

Vilalge Hotel Eastleigh

Installation : Outdoor Gym

Project number : AH24041

Customer : Paton Developments

Processed by : A. Hector

Date : 16.01.2024

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.

1 Luminaire data

1.1 BELL Lighting Limited, Skyline Cosmos 50W 3000K Asymmetri... (10938)

1.1.1 Data sheet

Manufacturer: BELL Lighting Limited

10938 Skyline Cosmos 50W 3000K Asymmetric Floodlight

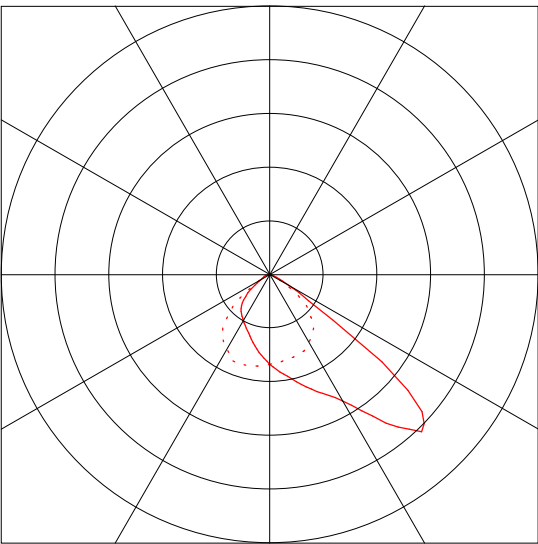
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 122.3 lm/W
Classification : A50 ↓100.0% ↑0.0%
CIE Flux Codes : 55 97 100 100 100
UGR 4H 8H : 34.2 / 27.9
Power : 50 W
Luminous flux : 6115 lm

Equipped with

Quantity : 1
Designation : LED
Colour :
Luminous flux : 6115 lm

Dimensions : 203 mm x 282 mm x 57 mm



1 Luminaire data

1.2 BELL Lighting Limited, Skyline Cosmos 30W 3000K Asymmetri... (10937)

1.2.1 Data sheet

Manufacturer: BELL Lighting Limited

10937 Skyline Cosmos 30W 3000K Asymmetric Floodlight

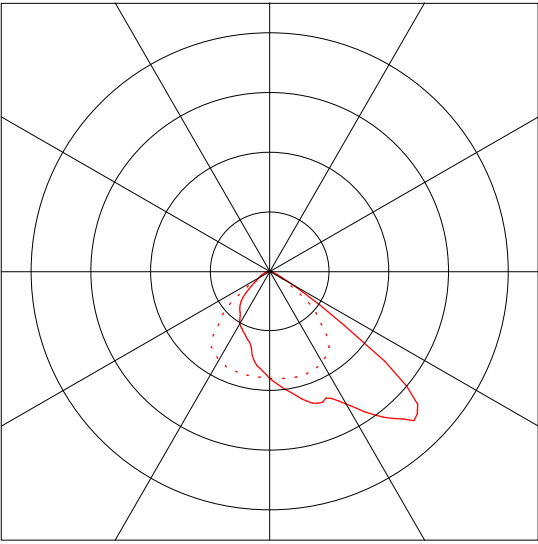
Luminaire data

Luminaire efficiency : 100%
Luminaire efficacy : 114.55 lm/W
Classification : A50 ↓100.0% ↑0.0%
CIE Flux Codes : 56 96 100 100 100
UGR 4H 8H : 33.4 / 28.0
Power : 29 W
Luminous flux : 3322 lm

