

External Lighting

Installation : MVT Centre Barnsley

Project number : Exxxx

Customer : Nu Construction

Processed by : RMc

Date : 12.10.2022

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 ANSELL, FLOODLIGHTING - Aztec LED ... (AAZLED100/ASY)

1.1.1 Data sheet

Manufacturer: ANSELL



AAZLED100/ASY **Rectangular projector** **FLOODLIGHTING - Aztec LED Asymmetric Floodlight**
AAZLED100/ASY
FLOODLIGHTING
Aztec LED Asymmetric Floodlight
LED 100W - Cool White

Supplied c/w Integral Driver

- High performance die-cast aluminium LED floodlight
- High output, high efficiency asymmetric lens technology for anti-light pollution
- Pre-installed breathable gland prevents condensation
- High specification IP66, IK08 ratings
- 60x120° beam angle
- 100W exceeds performance of 150W HQI-TS
- Pre-wired with 1.5 metre of rubber insulated cable for ease of installation
- LED lifespan L80 B10 54,000 hours
- Non-dimmable

Option
/PIR

Operating Temp -30°C to 50°C

- Suitable for external use
- 5 Year Product Warranty
- IP66

Luminaire data

Absolute Photometry

Luminaire efficacy : 142.65 lm/W
Classification : A40 ↓100.0% ↑0.0%
CIE Flux Codes : 43 88 99 100 100
UGR 4H 8H : 37.9 / 32.3
Control gear : Electronic ballast
Power : 100 W
Luminous flux : 14265 lm

Dimensions : 202 mm x 120 mm x 1 mm

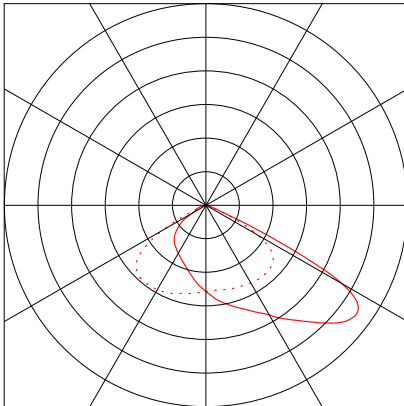
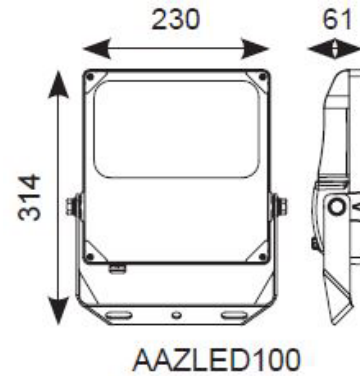
Equipped with

Quantity : 1
Designation : LED single 840
Colour : 4000K
Socket : --
Colour reproduction : --

1 Luminaire data

1.1 ANSELL, FLOODLIGHTING - Aztec LED ... (AAZLED100/ASY)

1.1.1 Data sheet



1 Luminaire data

1.2 ANSELL, DISPLAY - Freska LED Downlight (AFRLED125/CW)

1.2.1 Data sheet

Manufacturer: ANSELL



AFRLED125/CW ceiling recessed mount fixed LED downlight **DISPLAY - Freska LED Downlight**
AFRLED125/CW
DISPLAY
Freska LED Downlight
LED 10W - Cool White

Supplied c/w Remote Driver

- Economic ultra-slim circular LED downlight
- Ideal for use in areas with shallow ceiling void
- Remote driver with plug and play connection
- Edge lit providing excellent uniform illumination
- 10W comparable performance to 13W PLC 13W comparable performance to 18W PLC 19W comparable performance to 26W PLC
- LED lifespan L70 30,000 hours
- Non-dimmable
- Optional plug-in self-test emergency pack suitable for all three models

Option
AFRLED/M3/ST Self-Test Emergency Pack

Accessory
ASBP/12 7.2V 3000mAh Ni-cd Replacement Battery

- Suitable for internal use only
- 2 Year Product Warranty
- IP44

Luminaire data

Absolute Photometry
Luminaire efficacy : 91.94 lm/W
Classification : A40 ↓100.0% ↑0.0%
CIE Flux Codes : 47 79 96 100 100
UGR 4H 8H : 27.2 / 27.9
Control gear : Electronic ballast
Power : 8.5 W
Luminous flux : 781.5 lm

