



## The Dell Pakenham

Installation : Proposed New Lighting

Project number : QUO-72480-W7N4Z7

Customer : 3Line Electrical Wholesale Ltd

Processed by : Ben Fok

Date : 24.11.2022

Project description:

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

Calculation based on Maintenance Factor 0.8.

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

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

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, AMENITY - Reef LED CCT Bi... (AREELEDWL - CW)

### 1.1.1 Data sheet

Manufacturer: ANSELL



**AREELEDWL - CW Bi-Directional Wall Light**     **AMENITY - Reef LED CCT Bi-directional Wall Light**

AREELEDWL

AMENITY

Reef LED CCT Bi-directional Wall Light

Supplied c/w Integral Driver

- Durable outdoor bidirectional wall light
- Polycarbonate construction ideal for coastal applications
- Unique lockable installation base plate with push fit loop-in loopout terminal for ease of installation
- PIR option available
- CCT selectable between 3000K, 4000K and 6000K
- LED lifespan L80 54,000 hours
- Non-dimmable

- Suitable for both internal and external use
- 3 Year Product Warranty
- IP65

#### Luminaire data

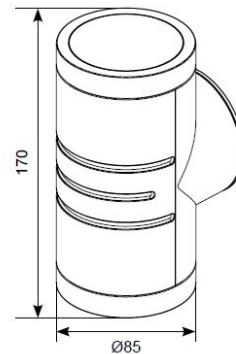
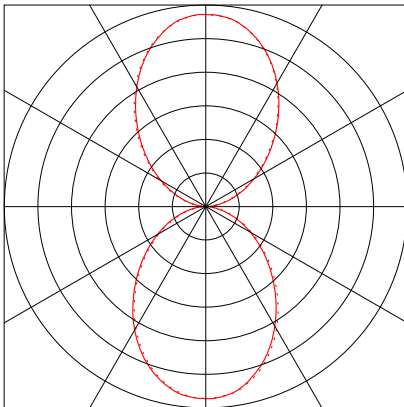
Absolute Photometry

Luminaire efficacy : 82.7 lm/W  
Classification : C43 ↓50.0% ↑50.0%  
CIE Flux Codes : 54 83 97 50 100  
UGR 4H 8H : 14.9 / 15.2  
Control gear : Electronic ballast  
Power : 10 W  
Luminous flux : 827 lm

#### Equipped with

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

Dimensions : Ø85 mm x 170 mm



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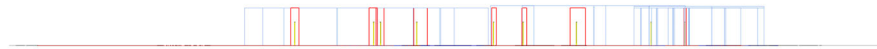
## 2 Exterior 1

### 2.1 Description, Exterior 1

#### 2.1.1 Floor plan

y [m]

1.75   
0.00 



0 10 20 30 40 50 60 x [m]

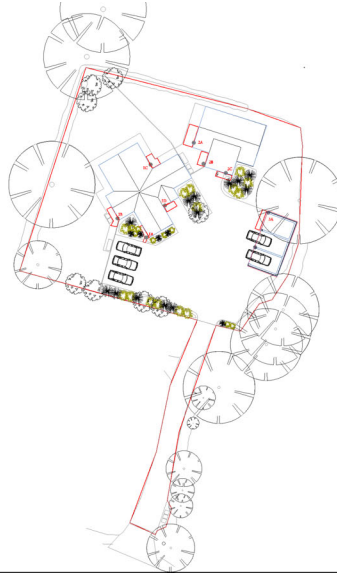
Object : The Dell Pakenham  
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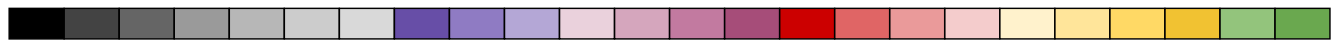
## 2 Exterior 1

### 2.2 Summary, Exterior 1

#### 2.2.1 Result overview, Vertical 1A



0 10 20 30 40 50 60 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500  
 Illuminance [lx]

#### General

Calculation algorithm used	Average indirect fraction
Height (phot. centre) [m]:	1.50 m
Maintenance factor	0.80

Total luminous flux	7443 lm
Total power	90 W
Total power per area (1599.73 m <sup>2</sup> )	0.06 W/m <sup>2</sup>

#### Illuminance

Average illuminance	Em	79 lx
Minimum illuminance	Emin	0 lx
Maximum illuminance	Emax	1050 lx
Uniformity U <sub>o</sub>	Emin/Em	1:221 (0)
Diversity U <sub>d</sub>	Emin/Emax	1:2950 (0)

#### Type No. Make

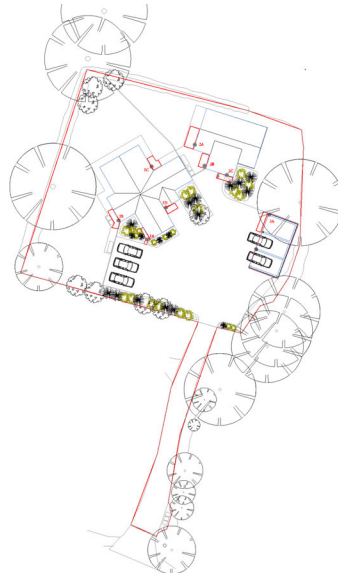
1	9 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022

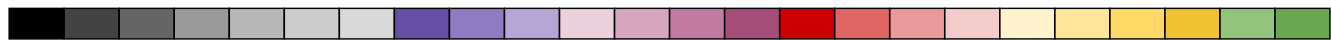


## 2.2 Summary, Exterior 1

### 2.2.2 Result overview, Vertical 1B



0 10 20 30 40 50 60 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500  
 Illuminance [lx]

#### General

Calculation algorithm used	Average indirect fraction
Height (phot centre) [m]:	1.50 m
Maintenance factor	0.80

Total luminous flux	7443 lm
Total power	90 W
Total power per area (1599.73 m <sup>2</sup> )	0.06 W/m <sup>2</sup>

#### Illuminance

Average illuminance	Em	53 lx
Minimum illuminance	Emin	1 lx
Maximum illuminance	Emax	591 lx
Uniformity U <sub>o</sub>	Emin/Em	1:65.8 (0.02)
Diversity U <sub>d</sub>	Emin/Emax	1:734 (0)

#### Type No. Make

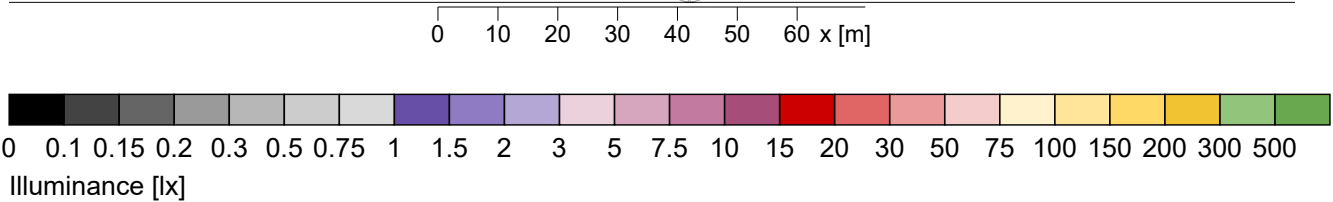
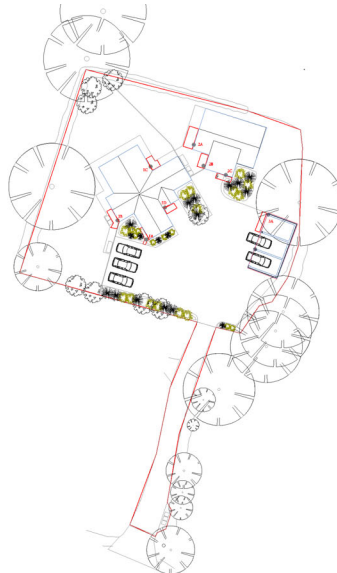
1	9 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
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## 2.2 Summary, Exterior 1

### 2.2.3 Result overview, Vertical 1C



#### General


Calculation algorithm used	Average indirect fraction
Height (phot. centre) [m]:	1.50 m
Maintenance factor	0.80

Total luminous flux	7443 lm
Total power	90 W
Total power per area (1599.73 m <sup>2</sup> )	0.06 W/m <sup>2</sup>

#### Illuminance

Average illuminance	Em	63 lx
Minimum illuminance	Emin	3 lx
Maximum illuminance	Emax	792 lx
Uniformity U <sub>o</sub>	Emin/Em	1:24.1 (0.04)
Diversity U <sub>d</sub>	Emin/Emax	1:303 (0)

#### Type No. Make

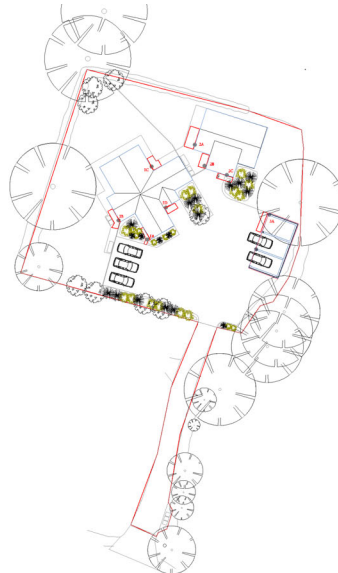
1	9 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
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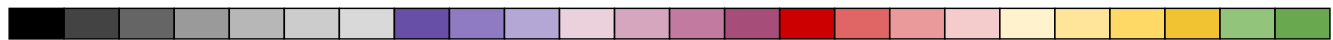


## 2.2 Summary, Exterior 1

### 2.2.4 Result overview, Vertical 1D



0 10 20 30 40 50 60 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500  
 Illuminance [lx]

#### General


Calculation algorithm used	Average indirect fraction
Height (phot. centre) [m]:	1.50 m
Maintenance factor	0.80

Total luminous flux	7443 lm
Total power	90 W
Total power per area (1599.73 m²)	0.06 W/m²

#### Illuminance

Average illuminance	Em	56 lx
Minimum illuminance	Emin	4 lx
Maximum illuminance	Emax	571 lx
Uniformity Uo	Emin/Em	1:15.7 (0.06)
Diversity Ud	Emin/Emax	1:161 (0.01)

#### Type No. Make

1	9 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

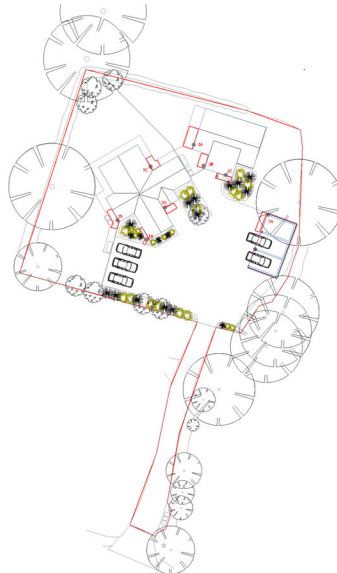


Object : The Dell Pakenham  
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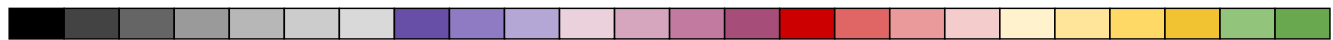


## 2.2 Summary, Exterior 1

### 2.2.5 Result overview, Vertical 2A



0 10 20 30 40 50 60 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500  
 Illuminance [lx]

#### General

Calculation algorithm used	Average indirect fraction
Height (phot. centre) [m]:	1.50 m
Maintenance factor	0.80

Total luminous flux	7443 lm
Total power	90 W
Total power per area (1599.73 m <sup>2</sup> )	0.06 W/m <sup>2</sup>

#### Illuminance

Average illuminance	Em	55 lx
Minimum illuminance	Emin	1 lx
Maximum illuminance	Emax	668 lx
Uniformity U <sub>o</sub>	Emin/Em	1:38.9 (0.03)
Diversity U <sub>d</sub>	Emin/Emax	1:473 (0)

