



Outdoor Equestrian Arena

Installation : Proposed Lighting

Project number : QUO-242017-WXZPKL

Customer : TPQ

Processed by : Gordon Ng

Date : 26.11.2025

Project description:

All room/exterior area dimensions to be checked on-site prior to ordering.

Calculation based on standard reflectance values as 70/50/20 and Maintenance Factor 0.8.

Lighting designed to CIBSE guidelines where applicable and/or client requirements, all stated lux values are for overall averages across the room reference plane.

It is the responsibility of the customer to ensure any scheme provided by Ansell meets all requirements of the end user.

All flood lights are mounted at 8m columns with tilt angle 30 degree.

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, FLOODLIGHTS - Exa (AEXA2/UWB/1)

1.1.1 Data sheet

Manufacturer: ANSELL



AEXA2/UWB/1 Ceiling mounted luminaire FLOODLIGHTS - Exa

- High performance coastal marine-grade aluminum floodlight suitable for large-scale external floodlighting in open areas, high-mast setups, coastal and sports environments.
- High output, high efficiency floodlight offering lumen packages from 57,000 (400W) to 175,000 (1200W) lumens
- AkzoNobel anti-corrosion powder coating ensures exceptional durability in harsh environments
- Lightweight, compact design with low-density aluminum alloy for easy handling and installation
- Magnetic aiming device for fast and accurate alignment during installation
- Visor accessories available for effective glare control and light spill reduction

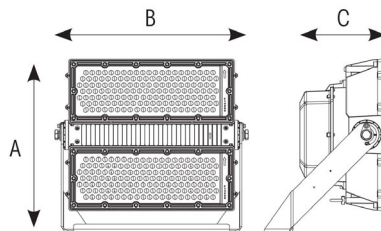
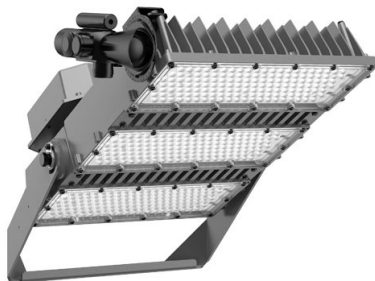
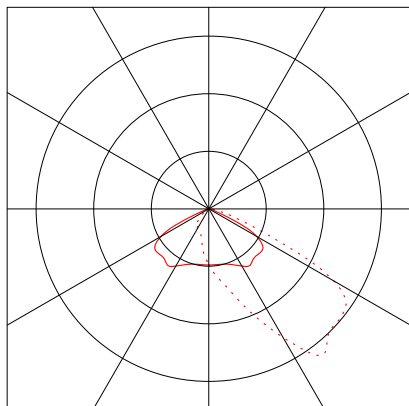
Luminaire data

Absolute Photometry
 Luminaire efficacy : 145.69 lm/W
 Classification : A40 ↓100.0% ↑0.0%
 CIE Flux Codes : 38 79 99 100 100
 UGR 4H 8H : 35.0 / 18.0
 Control gear : Electronic ballast
 Power : 600 W
 Luminous flux : 87414.5 lm