Equipped with

Quantity : 1
Designation : LED
Colour :
Luminous flux : 3322 lm

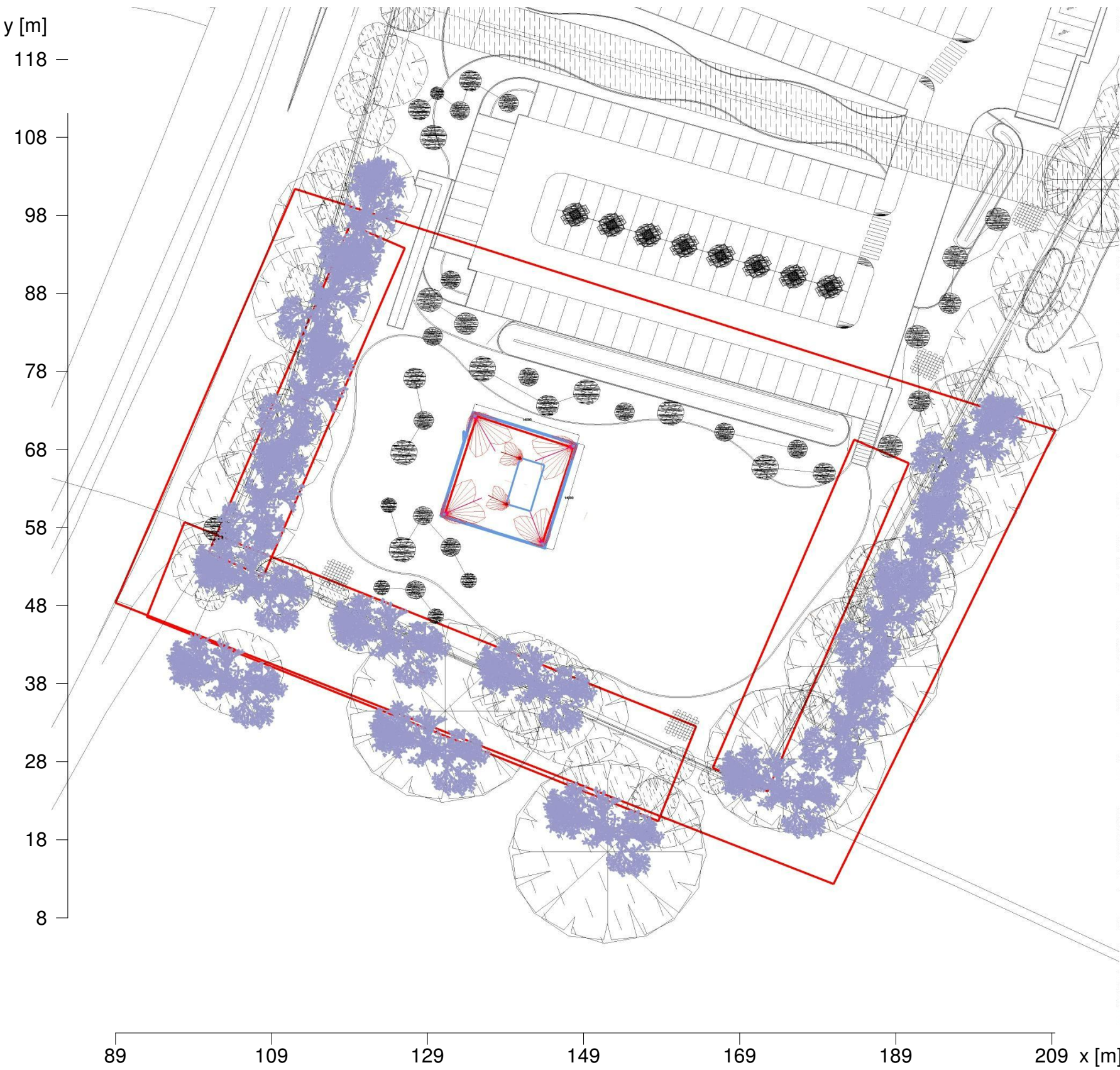
Dimensions : 176 mm x 219 mm x 42 mm