Dimensions : Ø136 mm x 5 mm

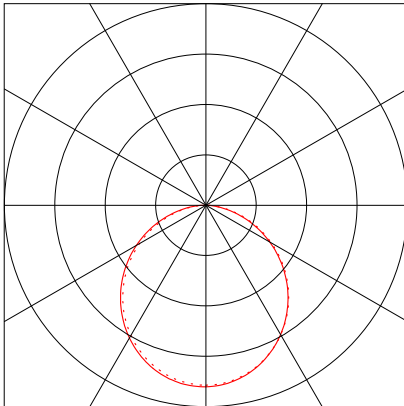
Equipped with

Quantity : 1
Designation : LED
Colour : 840/4000K
Socket : --
Colour reproduction : 1B/80...89

1 Luminaire data

1.2 ANSELL, DISPLAY - Freska LED Downlight (AFRLED125/CW)

1.2.1 Data sheet



Object : External Lighting
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RELUX[®]

2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Luminaire data/Room elements

Product data:

Type No.\Make

		ANSELL	
2	4 x	Order No.	: AAZLED100/ASY
		Luminaire name	: FLOODLIGHTING - Aztec LED Asymmetric Floodlight
		Equipment	: 1 x LED single 840 100 W / 14265 lm
3	4 x	Order No.	: AFRLED125/CW
		Luminaire name	: DISPLAY - Freska LED Downlight
		Equipment	: 1 x LED 8.5 W / 781.5 lm

2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Luminaire data/Room elements

Floor with luminaire and sensor positions:



No.	Centre point			Rotation angle			Target coordinates		
	X [m]	Y [m]	Z [m]	Z [°]	C0 [°]	C90 [°]	Xa [m]	Ya [m]	Za [m]
ANSELL DISPLAY - Freska LED Downlight AFRLED125/CW									
5	60.81	49.51	3.00	0.00	0.00	0.00	60.81	49.51	0.00
6	62.00	49.51	3.00	0.00	0.00	0.00	62.00	49.51	0.00
7	63.20	49.51	3.00	0.00	0.00	0.00	63.20	49.51	0.00
8	64.39	49.51	3.00	0.00	0.00	0.00	64.39	49.51	0.00

			Position			Rotation		
			x[m]	y[m]	z[m]	za	xa	ya
ANSELL FLOODLIGHTING - Aztec LED Asymmetric Floodlight AAZLED100/ASY								
1			39.93	66.90	8.00	90.0°	-0.6°	7.9°
Orientation			Target coordinates				Rotation	
1AAZLED100/ASY			40.64	75.22	0.00	90.0°	-0.6°	7.9°
2			54.93	66.90	8.00	90.0°	0.0°	7.6°
Orientation			Target coordinates				Rotation	
1AAZLED100/ASY			55.53	75.33	0.00	90.0°	0.0°	7.6°
3			54.93	50.02	8.00	270.1°	0.0°	2.3°
Orientation			Target coordinates				Rotation	
1AAZLED100/ASY			54.95	39.83	0.00	270.1°	0.0°	2.3°
4			39.93	50.04	8.00	270.0°	-0.1°	-1.4°
Orientation			Target coordinates				Rotation	
1AAZLED100/ASY			39.05	38.44	0.00	270.0°	-0.1°	-1.4°