Equipped with

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

Dimensions : 450 mm x 313 mm x 73 mm



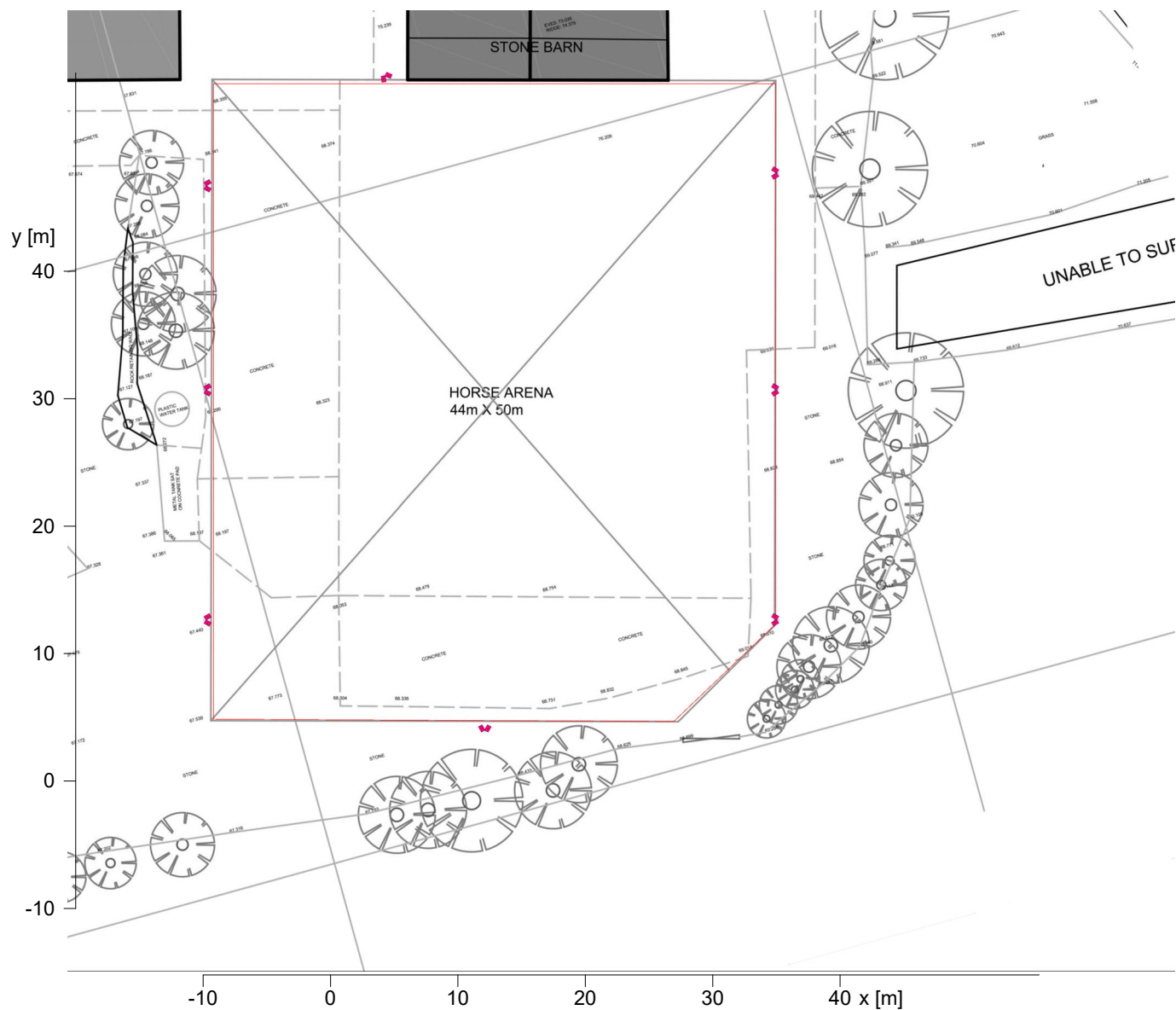
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2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Floor plan



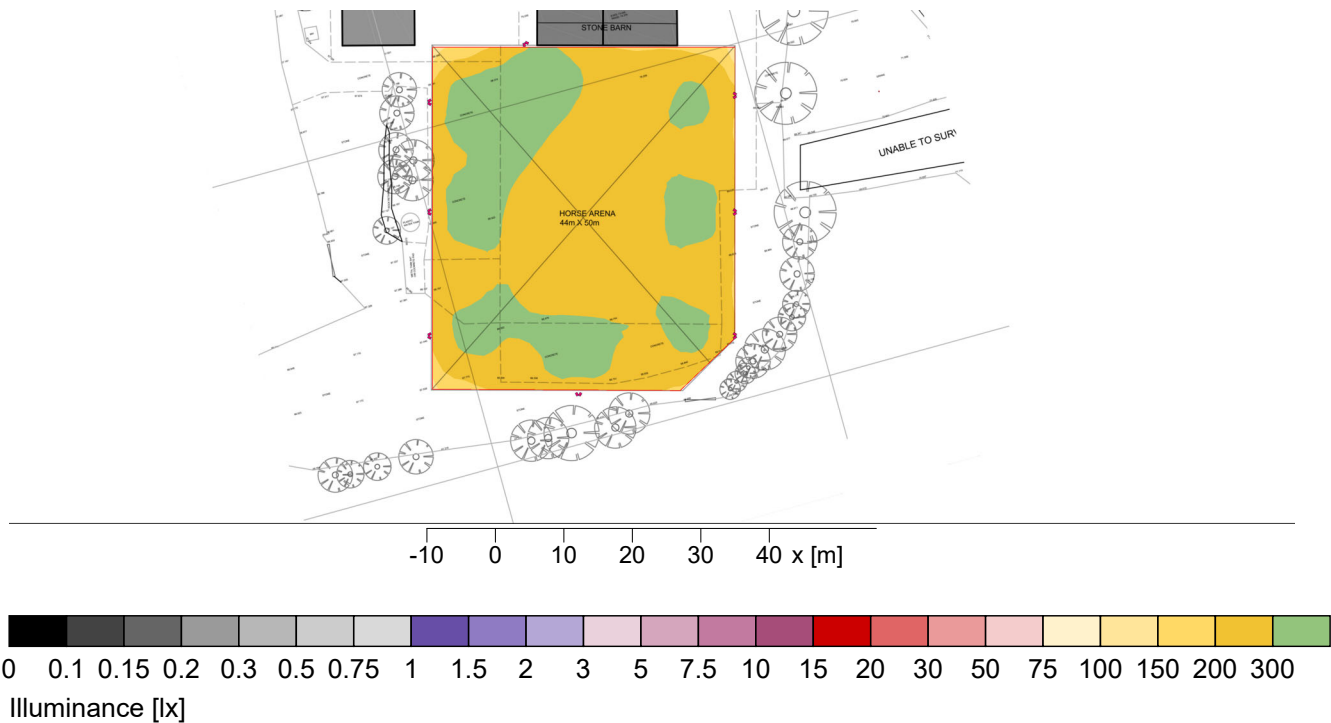
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2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used	Average indirect fraction
Height (phot centre)	8.00 m
Maintenance factor	0.80
Luminaire luminous flux	524487.00 lm
Total power	3600.0 W
Total power per area (2171.68 m²)	1.66 W/m² (0.59 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