2 Exterior 1

2.1 Description, Exterior 1

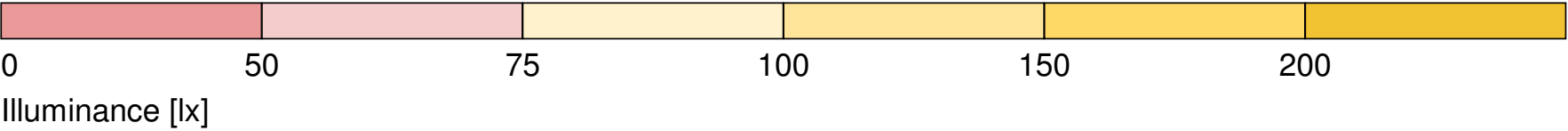
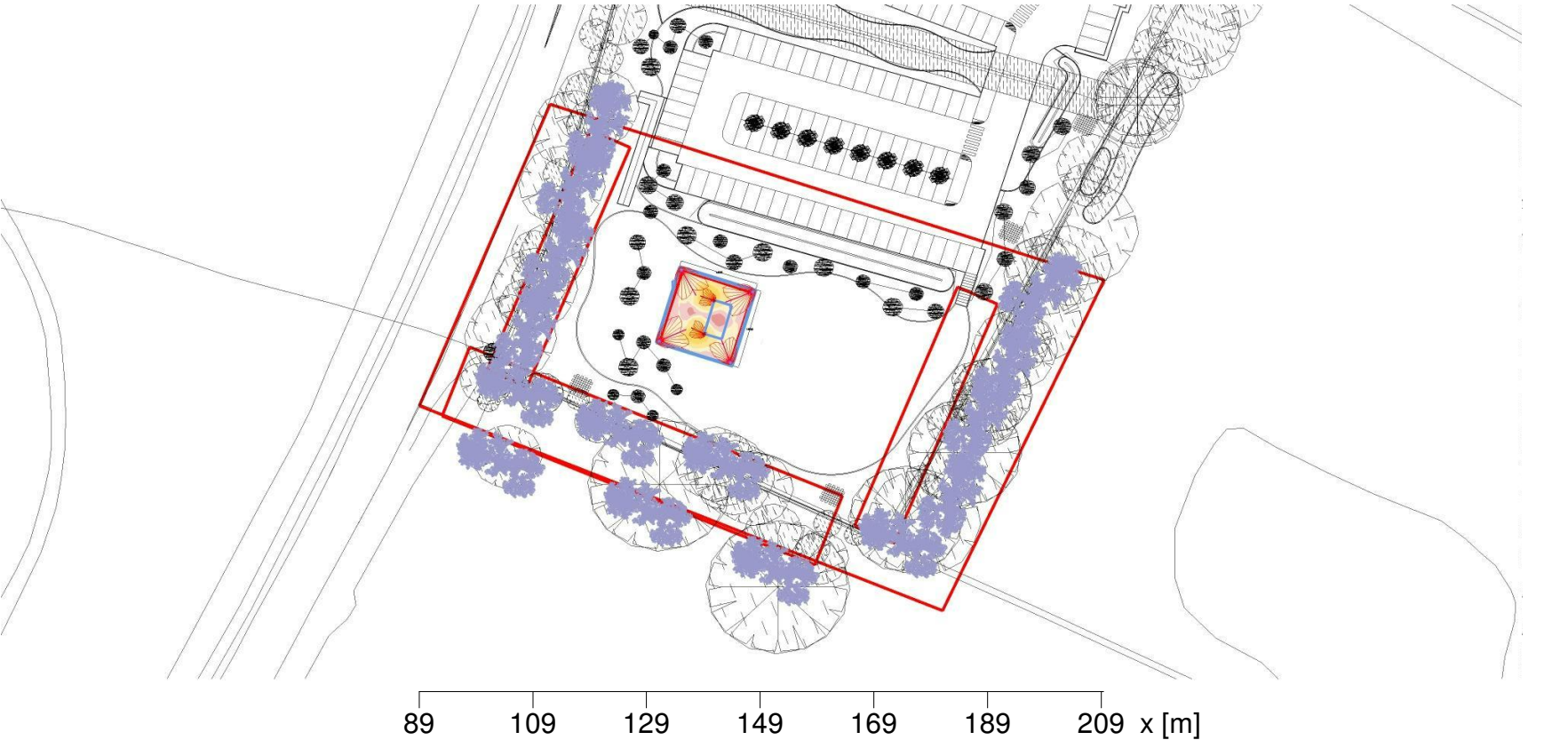
2.1.1 Floor plan