#### Type No. Make

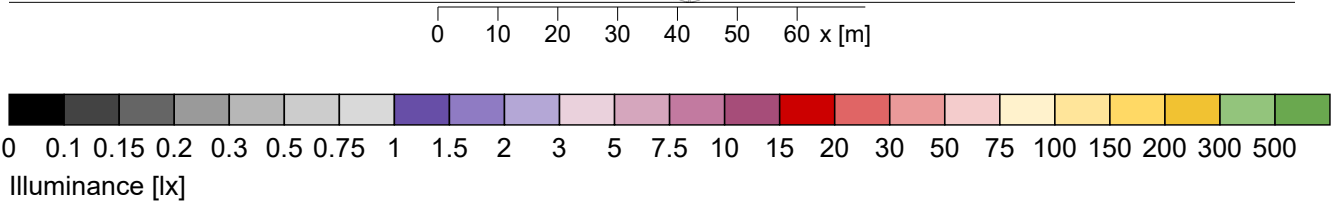
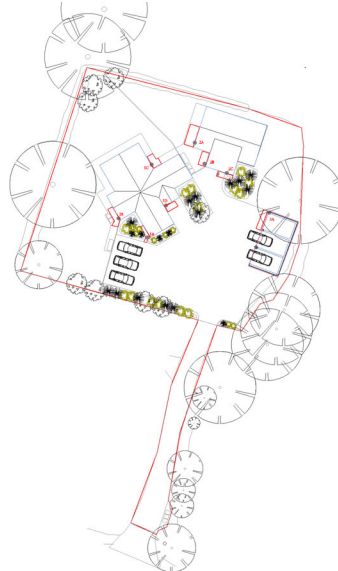
1	9 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
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 Date : 24.11.2022



## 2.2 Summary, Exterior 1

### 2.2.6 Result overview, Vertical 2B



#### General


Calculation algorithm used	Average indirect fraction
Height (phot. centre) [m]:	1.50 m
Maintenance factor	0.80

Total luminous flux	7443 lm
Total power	90 W
Total power per area (1599.73 m <sup>2</sup> )	0.06 W/m <sup>2</sup>

#### Illuminance

Average illuminance	Em	57 lx
Minimum illuminance	Emin	2 lx
Maximum illuminance	E <sub>max</sub>	552 lx
Uniformity U <sub>o</sub>	E <sub>min</sub> /E <sub>m</sub>	1:35.4 (0.03)
Diversity U <sub>d</sub>	E <sub>min</sub> /E <sub>max</sub>	1:344 (0)

#### Type No. Make

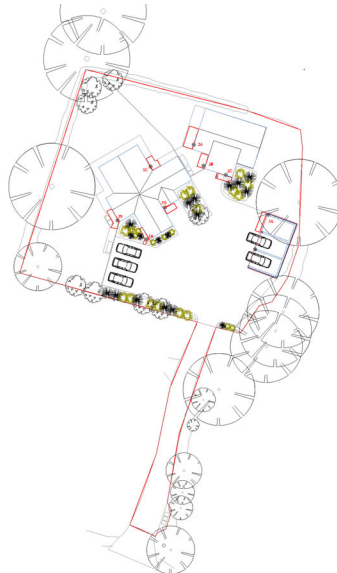
1	9 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

Object : The Dell Pakenham  
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 Project number : QUO-72480-W7N4Z7  
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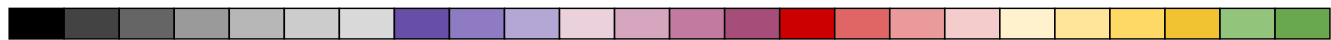


## 2.2 Summary, Exterior 1

### 2.2.7 Result overview, Vertical 2C



0 10 20 30 40 50 60 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500  
 Illuminance [lx]

#### General

Calculation algorithm used	Average indirect fraction
Height (phot. centre) [m]:	1.50 m
Maintenance factor	0.80

Total luminous flux	7443 lm
Total power	90 W
Total power per area (1599.73 m <sup>2</sup> )	0.06 W/m <sup>2</sup>

#### Illuminance

Average illuminance	Em	60 lx
Minimum illuminance	Emin	2 lx
Maximum illuminance	Emax	700 lx
Uniformity U <sub>o</sub>	Emin/Em	1:37.3 (0.03)
Diversity U <sub>d</sub>	Emin/Emax	1:433 (0)

#### Type No. Make

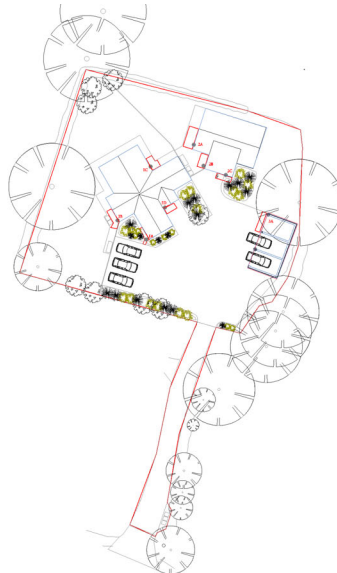
1	9 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

Object : The Dell Pakenham  
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## 2.2 Summary, Exterior 1

### 2.2.8 Result overview, Vertical 3A



0 10 20 30 40 50 60 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500  
 Illuminance [lx]

#### General


Calculation algorithm used	Average indirect fraction
Height (phot. centre) [m]:	1.50 m
Maintenance factor	0.80

Total luminous flux	7443 lm
Total power	90 W
Total power per area (1599.73 m <sup>2</sup> )	0.06 W/m <sup>2</sup>

#### Illuminance

Average illuminance	Em	224 lx
Minimum illuminance	Emin	4 lx
Maximum illuminance	Emax	3040 lx
Uniformity U <sub>o</sub>	Emin/Em	1:58.8 (0.02)
Diversity U <sub>d</sub>	Emin/Emax	1:800 (0)

#### Type No. Make

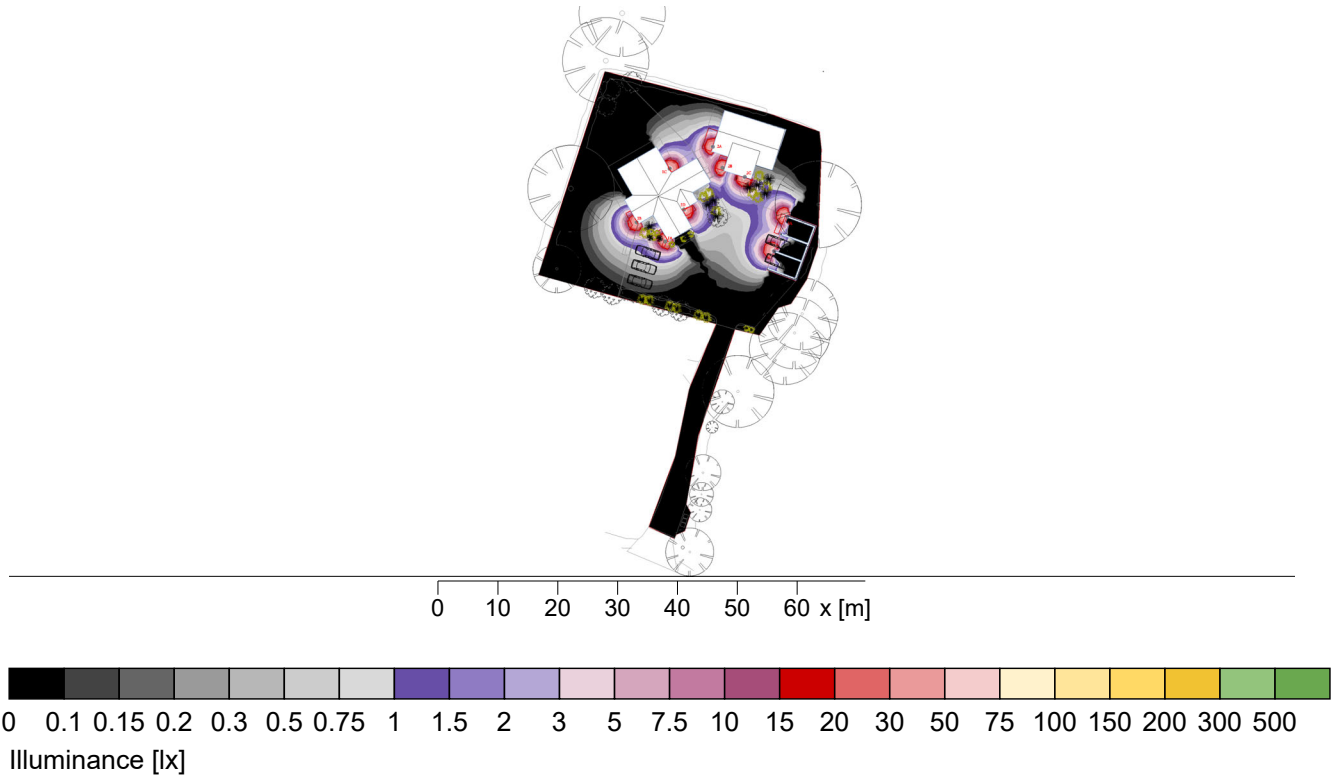
1	9 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

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## 2.2 Summary, Exterior 1

### 2.2.9 Result overview, Evaluation area 1



#### General


Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.50 m
Maintenance factor	0.80
Total luminous flux	7443.00 lm
Total power	90.0 W
Total power per area (1599.73 m <sup>2</sup> )	0.06 W/m <sup>2</sup> (3.82 W/m <sup>2</sup> /100lx)

#### Evaluation area 1

#### Reference plane 1.1

	Horizontal
Em	1.47 lx
Emin	0 lx
Emin/Em (Uo)	---
Emin/Emax (Ud)	---
Position	0.00 m

#### Type No. Make

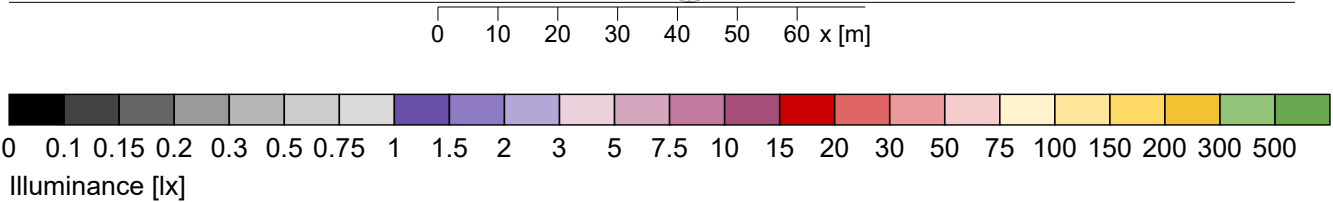
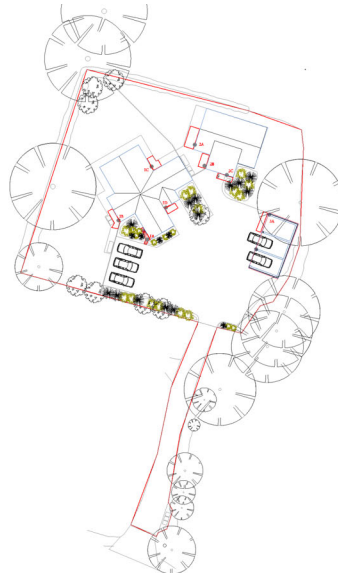
1	9 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

Object : The Dell Pakenham  
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 Date : 24.11.2022



## 2.2 Summary, Exterior 1

### 2.2.10 Result overview, Plot 1A




#### General

Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.50 m
Maintenance factor	0.80
Total luminous flux	827.00 lm
Total power	10.0 W
Total power per area (1.58 m <sup>2</sup> )	6.33 W/m <sup>2</sup> (17.03 W/m <sup>2</sup> /100lx)

#### Plot 1A

<b>Plot 1A</b>	<b>Plot 1A</b>
Em	Horizontal
Em	37.2 lx
Emin	5.8 lx
Emin/Em (U <sub>o</sub> )	0.16
Emin/Emax (U <sub>d</sub> )	0.08
Position	0.00 m