	Horizontal
$\bar{E}_m$	280 lx
E_{min}	173 lx
$E_{min}/\bar{E}_m (U_o)$	0.62
$E_{min}/E_{max} (U_d)$	0.45
Position	0.00 m

Type No.1Make

1 6 x	ANSELL	
	Order No.	: AEXA2/UWB/1
	Luminaire name	: FLOODLIGHTS - Exa
	Equipment	: 1 x LED 600 W / 87414.5 lm

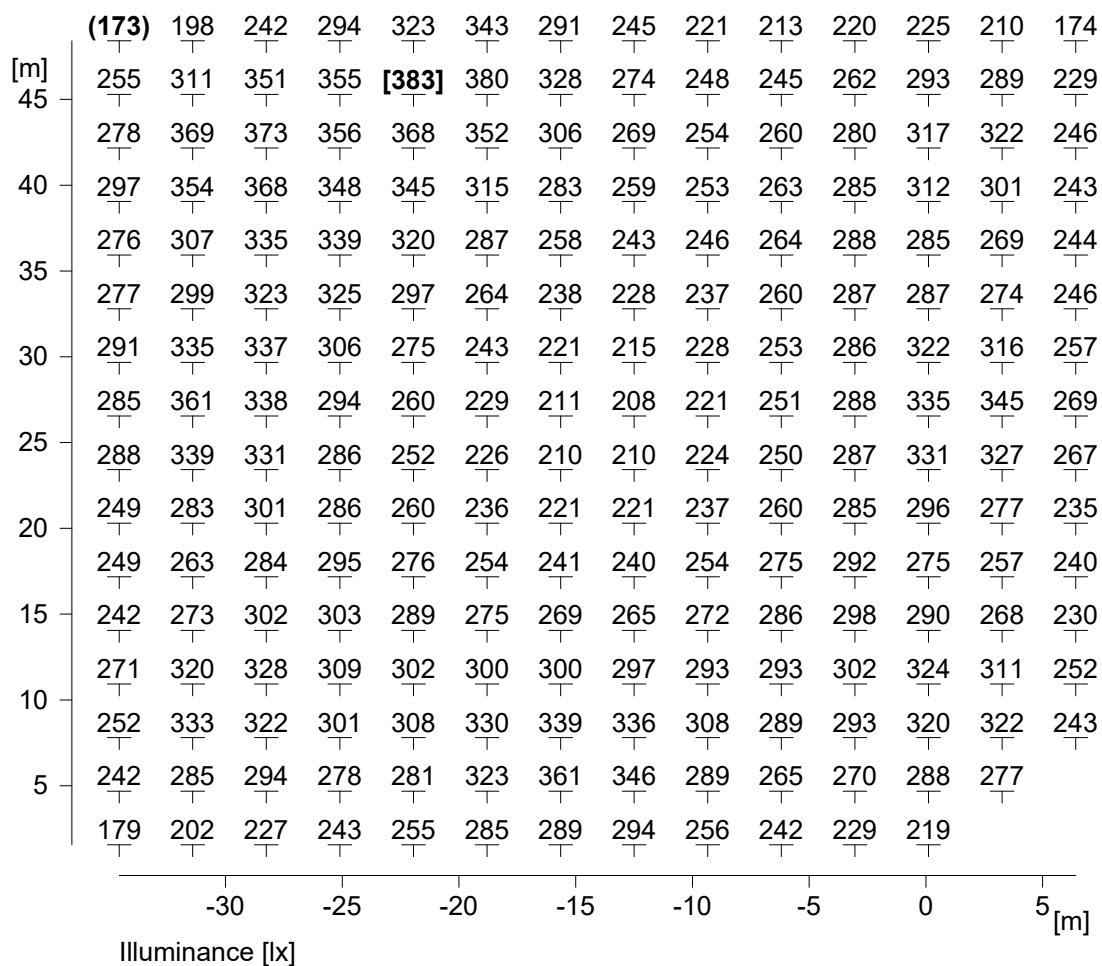
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2 Exterior 1