2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Inside Gym Perimeter



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.90

Total luminous flux	31104 lm
Total power	258 W
Total power per area (6122.01 m²)	0.04 W/m²

Illuminance

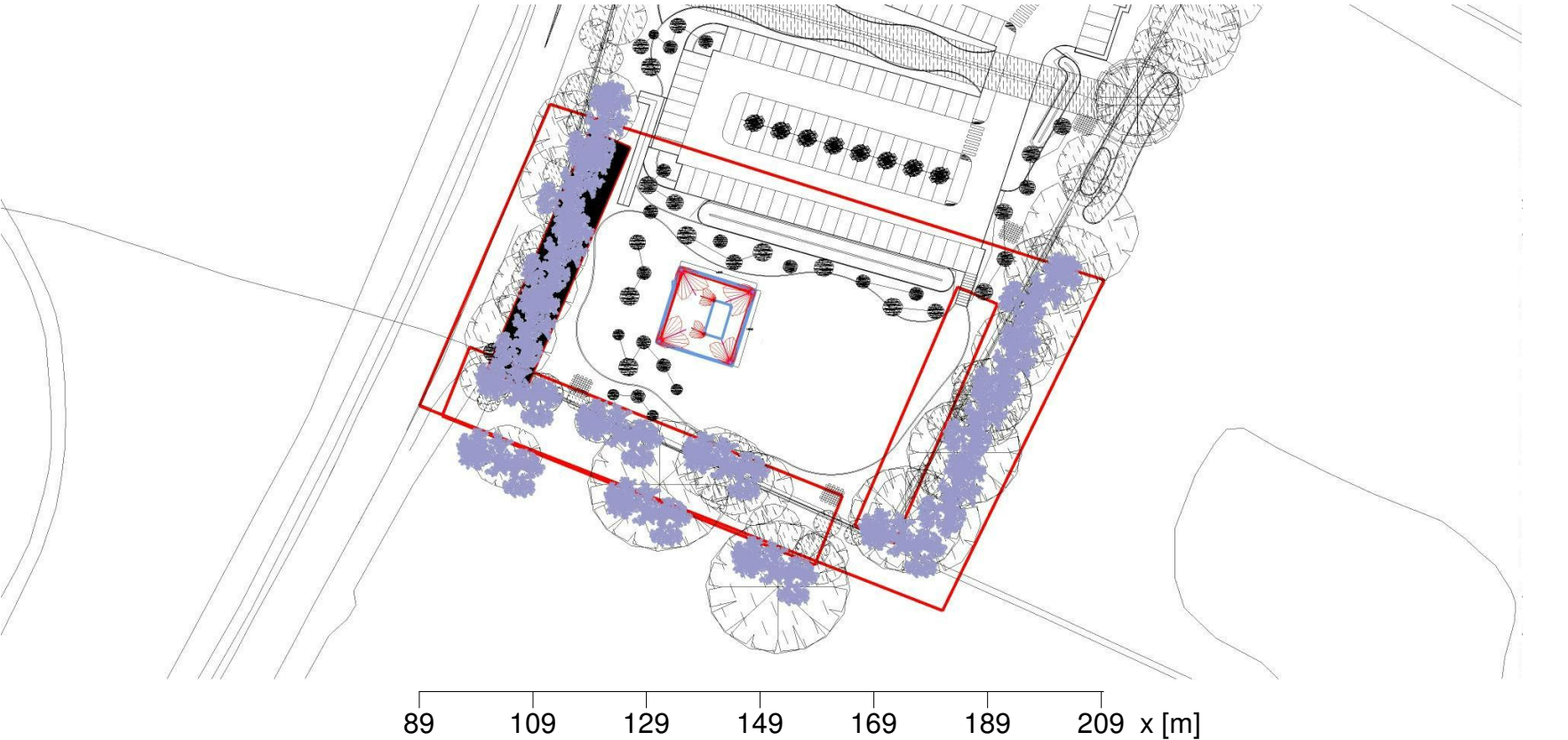
Average illuminance	$\bar{E}_m$	98 lx
Minimum illuminance	E_{min}	38 lx
Maximum illuminance	E_{max}	202 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:2.6 (0.38)
Diversity U_d	E_{min}/E_{max}	1:5.4 (0.19)