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2 Exterior 1

2.1 Description, Exterior 1

2.1.1 Luminaire data/Room elements

Structural elements

Measuring surface

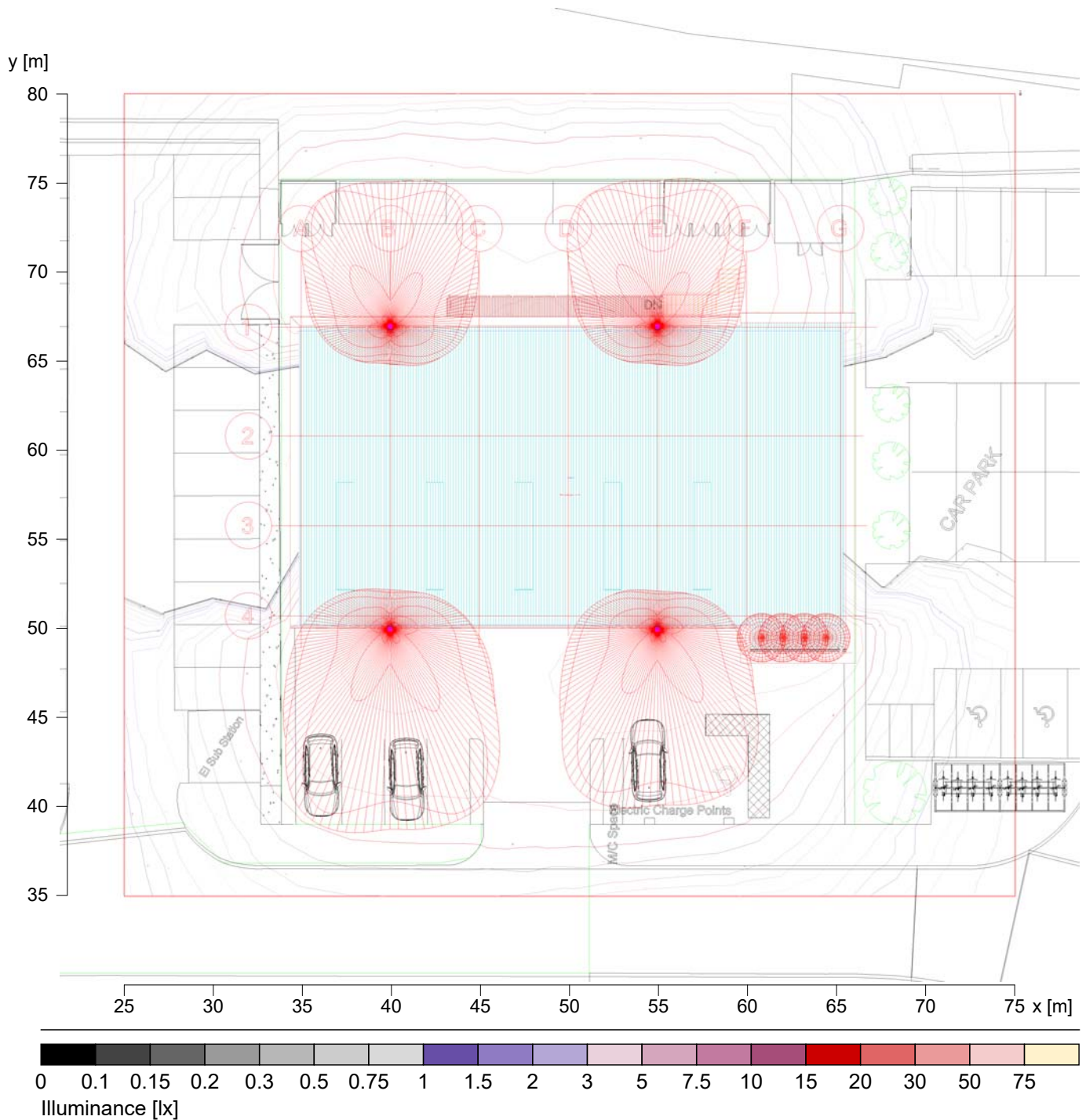
No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle	
							L axis	Q axis
Ref. plane 1.1	25.00	35.00	0.00	50.00	45.00	0.00	0.00	0.00

Others

No.	xm[m]	ym[m]	zm[m]	Length	Width	z axis	Rotation angle		rho[%]
							L axis	Q axis	
A 1	34.83	50.22	0.00	30.48	16.47	0.00	0.00	0.00	50