#### Type No. Make

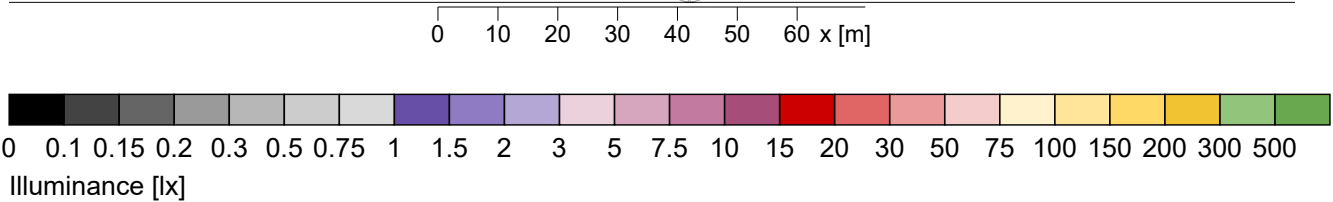
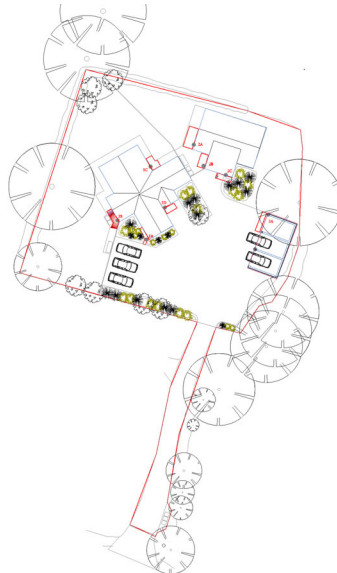
1	1 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

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## 2.2 Summary, Exterior 1

### 2.2.11 Result overview, Plot 1B




#### General

Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.50 m
Maintenance factor	0.80
Total luminous flux	827.00 lm
Total power	10.0 W
Total power per area (3.06 m <sup>2</sup> )	3.27 W/m <sup>2</sup> (10.71 W/m <sup>2</sup> /100lx)

#### Plot 1B

<b>Plot 1B</b>	Horizontal
Em	30.5 lx
Emin	6.4 lx
Emin/Em (Uo)	0.21
Emin/Emax (Ud)	0.10
Position	0.00 m

#### Type No. Make

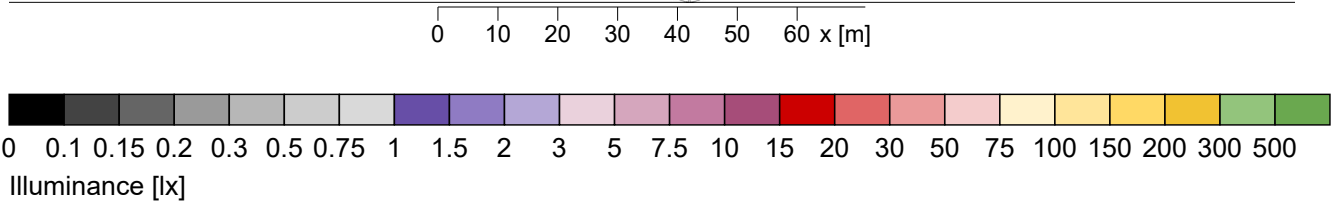
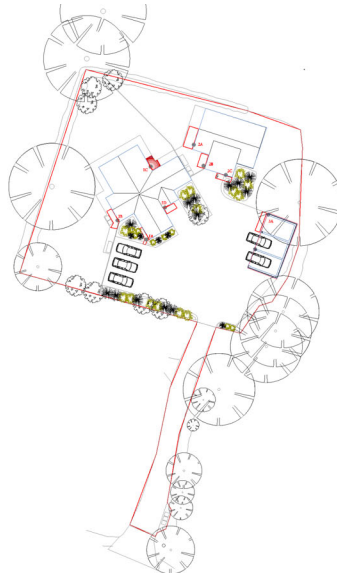
1	1 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.2 Summary, Exterior 1

### 2.2.12 Result overview, Plot 1C



#### General

Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.50 m
Maintenance factor	0.80
Total luminous flux	827.00 lm
Total power	10.0 W
Total power per area (2.88 m <sup>2</sup> )	3.47 W/m <sup>2</sup> (9.65 W/m <sup>2</sup> /100lx)


#### Plot 1C

Em  
 Emin  
 Emin/Em (Uo)  
 Emin/Emax (Ud)  
 Position

#### Plot 1C

Horizontal  
 36 lx  
 12.8 lx  
 0.36  
 0.19  
 0.00 m

#### Type No. Make

1	1 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

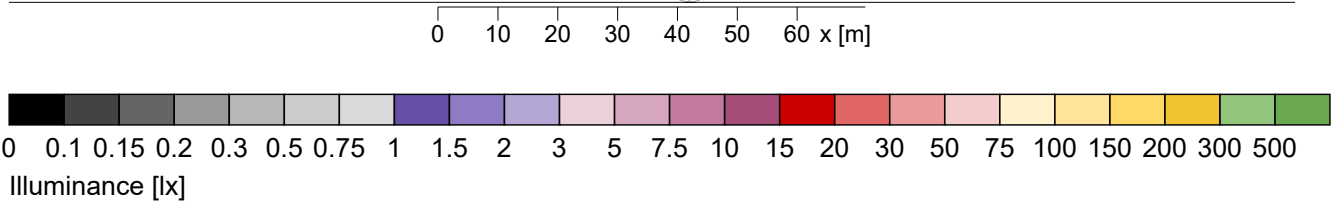
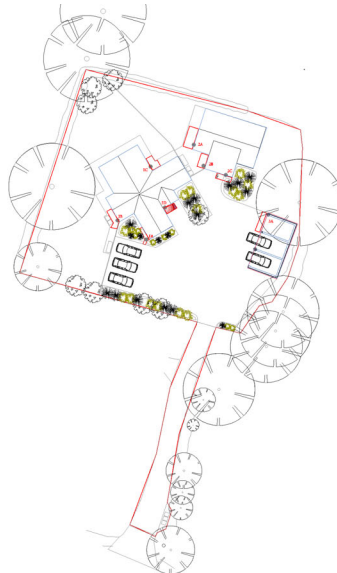


Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.2 Summary, Exterior 1

### 2.2.13 Result overview, Plot 1D




#### General

Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.50 m
Maintenance factor	0.80
Total luminous flux	827.00 lm
Total power	10.0 W
Total power per area (1.91 m <sup>2</sup> )	5.23 W/m <sup>2</sup> (14.91 W/m <sup>2</sup> /100lx)

<b>Plot 1D</b>	<b>Plot 1D</b>
	Horizontal
Em	35.1 lx
Emin	11.5 lx
Emin/Em (Uo)	0.33
Emin/Emax (Ud)	0.15
Position	0.00 m

#### Type No. Make

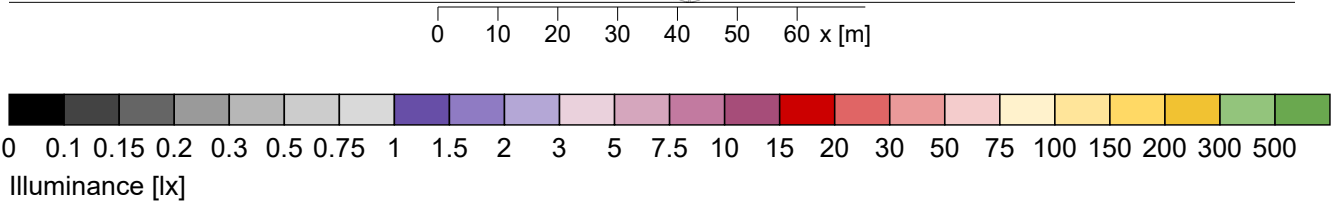
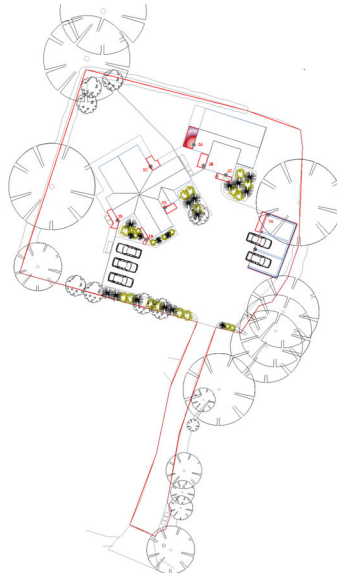
1	1 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.2 Summary, Exterior 1

### 2.2.14 Result overview, Plot 2A




#### General

Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.50 m
Maintenance factor	0.80
Total luminous flux	827.00 lm
Total power	10.0 W
Total power per area (5.64 m <sup>2</sup> )	1.77 W/m <sup>2</sup> (9.21 W/m <sup>2</sup> /100lx)

<b>Plot 2A</b>	<b>Plot 2A</b>
	Horizontal
Em	19.3 lx
Emin	1.8 lx
Emin/Em (Uo)	0.09
Emin/Emax (Ud)	0.03
Position	0.00 m

#### Type No. Make

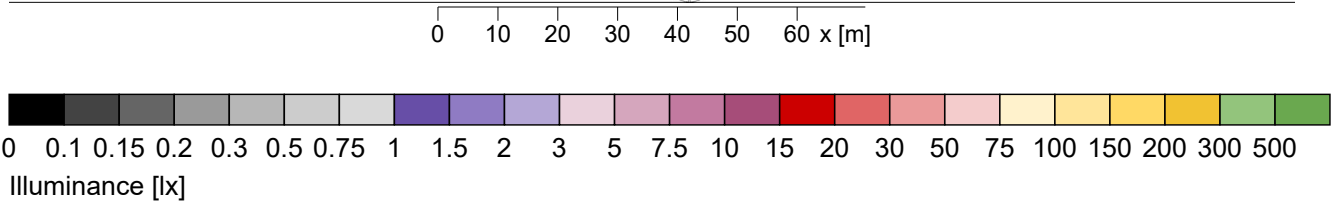
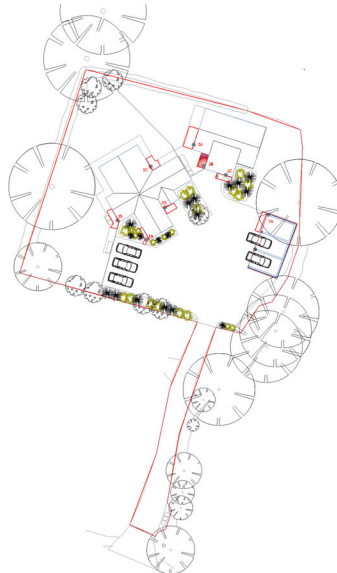
1	1 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.2 Summary, Exterior 1

### 2.2.15 Result overview, Plot 2B




#### General

Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.50 m
Maintenance factor	0.80
Total luminous flux	827.00 lm
Total power	10.0 W
Total power per area (2.88 m <sup>2</sup> )	3.47 W/m <sup>2</sup> (11.42 W/m <sup>2</sup> /100lx)

Plot 2B	Plot 2B
	Horizontal
Em	30.4 lx
Emin	8.4 lx
Emin/Em (Uo)	0.28
Emin/Emax (Ud)	0.12
Position	0.00 m

#### Type No. Make

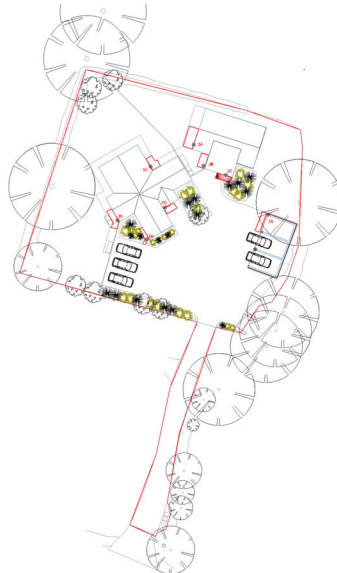
1	1 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.2 Summary, Exterior 1

### 2.2.16 Result overview, Plot 2C



0 10 20 30 40 50 60 x [m]



0 0.1 0.15 0.2 0.3 0.5 0.75 1 1.5 2 3 5 7.5 10 15 20 30 50 75 100 150 200 300 500  
 Illuminance [lx]

#### General


Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.50 m
Maintenance factor	0.80
Total luminous flux	827.00 lm
Total power	10.0 W
Total power per area (2.34 m <sup>2</sup> )	4.28 W/m <sup>2</sup> (11.16 W/m <sup>2</sup> /100lx)