Type No.\Make

BELL Lighting Limited			
4	4 x	Order No.	: 10938
		Luminaire name	: Skyline Cosmos 50W 3000K Asymmetric Floodlight
		Equipment	: 1 x LED 50 W / 6115 lm
5	2 x	Order No.	: 10937
		Luminaire name	: Skyline Cosmos 30W 3000K Asymmetric Floodlight
		Equipment	: 1 x LED 29 W / 3322 lm

2.2 Summary, Exterior 1

2.2.2 Result overview, Bournemouth Road Side



General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.90
Total luminous flux	31104 lm
Total power	258 W
Total power per area (6122.01 m²)	0.04 W/m²

Illuminance

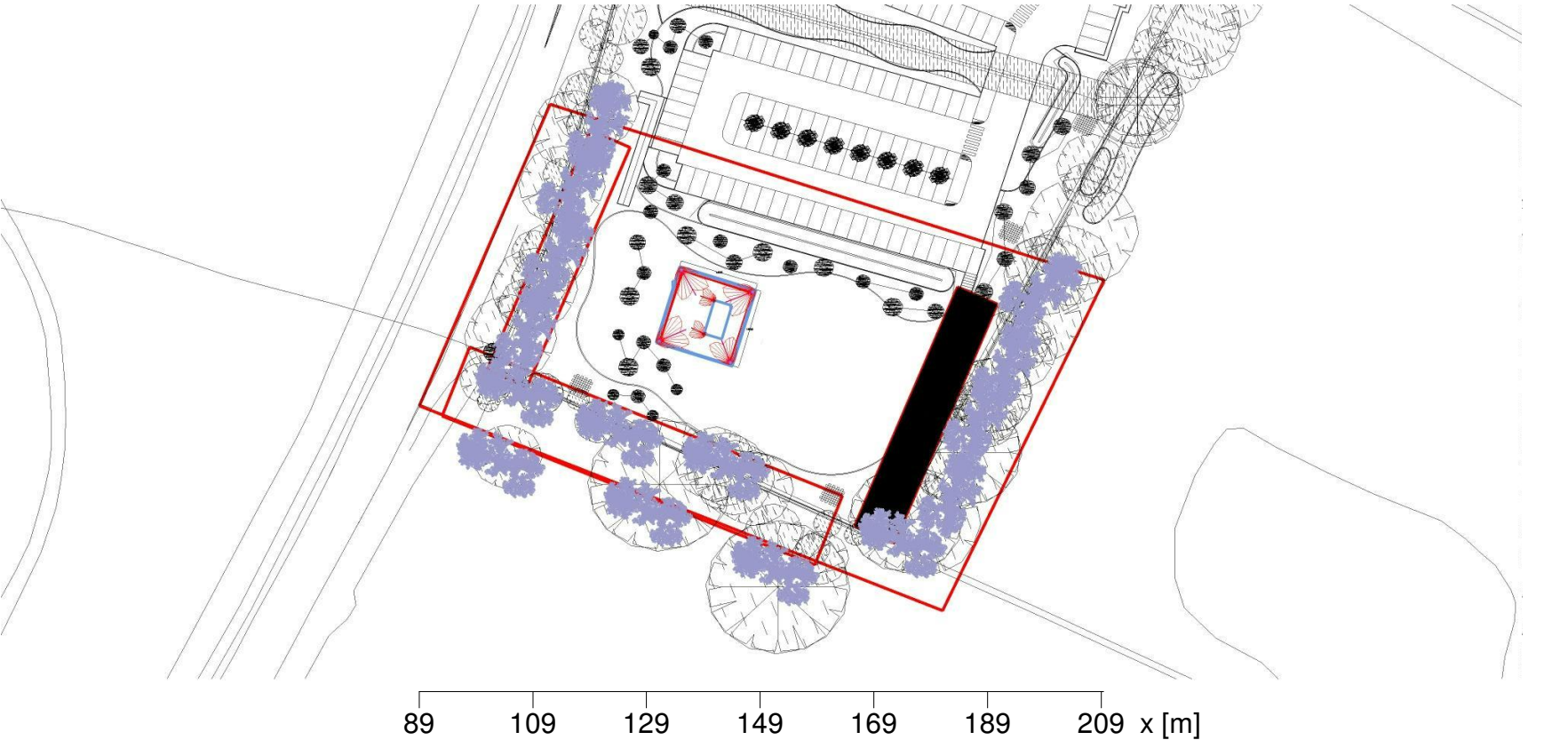
Average illuminance	$\bar{E}_m$	0.02 lx
Minimum illuminance	E_{min}	0 lx
Maximum illuminance	E_{max}	0.06 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:9.81 (0.1)
Diversity U_d	E_{min}/E_{max}	1:32.3 (0.03)

