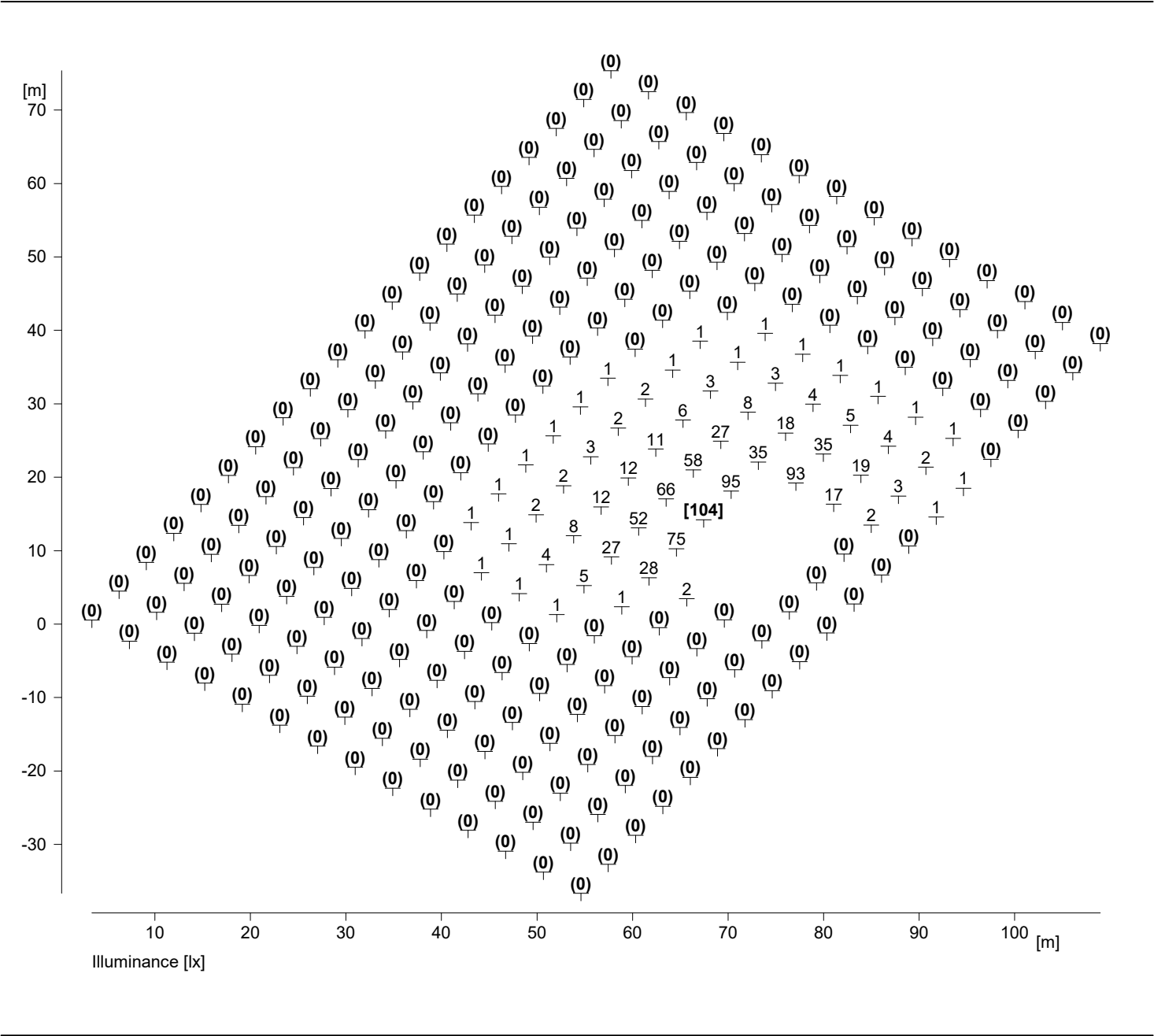
4.1.1 Floor plan



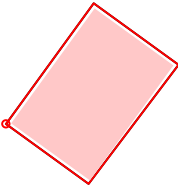
4 40W ASYMMETRIC LED FLOODLIGHT 20 DEGREE