#### Plot 2C

#### Plot 2C

	Horizontal
Em	38.3 lx
Emin	12.2 lx
Emin/Em (Uo)	0.32
Emin/Emax (Ud)	0.18
Position	0.00 m

#### Type No. Make

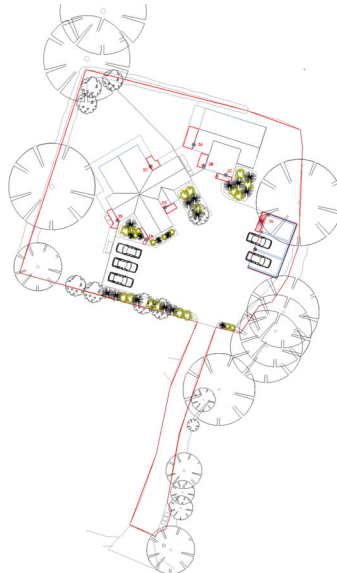
1	1 x	<b>ANSELL</b>	
		Order No.	: AREELEDWL - CW
		Luminaire name	: AMENITY - Reef LED CCT Bi-directional Wall Light
		Equipment	: 1 x LED single 840 10 W / 827 lm

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022

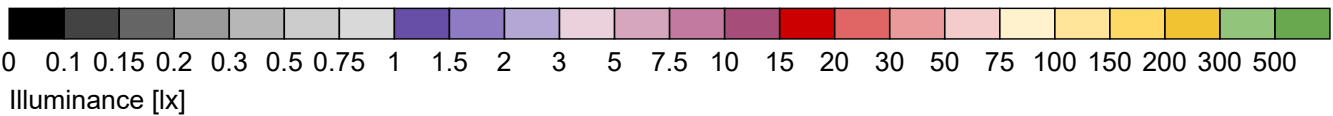


## 2.2 Summary, Exterior 1

### 2.2.17 Result overview, Plot 3A



0 10 20 30 40 50 60 x [m]



#### General

Calculation algorithm used	Average indirect fraction
Height (phot. centre)	1.50 m
Maintenance factor	0.80

#### Plot 3A

	<b>Plot 3A</b>
	Horizontal
Em	22.9 lx
Emin	2.9 lx
Emin/Em (Uo)	0.13
Emin/Emax (Ud)	0.03
Position	0.00 m

#### Type No.\Make

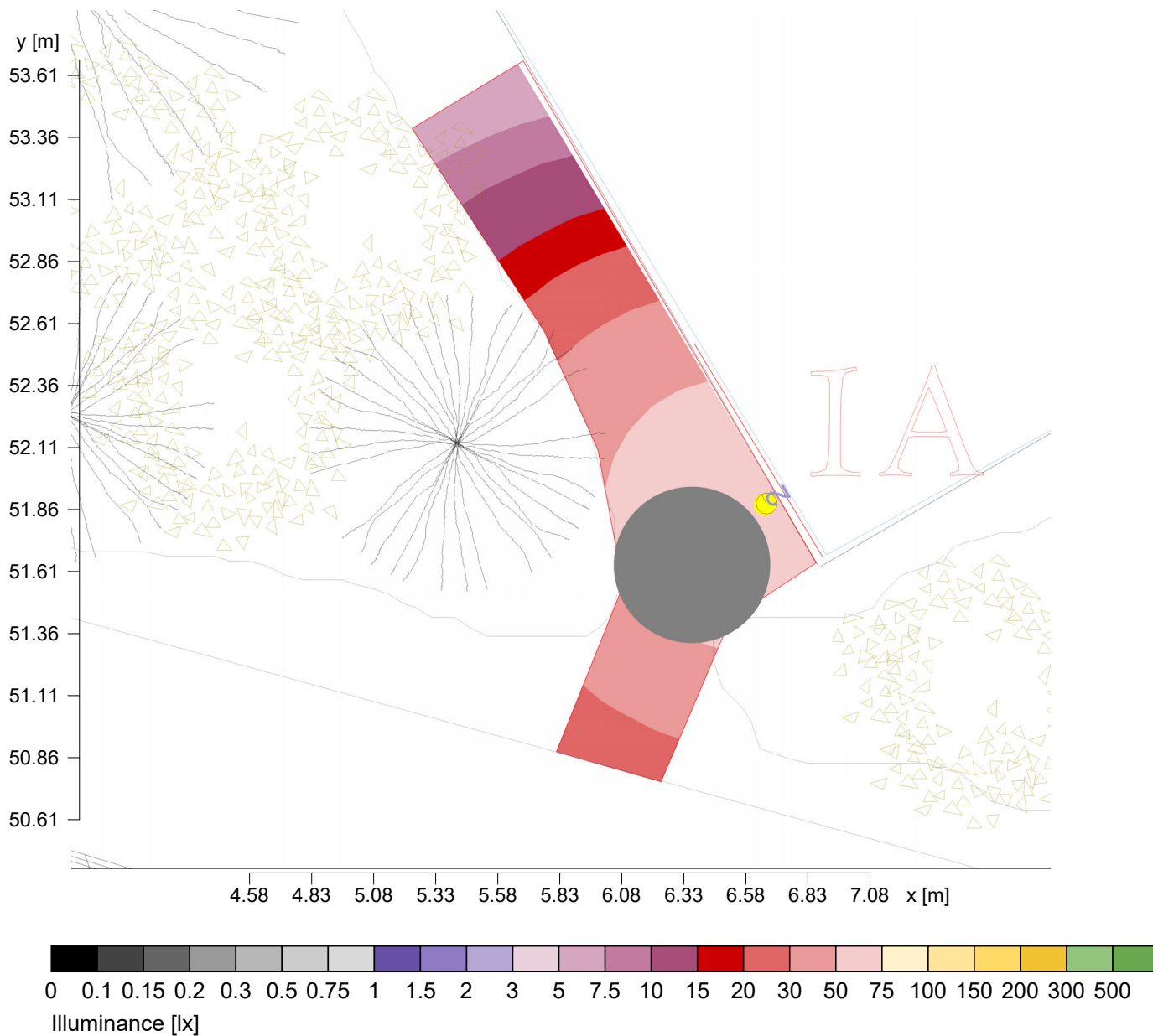
Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2 Exterior 1

### 2.3 Calculation results, Exterior 1

#### 2.3.1 Pseudo colours, Plot 1A (E)



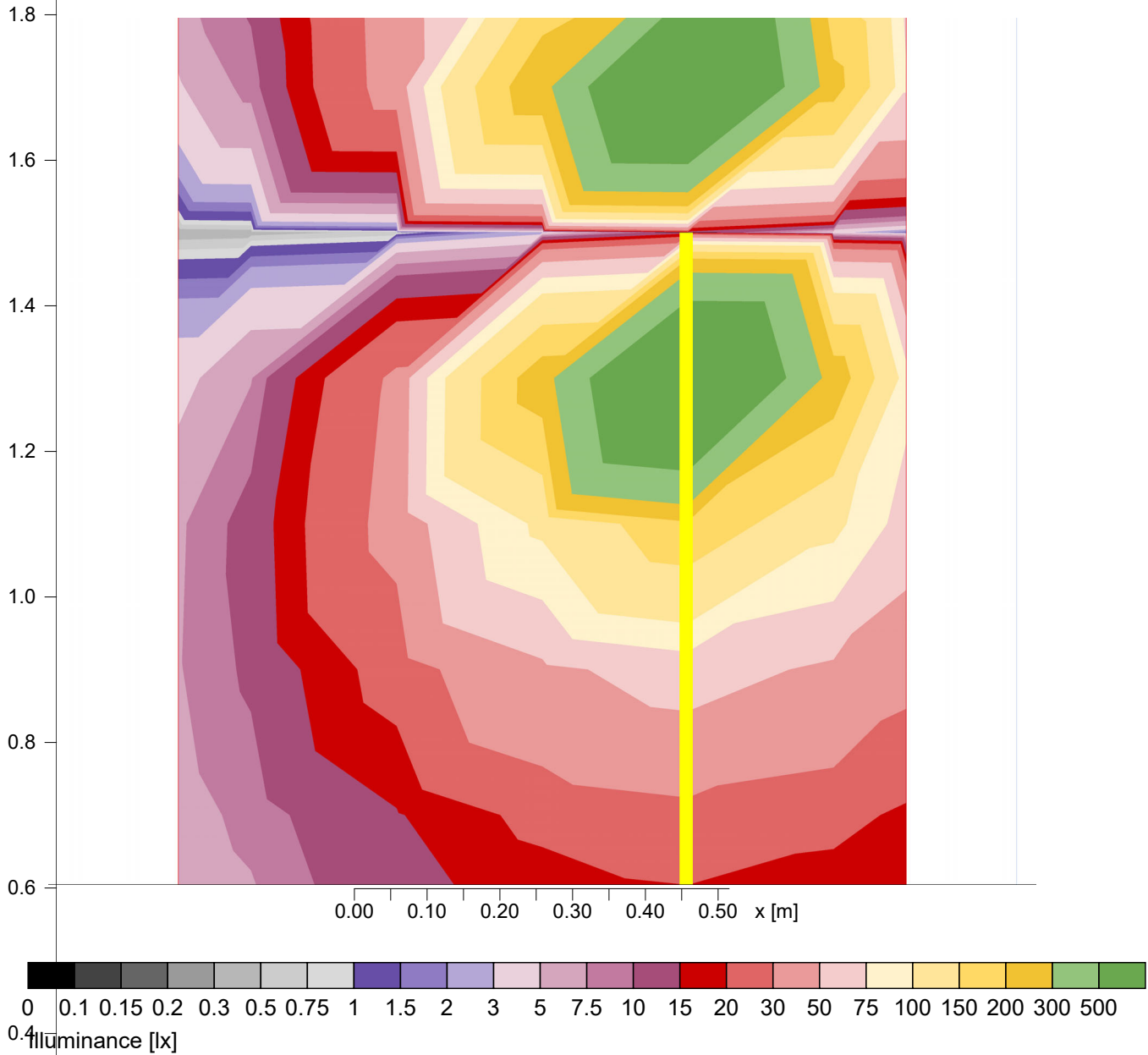
Height reference plane		: 0.00 m
Average illuminance	Em	: 37.2 lx
Minimum illuminance	Emin	: 5.8 lx
Maximum illuminance	Emax	: 69.8 lx
Uniformity Uo	Emin/Em	: 1 : 6.36 (0.16)
Diversity Ud	Emin/Emax	: 1 : 11.96 (0.08)

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.2 Pseudo colours, Vertical 1A (E)