Type No.\Make

		BELL Lighting Limited	
4	4 x	Order No.	: 10938
		Luminaire name	: Skyline Cosmos 50W 3000K Asymmetric Floodlight
		Equipment	: 1 x LED 50 W / 6115 lm
5	2 x	Order No.	: 10937
		Luminaire name	: Skyline Cosmos 30W 3000K Asymmetric Floodlight
		Equipment	: 1 x LED 29 W / 3322 lm

2.2 Summary, Exterior 1

2.2.3 Result overview, South East Side



Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.90
Total luminous flux	31104 lm
Total power	258 W
Total power per area (6122.01 m²)	0.04 W/m²

Illuminance

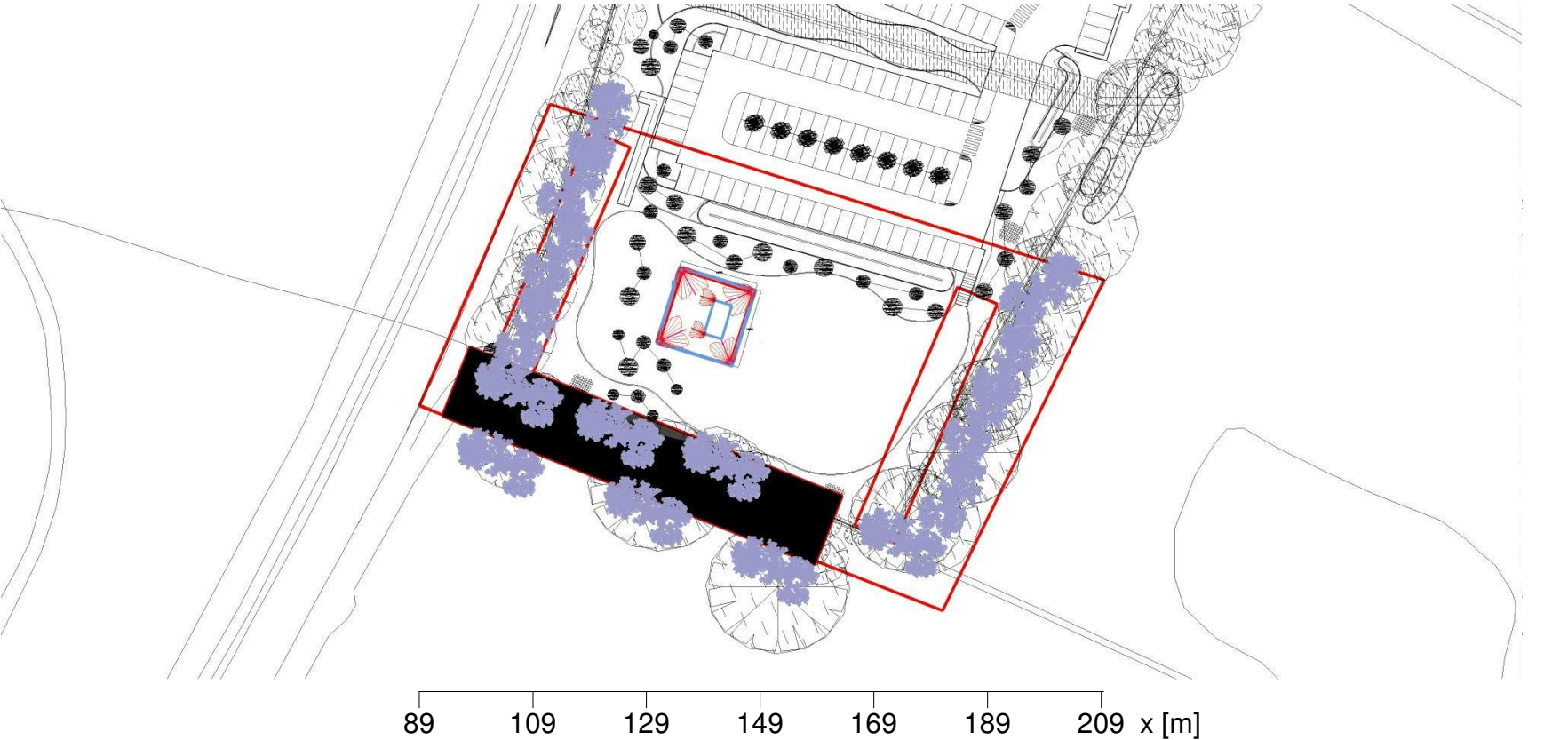
Average illuminance	$\bar{E}_m$	0 lx
Minimum illuminance	E_{min}	0 lx
Maximum illuminance	E_{max}	0 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:--- (---)
Diversity U_d	E_{min}/E_{max}	1:--- (---)

Type No.\Make

BELL Lighting Limited			
4	4 x	Order No.	: 10938
		Luminaire name	: Skyline Cosmos 50W 3000K Asymmetric Floodlight
		Equipment	: 1 x LED 50 W / 6115 lm
5	2 x	Order No.	: 10937
		Luminaire name	: Skyline Cosmos 30W 3000K Asymmetric Floodlight
		Equipment	: 1 x LED 29 W / 3322 lm

2.2 Summary, Exterior 1

2.2.4 Result overview, South West Side



Illuminance [lx]

General

Calculation algorithm used	Average indirect fraction
Height of evaluation surface	0.00 m
Maintenance factor	0.90
Total luminous flux	31104 lm
Total power	258 W
Total power per area (6122.01 m²)	0.04 W/m²

Illuminance

Average illuminance	$\bar{E}_m$	0.02 lx
Minimum illuminance	E_{min}	0 lx
Maximum illuminance	E_{max}	0.14 lx
Uniformity U_o	$E_{min}/\bar{E}_m$	1:--- (---)
Diversity U_d	E_{min}/E_{max}	1:--- (---)