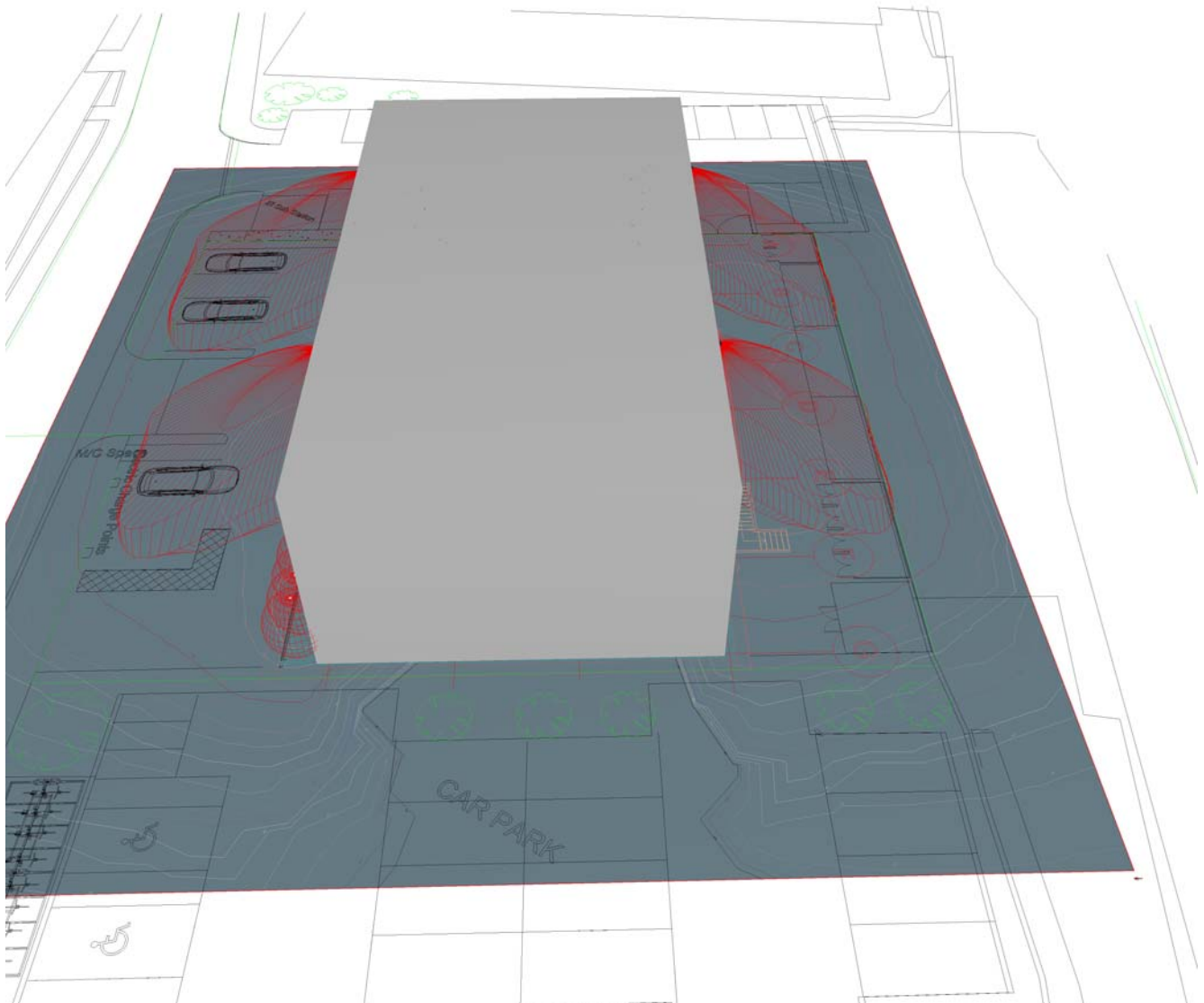
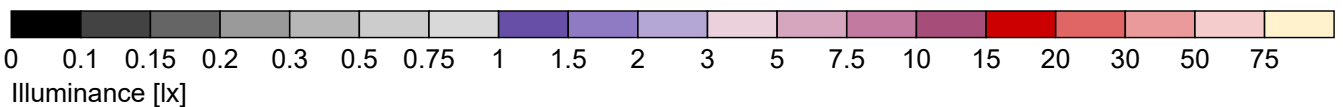
2.1 Description, Exterior 1