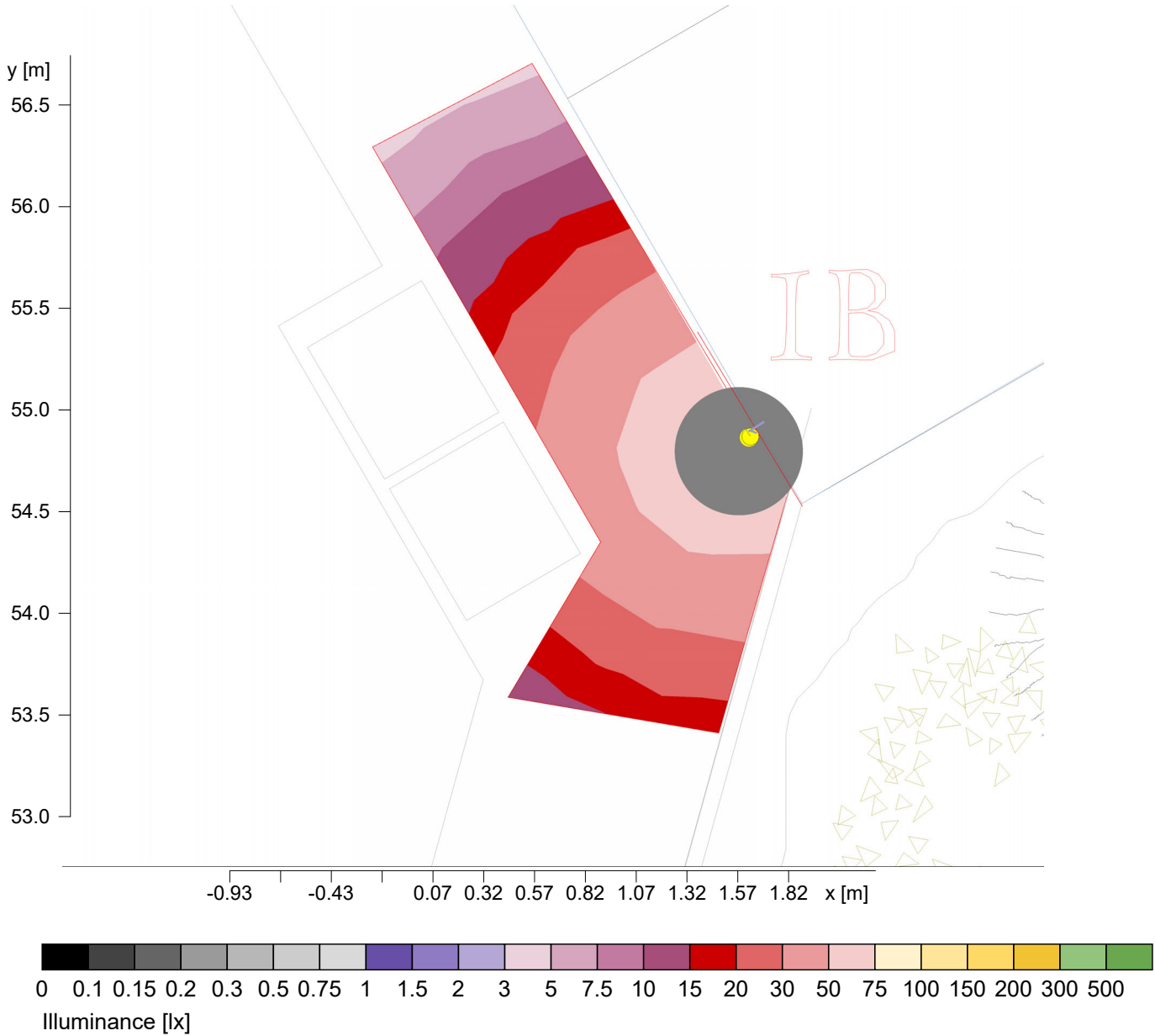
Average illuminance	Em	: 79 lx
Minimum illuminance	Emin	: 0 lx
Maximum illuminance	Emax	: 1050 lx
Uniformity Uo	Emin/Em	: 1 : 220.85 (0.00)
Diversity Ud	Emin/Emax	: 1 : 2954.76 (0.00)

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.3 Pseudo colours, Plot 1B (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 30.5 lx
Minimum illuminance	Emin	: 6.4 lx
Maximum illuminance	Emax	: 66.6 lx
Uniformity Uo	Emin/Em	: 1 : 4.78 (0.21)
Diversity Ud	Emin/Emax	: 1 : 10.43 (0.10)

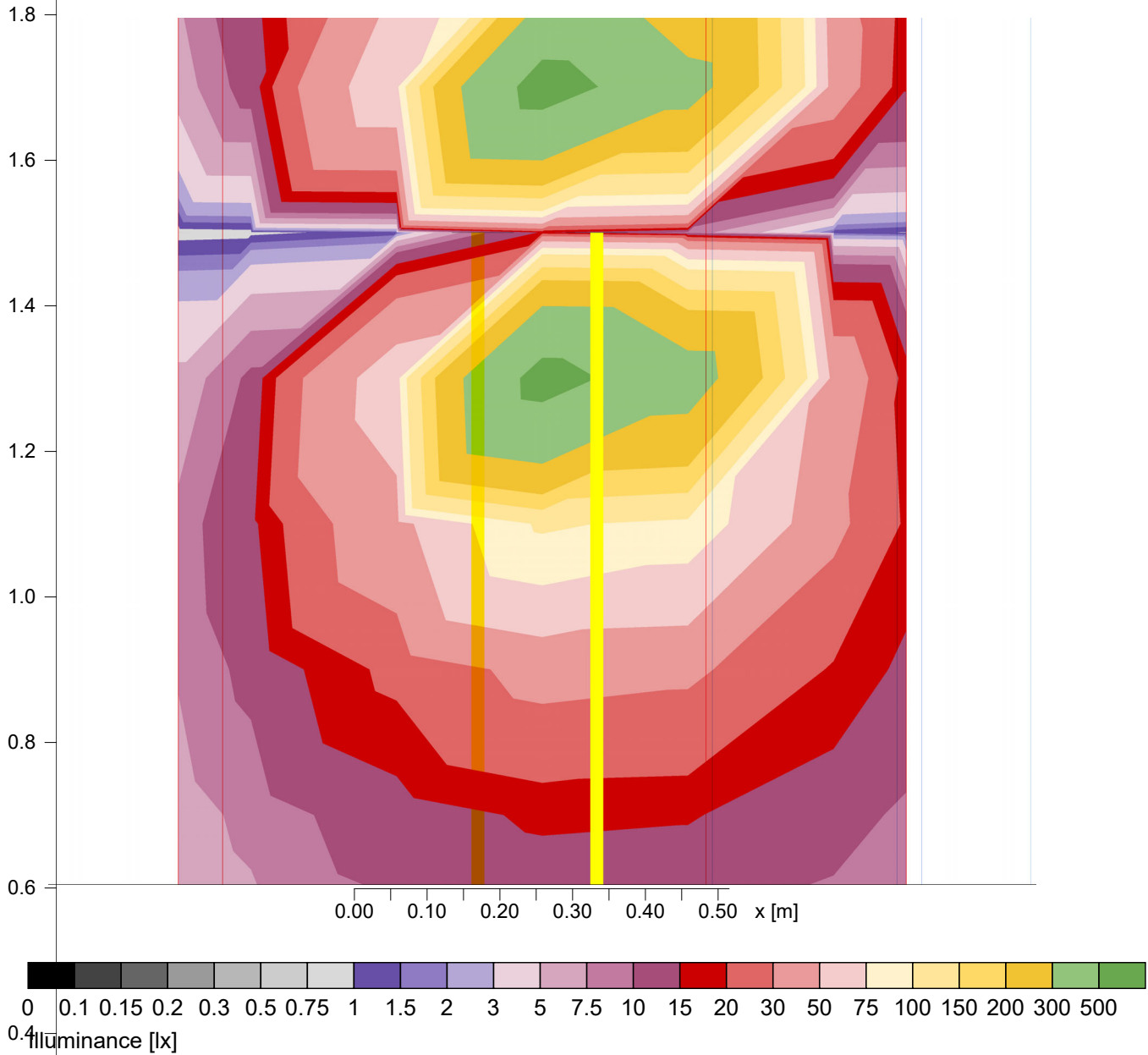


Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



2.0  
**2.3 Calculation results, Exterior 1**

**2.3.4 Pseudo colours, Vertical 1B (E)**



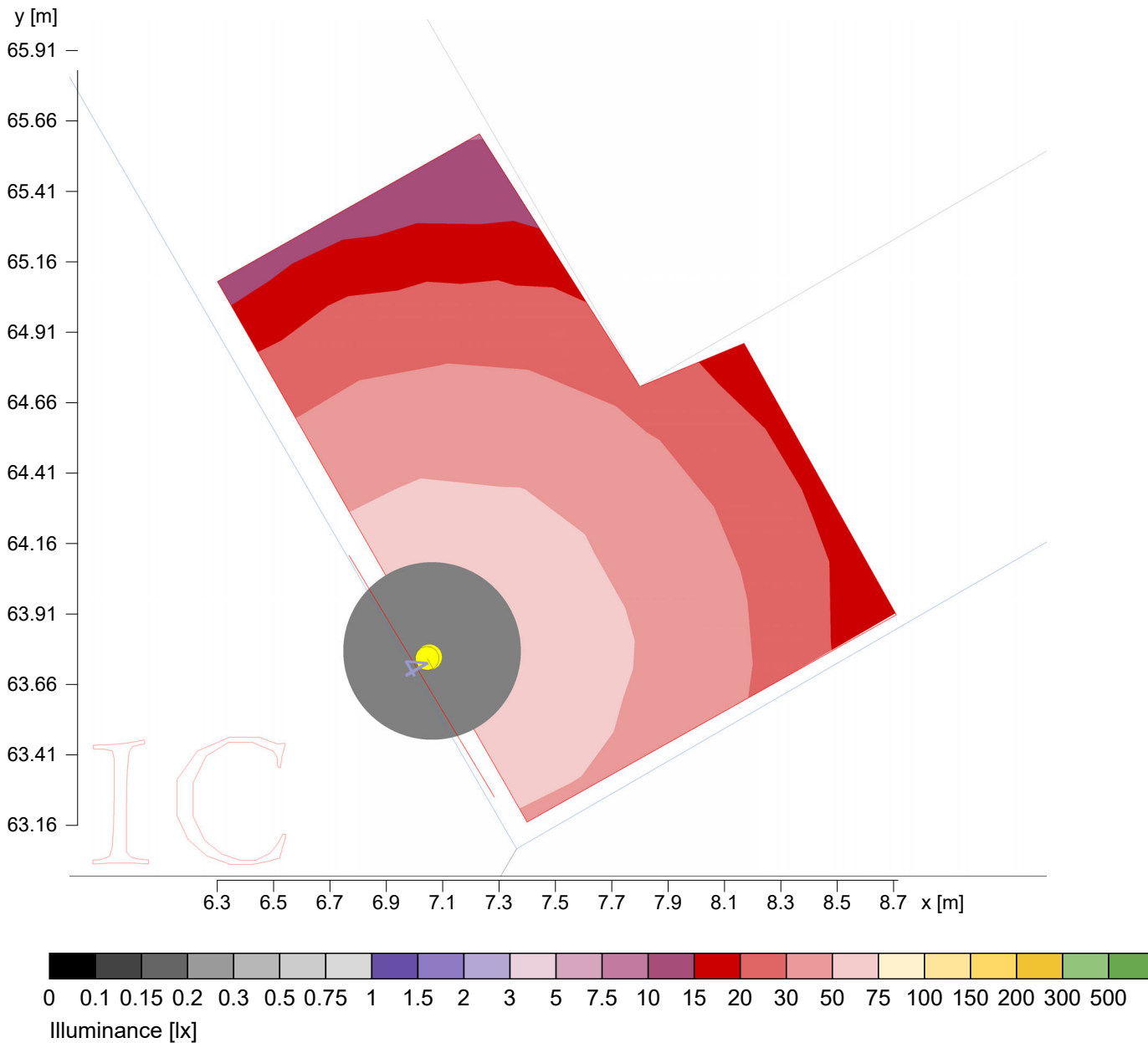
0.4	Average illuminance	Em	: 53 lx
	Minimum illuminance	Emin	: 1 lx
	Maximum illuminance	Emax	: 591 lx
	Uniformity Uo	Emin/Em	: 1 : 65.77 (0.02)
0.0	Diversity Ud	Emin/Emax	: 1 : 734.27 (0.00)

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.5 Pseudo colours, Plot 1C (E)