2.3 Calculation results, Exterior 1

2.3.1 Table, Reference plane 1.1 (E)



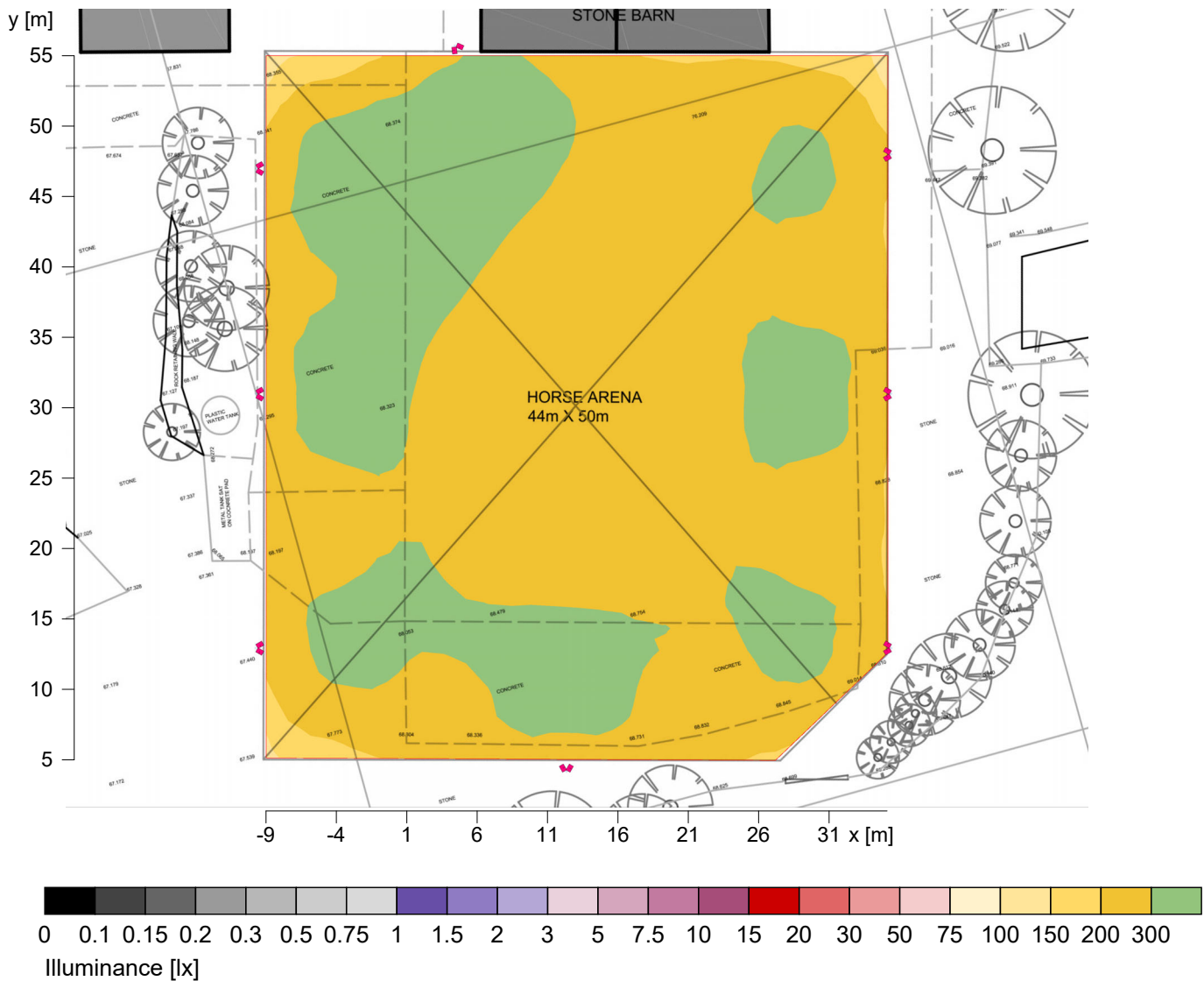
Height reference plane : 0.00 m
 Average illuminance $\bar{E}_m$: 280 lx
 Minimum illuminance E_{min} : 173 lx
 Maximum illuminance E_{max} : 383 lx
 Uniformity U_o $E_{min}/\bar{E}_m$: 1 : 1.62 (0.62)

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2.3 Calculation results, Exterior 1

2.3.2 Pseudo colours, Reference plane 1.1 (E)



Height reference plane		: 0.00 m
Average illuminance	$\bar{E}_m$	: 280 lx
Minimum illuminance	E_{min}	: 173 lx
Maximum illuminance	E_{max}	: 383 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	: 1 : 1.62 (0.62)