2.1.2 Floor plan



2.1 Description, Exterior 1

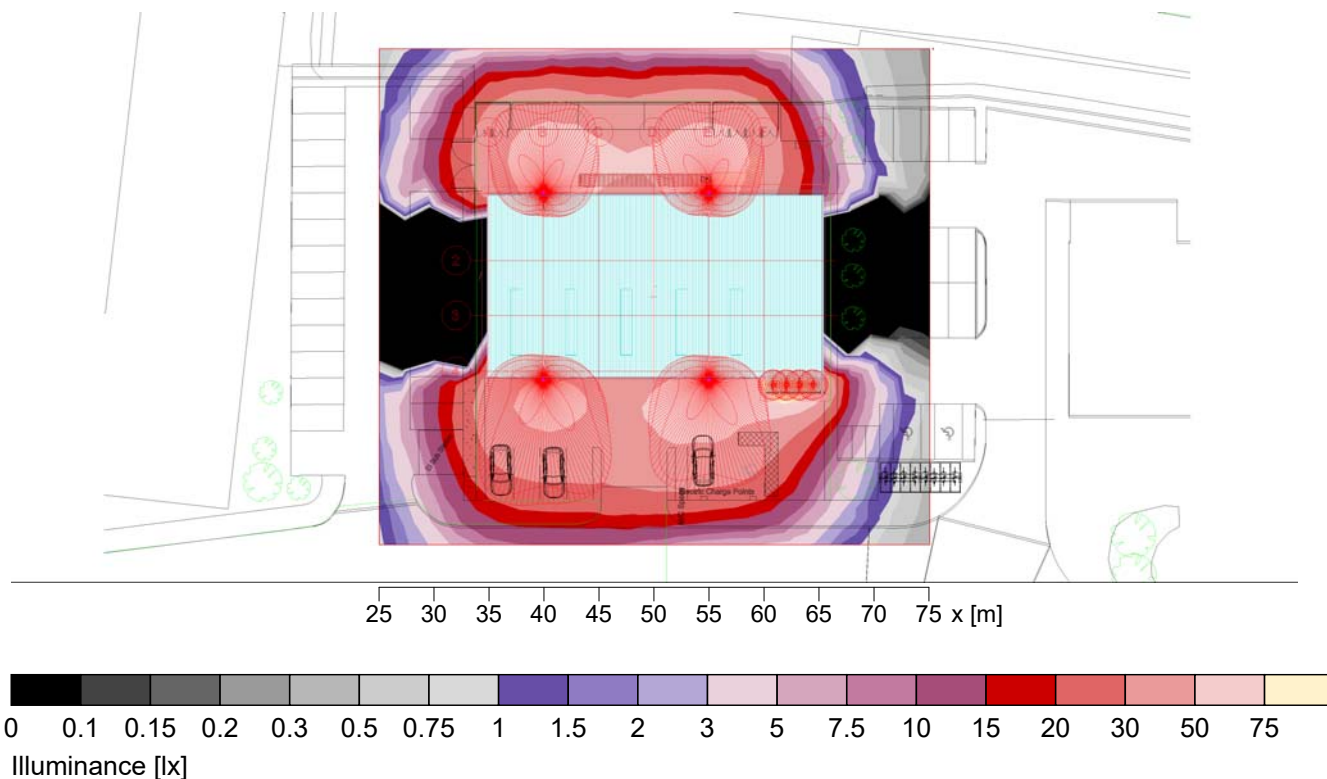
2.1.3 3D view, View 1



2 Exterior 1

2.2 Summary, Exterior 1

2.2.1 Result overview, Evaluation area 1



General

Calculation algorithm used
 Maintenance factor

Average indirect fraction
 0.80

Total luminous flux of all lamps
 Total power
 Total power per area (2250.00 m²)

60186.00 lm
 434.0 W
 0.19 W/m² (1.05 W/m²/100lx)

Evaluation area 1

Reference plane 1.1

Horizontal
 Em 18.3 lx
 Emin 0 lx
 Emin/Em (Uo) ---
 Emin/Emax (Ud) ---
 Position 0.00 m