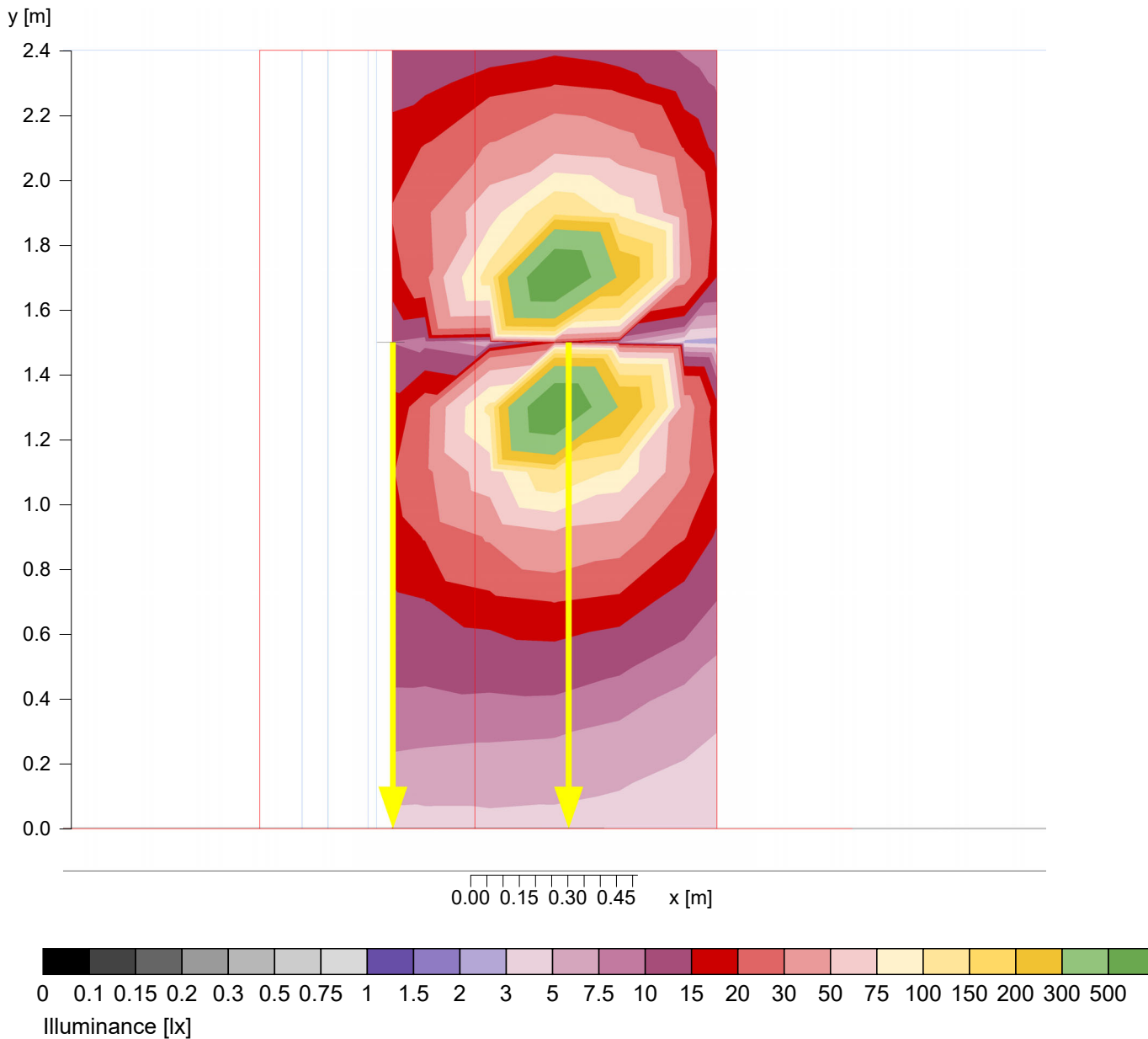
Height reference plane		: 0.00 m
Average illuminance	Em	: 36 lx
Minimum illuminance	Emin	: 12.8 lx
Maximum illuminance	Emax	: 69.3 lx
Uniformity Uo	Emin/Em	: 1 : 2.80 (0.36)
Diversity Ud	Emin/Emax	: 1 : 5.39 (0.19)

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.6 Pseudo colours, Vertical 1C (E)



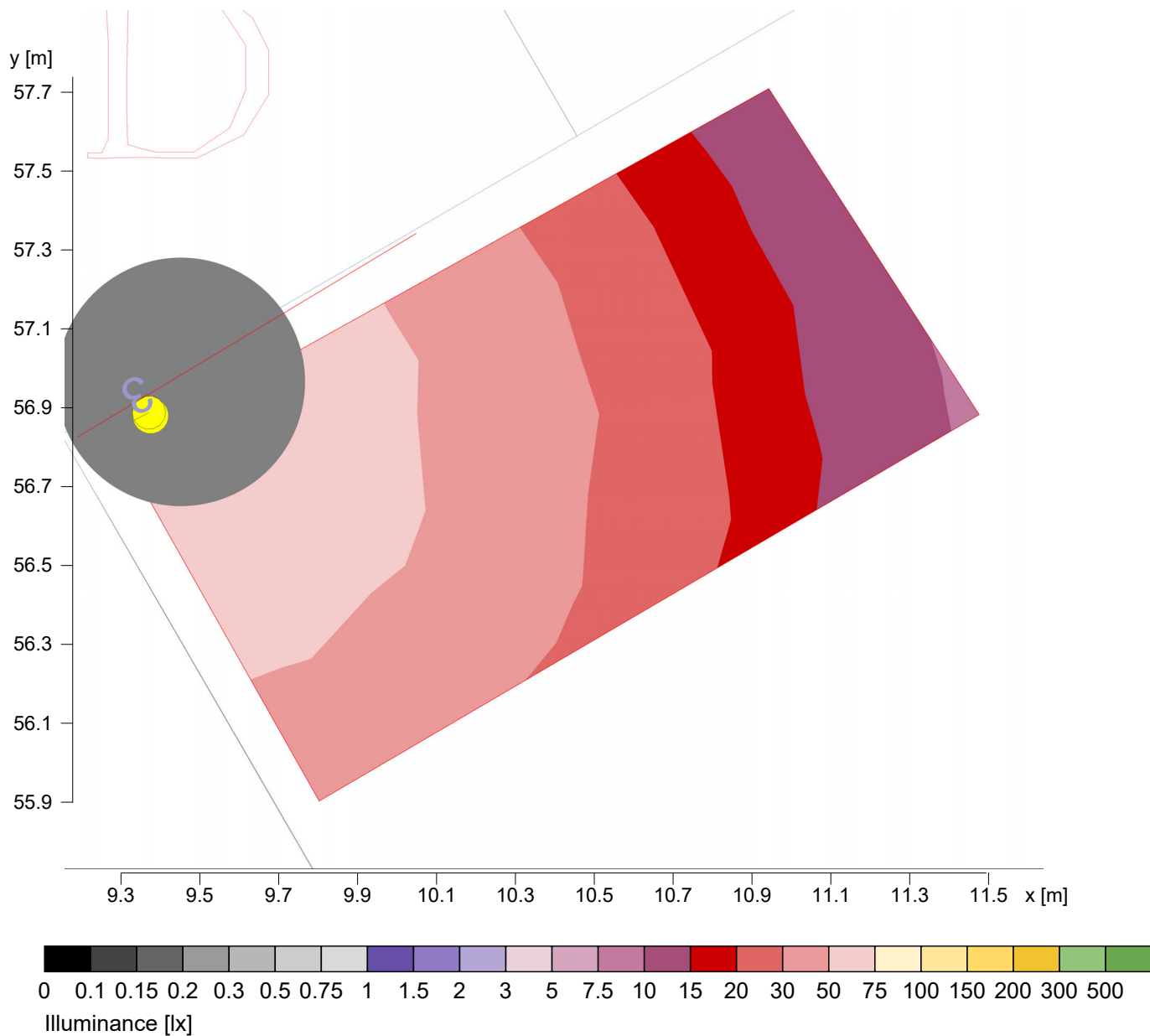
Average illuminance	Em	: 63 lx
Minimum illuminance	Emin	: 3 lx
Maximum illuminance	Emax	: 792 lx
Uniformity Uo	Emin/Em	: 1 : 24.13 (0.04)
Diversity Ud	Emin/Emax	: 1 : 303.42 (0.00)

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.7 Pseudo colours, Plot 1D (E)



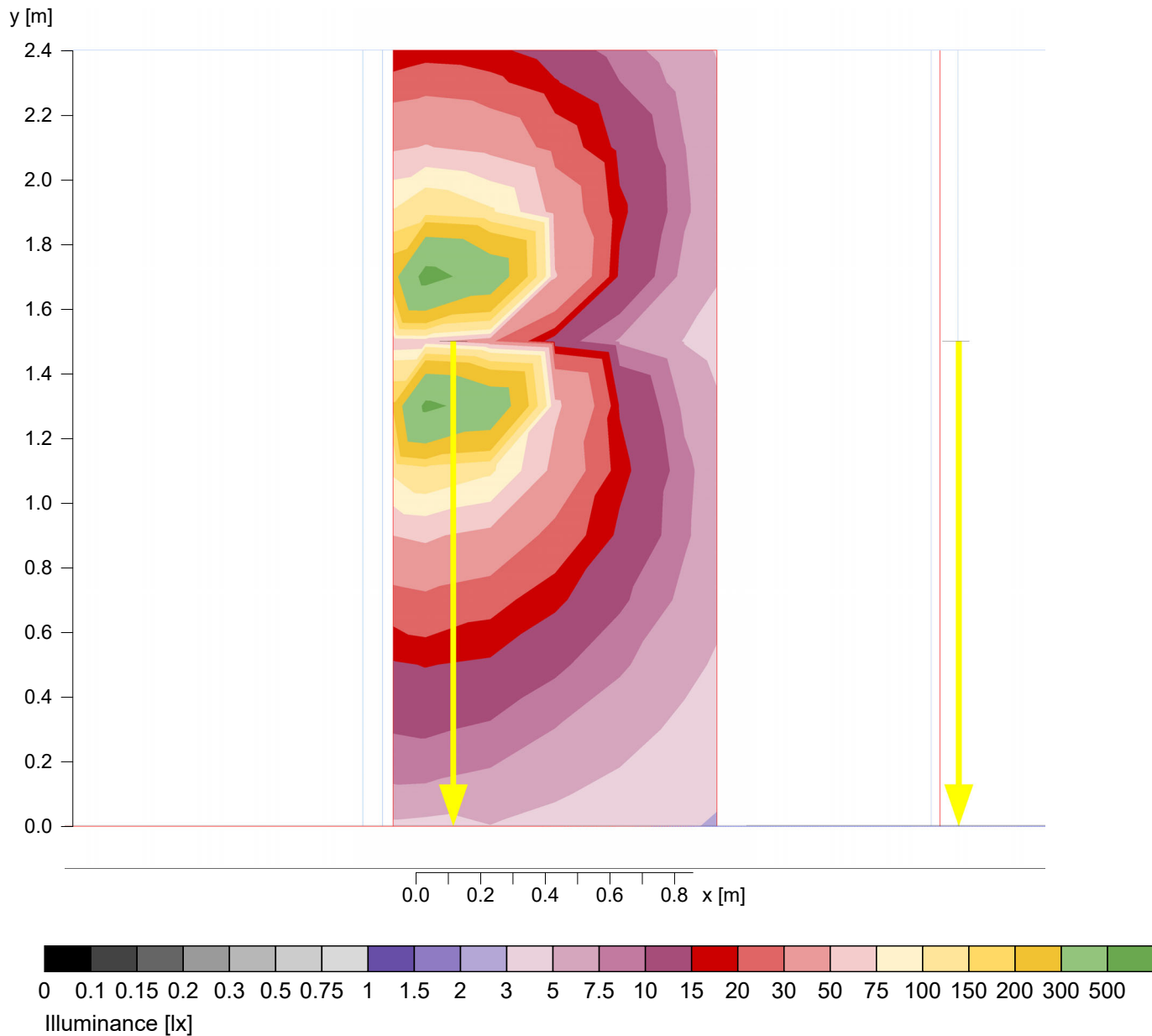
Height reference plane		: 0.00 m
Average illuminance	Em	: 35.1 lx
Minimum illuminance	Emin	: 11.5 lx
Maximum illuminance	Emax	: 74.6 lx
Uniformity Uo	Emin/Em	: 1 : 3.05 (0.33)
Diversity Ud	Emin/Emax	: 1 : 6.49 (0.15)

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.8 Pseudo colours, Vertical 1D (E)