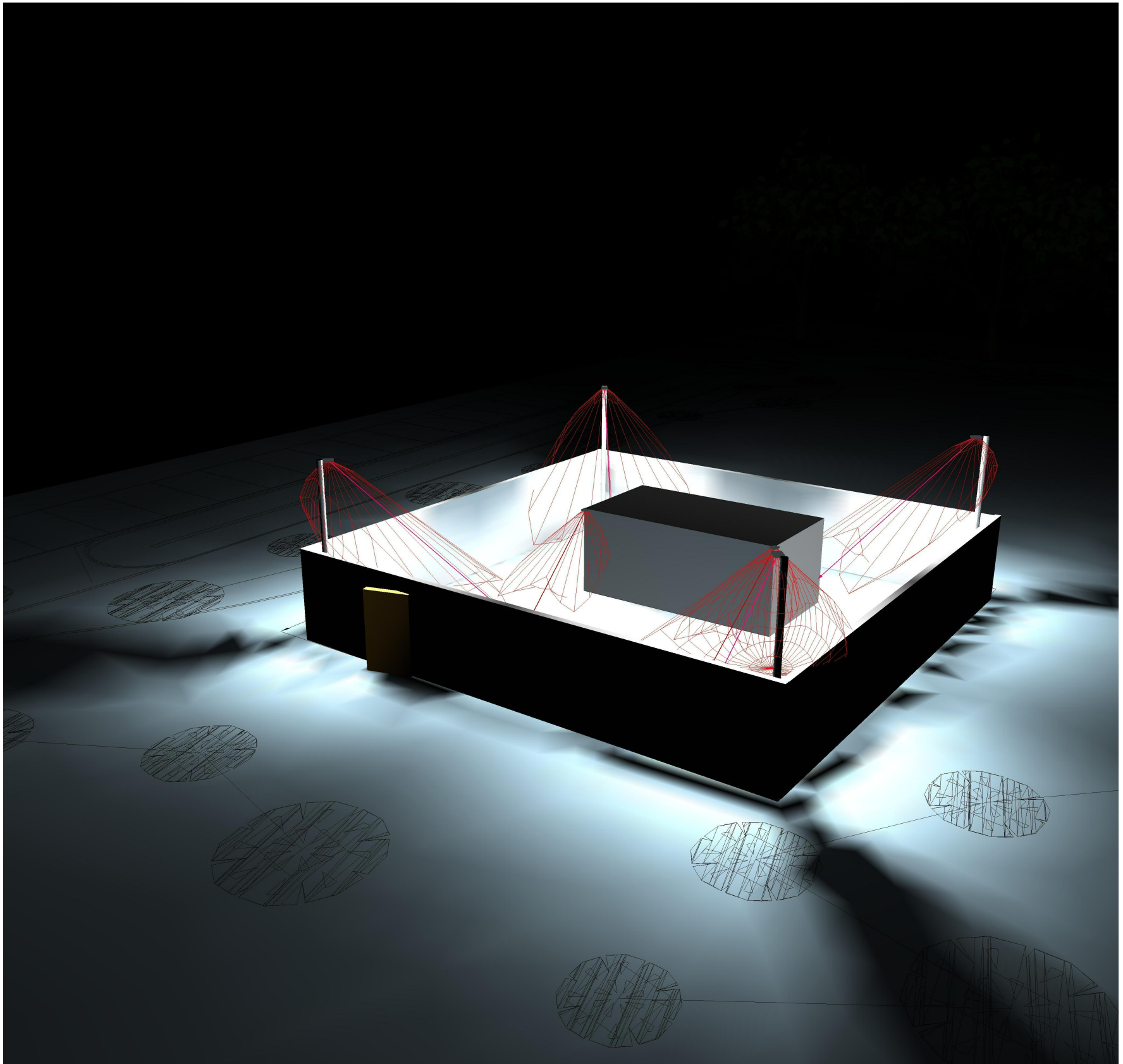
Type No.\Make

BELL Lighting Limited			
4	4 x	Order No.	: 10938
		Luminaire name	: Skyline Cosmos 50W 3000K Asymmetric Floodlight
		Equipment	: 1 x LED 50 W / 6115 lm
5	2 x	Order No.	: 10937
		Luminaire name	: Skyline Cosmos 30W 3000K Asymmetric Floodlight
		Equipment	: 1 x LED 29 W / 3322 lm

2 Exterior 1

2.3 Calculation results, Exterior 1

2.3.1 3D luminance, View 1



2.3 Calculation results, Exterior 1

2.3.2 3D luminance, View from the back



2.3 Calculation results, Exterior 1

2.3.3 3D luminance, View 5