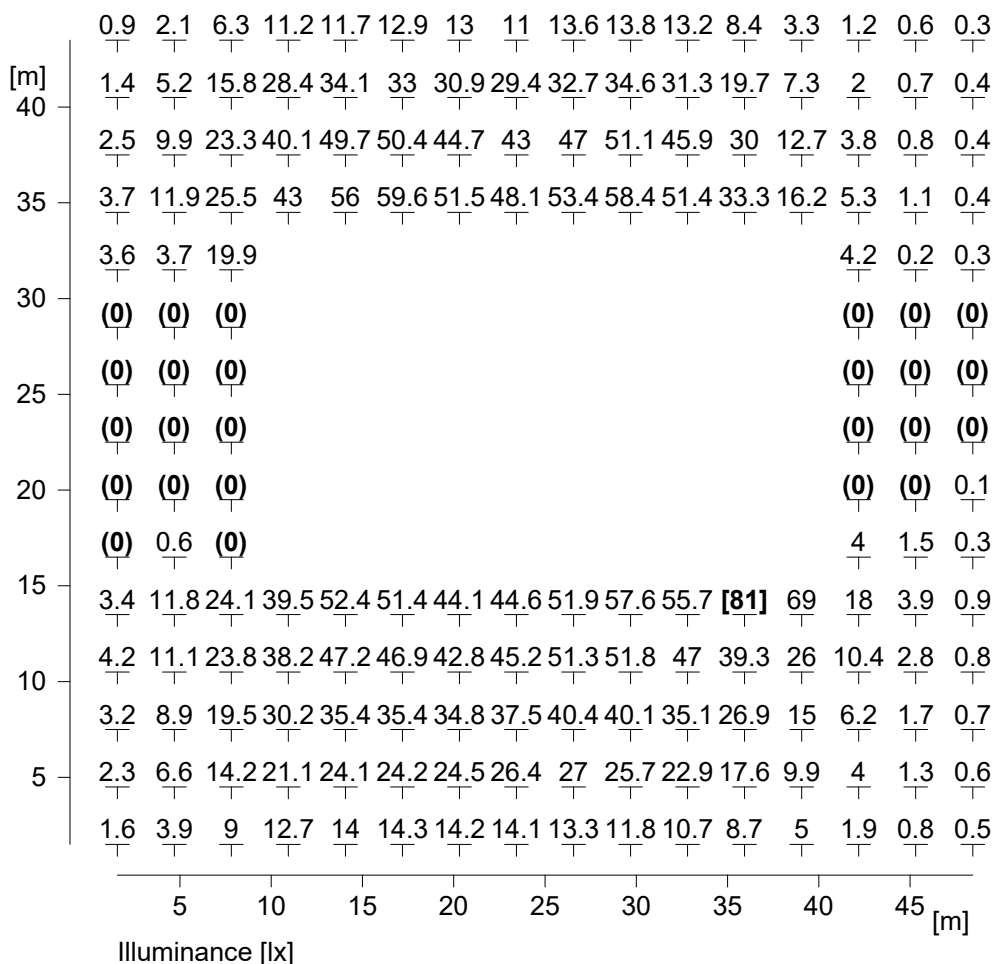
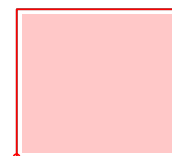
Type No.\Make

2	4 x	ANSELL	
		Order No.	: AAZLED100/ASY
		Luminaire name	: FLOODLIGHTING - Aztec LED Asymmetric Floodlight
		Equipment	: 1 x LED single 840 100 W / 14265 lm
3	4 x	Order No.	: AFRLED125/CW
		Luminaire name	: DISPLAY - Freska LED Downlight
		Equipment	: 1 x LED 8.5 W / 781.5 lm