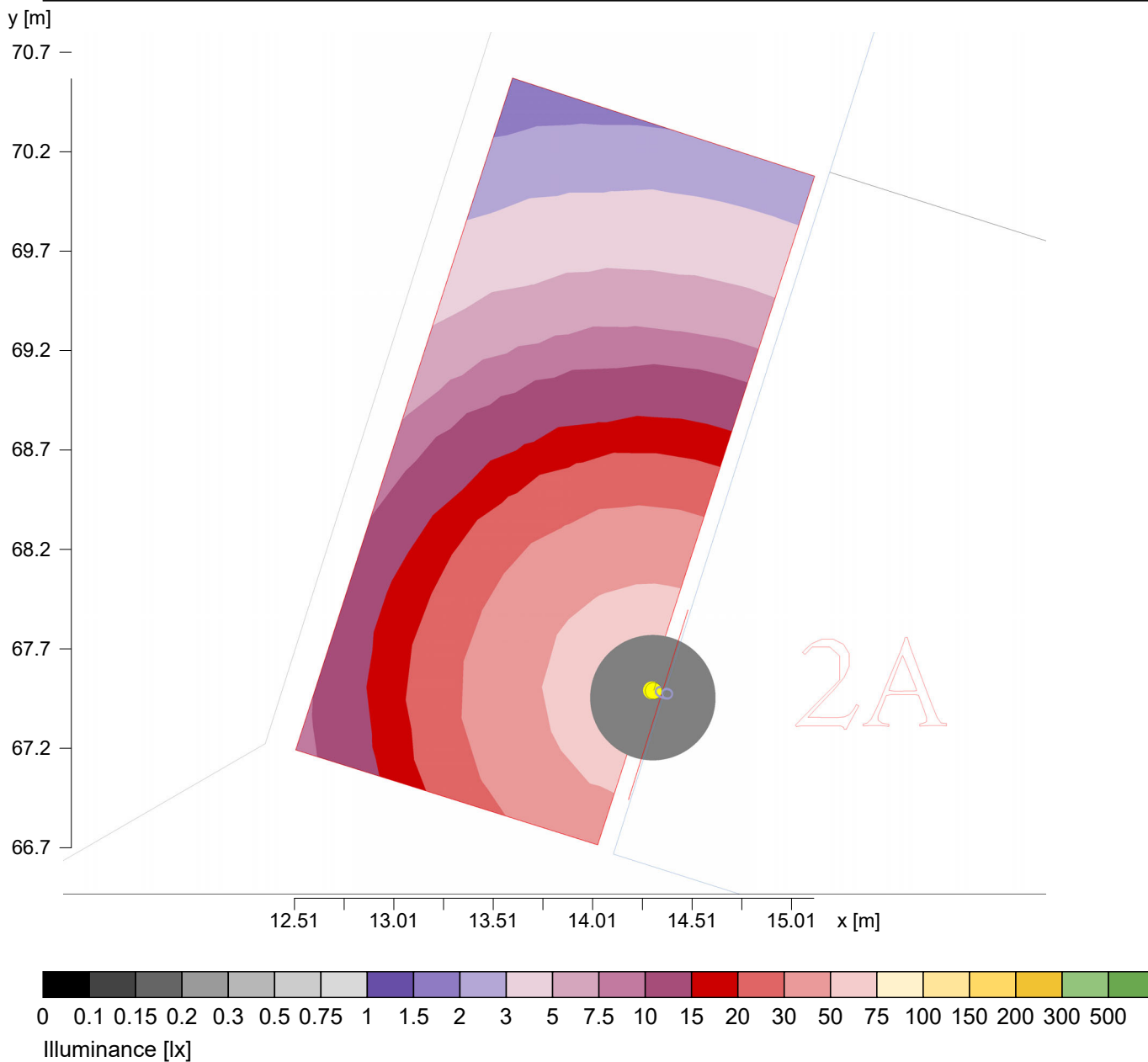
Average illuminance	Em	: 56 lx
Minimum illuminance	Emin	: 4 lx
Maximum illuminance	Emax	: 571 lx
Uniformity Uo	Emin/Em	: 1 : 15.73 (0.06)
Diversity Ud	Emin/Emax	: 1 : 160.99 (0.01)

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.9 Pseudo colours, Plot 2A (E)



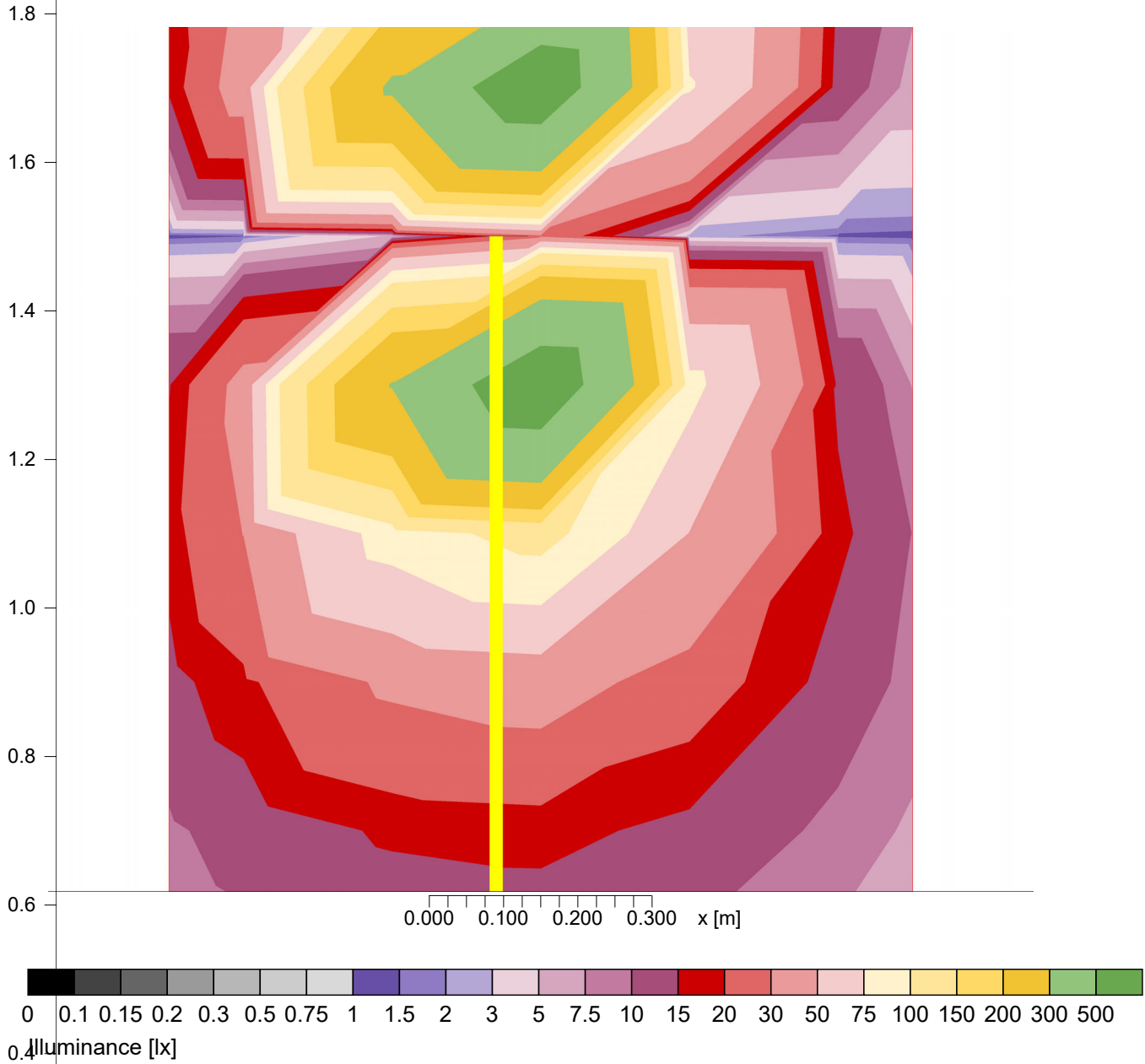
Height reference plane		: 0.00 m
Average illuminance	Em	: 19.3 lx
Minimum illuminance	Emin	: 1.8 lx
Maximum illuminance	Emax	: 66.1 lx
Uniformity Uo	Emin/Em	: 1 : 10.64 (0.09)
Diversity Ud	Emin/Emax	: 1 : 36.55 (0.03)

2.2 Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.10 Pseudo colours, Vertical 2A (E)



Average illuminance	Em	: 55 lx
Minimum illuminance	Emin	: 1 lx
Maximum illuminance	Emax	: 668 lx
Uniformity Uo	Emin/Em	: 1 : 38.89 (0.03)
Diversity Ud	Emin/Emax	: 1 : 472.75 (0.00)

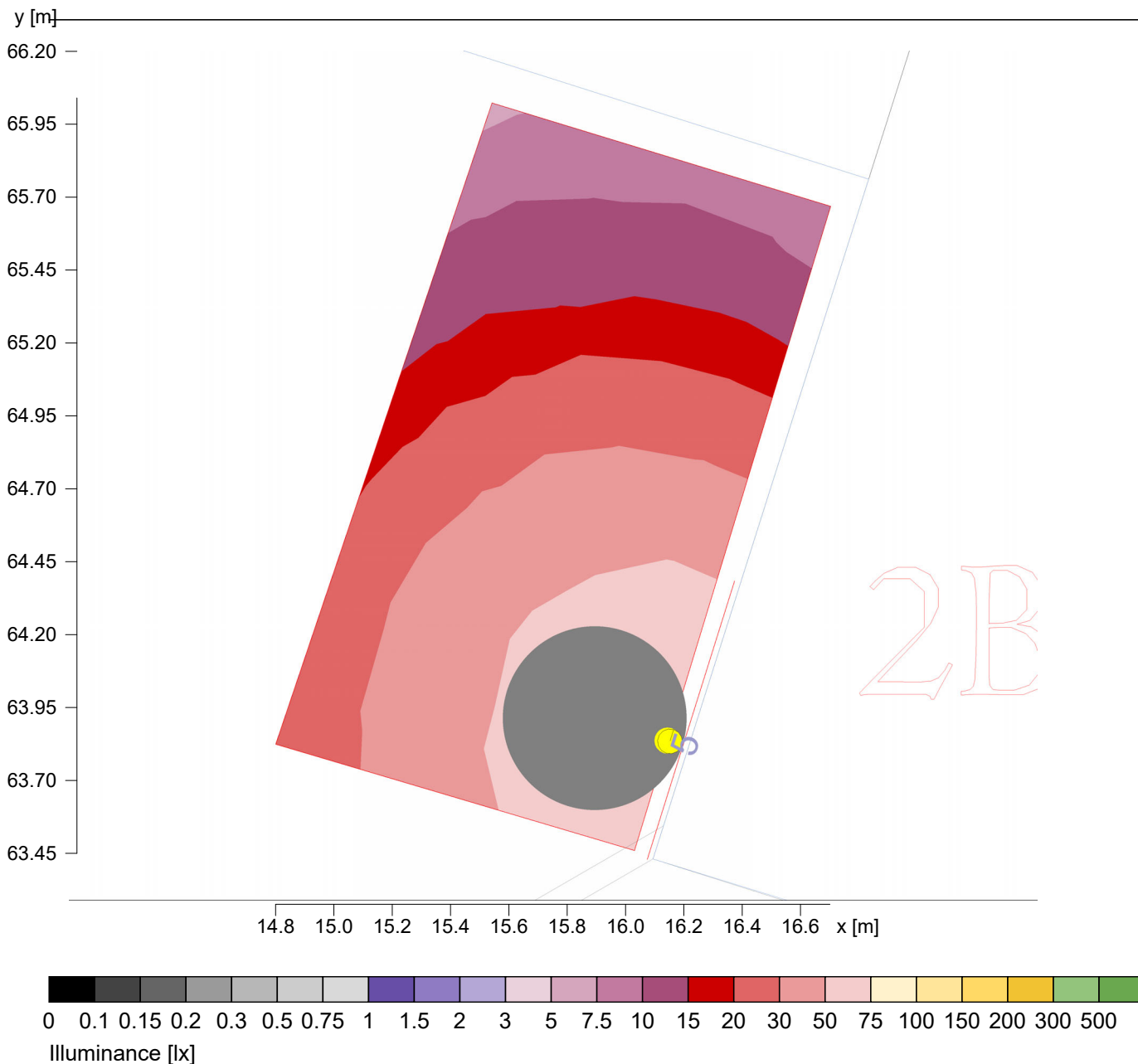
0.0

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.11 Pseudo colours, Plot 2B (E)



Height reference plane		: 0.00 m
Average illuminance	Em	: 30.4 lx
Minimum illuminance	Emin	: 8.4 lx
Maximum illuminance	Emax	: 68.1 lx
Uniformity Uo	Emin/Em	: 1 : 3.63 (0.28)
Diversity Ud	Emin/Emax	: 1 : 8.13 (0.12)