4.2 Calculation results, 40W ASYMMETRIC LED FLOODLIGHT 20 DEGREE

4.2.1 Table, Reference plane 1.1 (E)

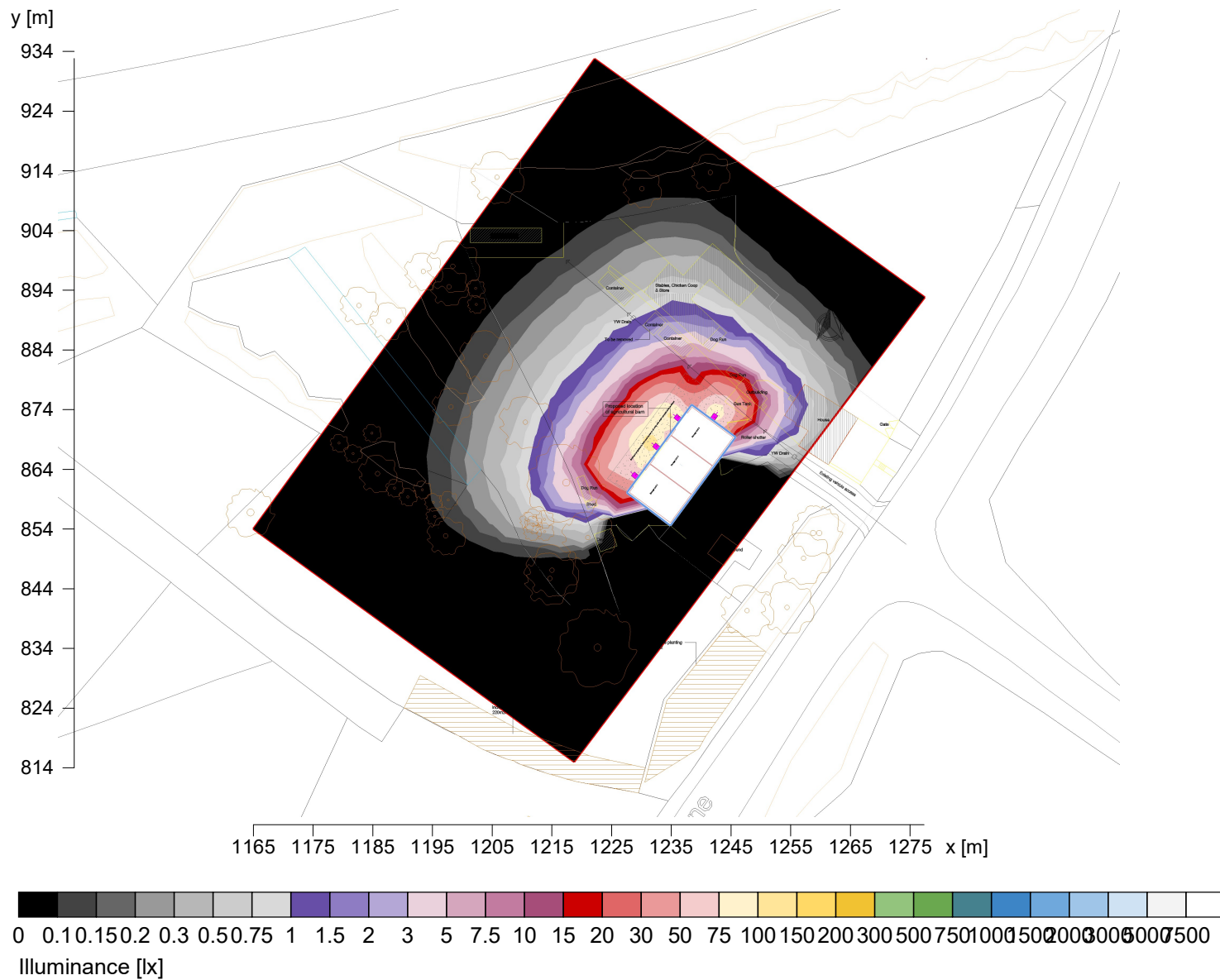


Height reference plane	: 0.00 m
Average illuminance	$\bar{E}_m$: 3 lx
Minimum illuminance	E_{min} : 0 lx
Maximum illuminance	E_{max} : 104 lx
Uniformity U_o	$E_{min}/\bar{E}_m$: ---



The logo for UKLD Lighting Design features the letters 'UKLD' in a large, bold, black sans-serif font. The 'U' and 'K' are joined together, as are the 'L' and 'D'. The words 'LIGHTING DESIGN' are written in a smaller, orange, sans-serif font, positioned between the 'K' and 'L'.

4.2.2 Pseudo colours, Reference plane 1.1 (E)



	: 0.00 m
$\bar{E}_m$	: 3 lx
E_{min}	: 0 lx
E_{max}	: 104 lx
$E_{min}/\bar{E}_m$	: ---