2 Exterior 1

2.3 Calculation results, Exterior 1

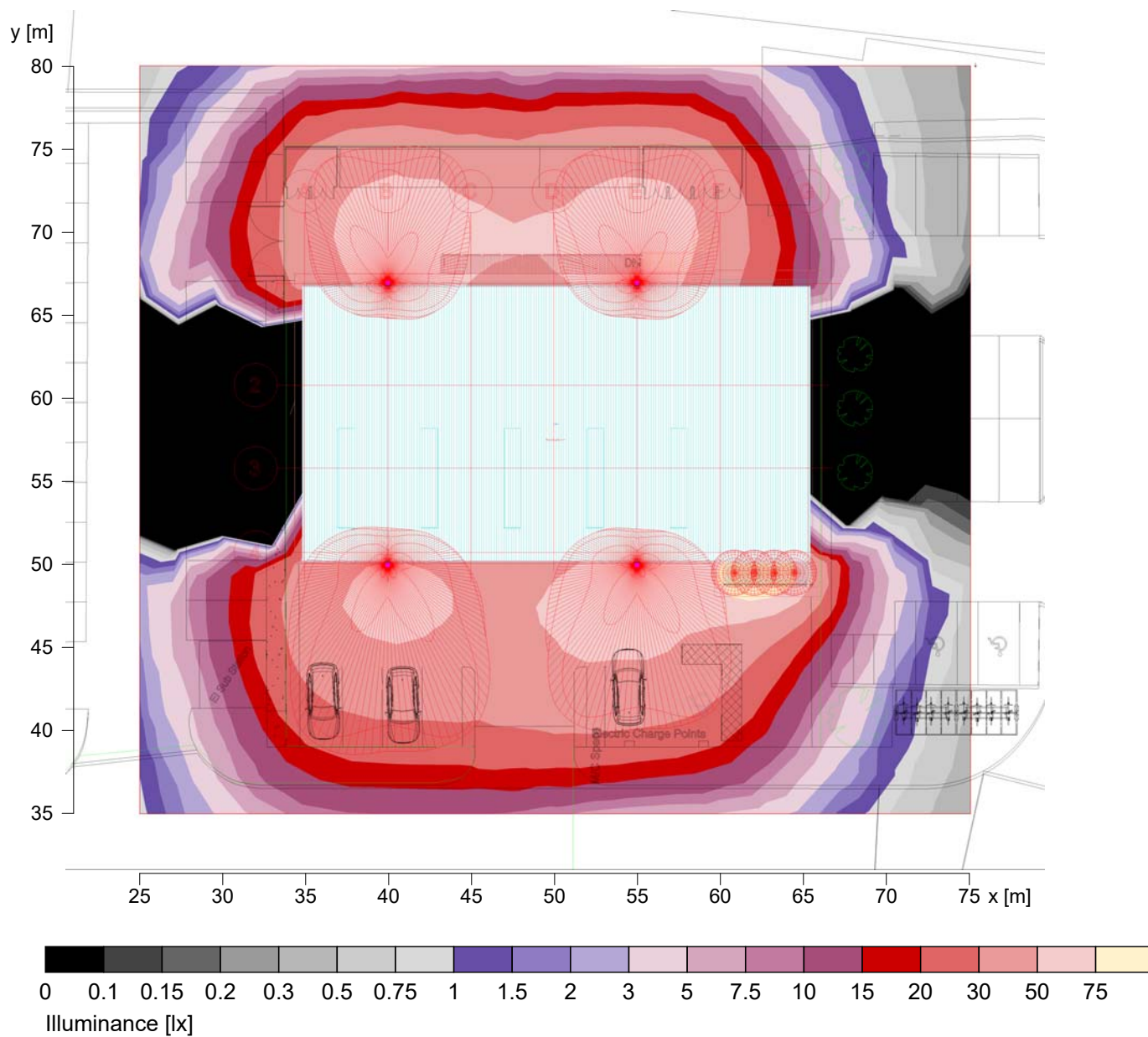
2.3.1 Table, Reference plane 1.1 (E)



Height reference plane	: 0.00 m
Average illuminance	Em : 18.3 lx
Minimum illuminance	Emin : 0 lx
Maximum illuminance	Emax : 81 lx
Uniformity Uo	Emin/Em : ---
Diversity Ud	Emin/Emax : ---

2.3 Calculation results, Exterior 1

2.3.2 Pseudo colours, Reference plane 1.1 (E)



Height reference plane	: 0.00 m
Average illuminance	Em : 18.3 lx
Minimum illuminance	Emin : 0 lx
Maximum illuminance	Emax : 81 lx
Uniformity Uo	Emin/Em : ---
Diversity Ud	Emin/Emax : ---

2.3 Calculation results, Exterior 1

2.3.3 3D luminance, View 1