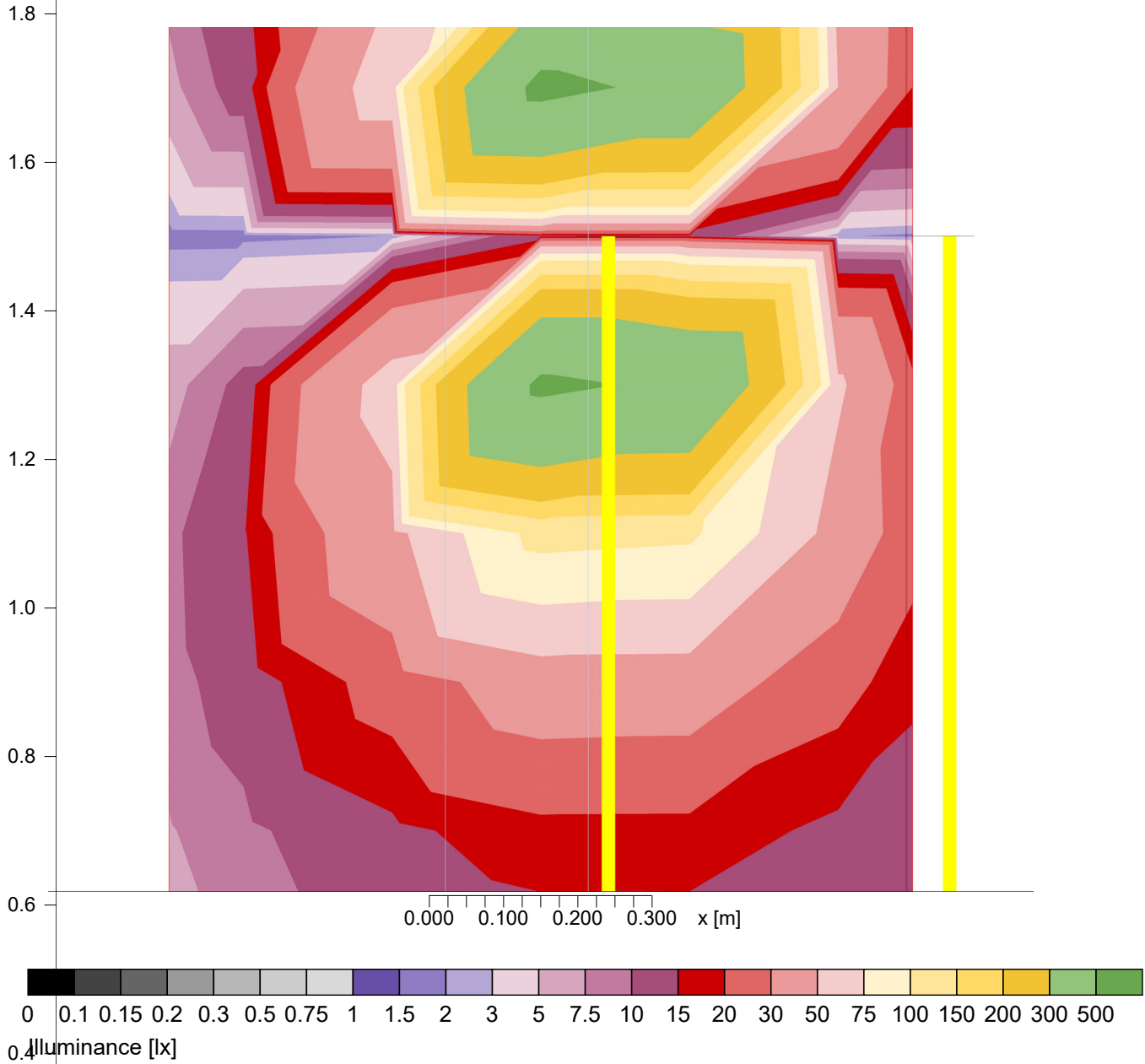


2.2 Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.12 Pseudo colours, Vertical 2B (E)



Average illuminance	Em	: 57 lx
Minimum illuminance	Emin	: 2 lx
Maximum illuminance	Emax	: 552 lx
Uniformity Uo	Emin/Em	: 1 : 35.42 (0.03)
Diversity Ud	Emin/Emax	: 1 : 343.56 (0.00)

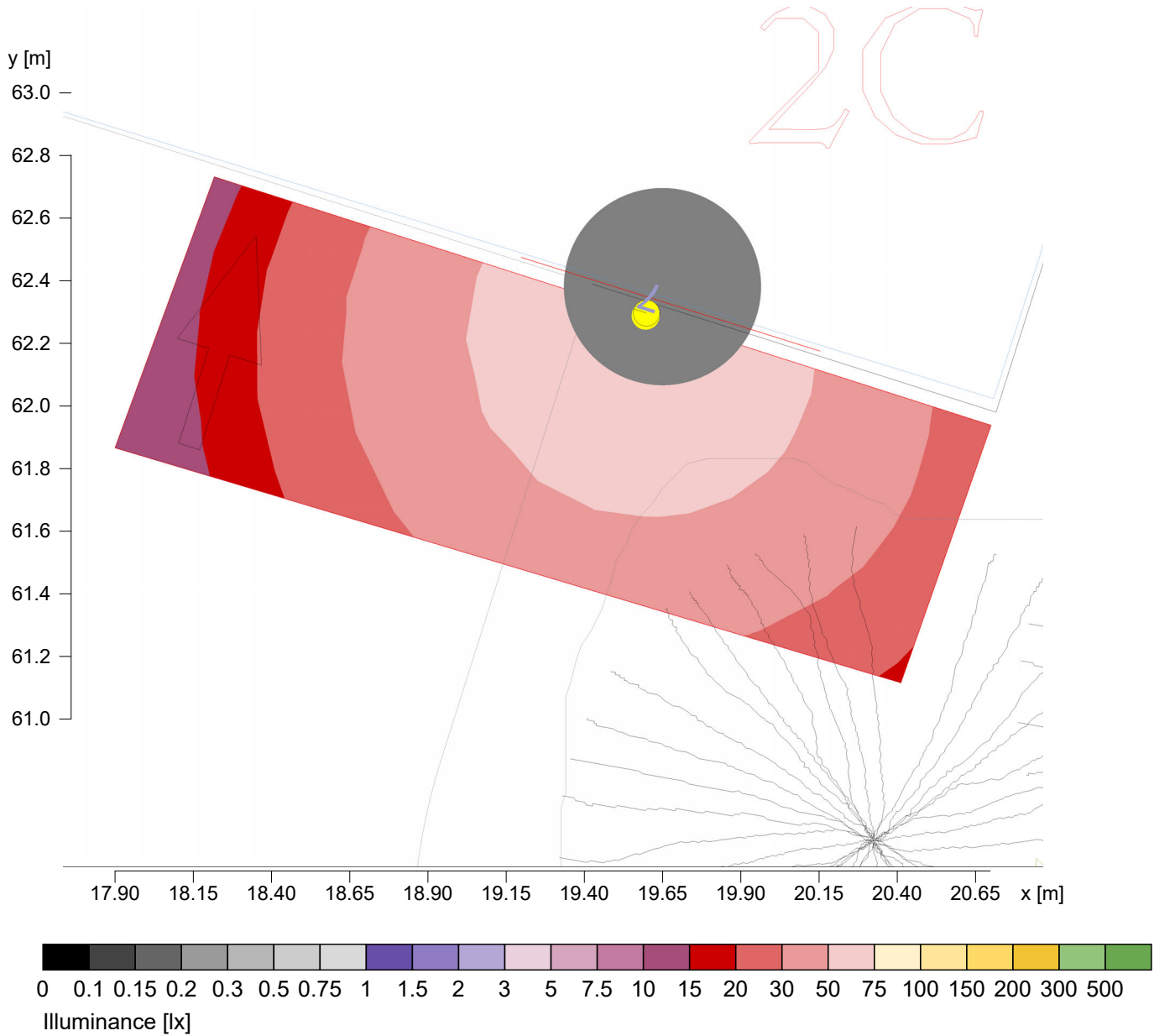
0.0

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.13 Pseudo colours, Plot 2C (E)



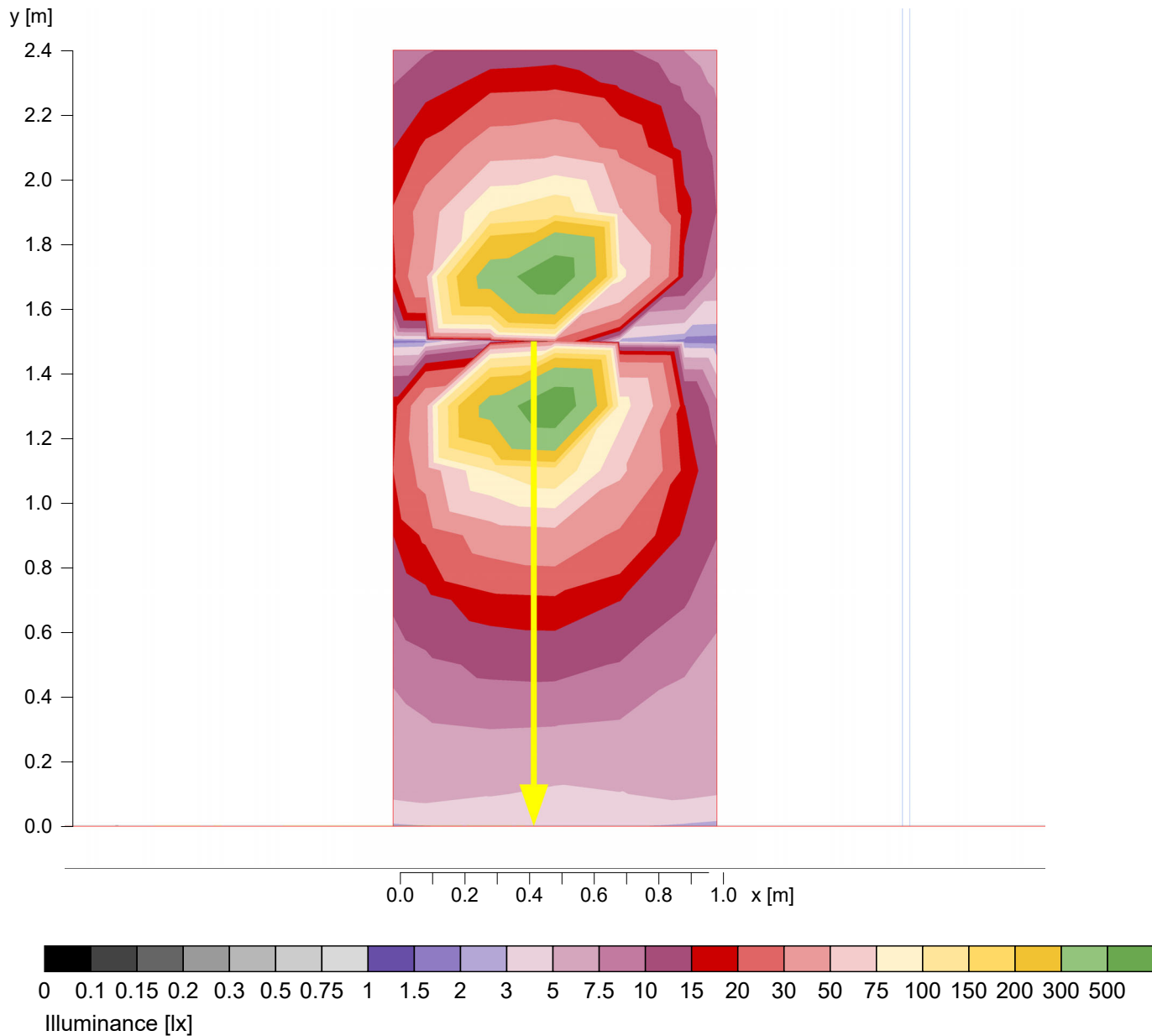
Height reference plane	:	0.00 m
Average illuminance	Em	: 38.3 lx
Minimum illuminance	Emin	: 12.2 lx
Maximum illuminance	Emax	: 69.6 lx
Uniformity Uo	Emin/Em	: 1 : 3.14 (0.32)
Diversity Ud	Emin/Emax	: 1 : 5.69 (0.18)

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.14 Pseudo colours, Vertical 2C (E)



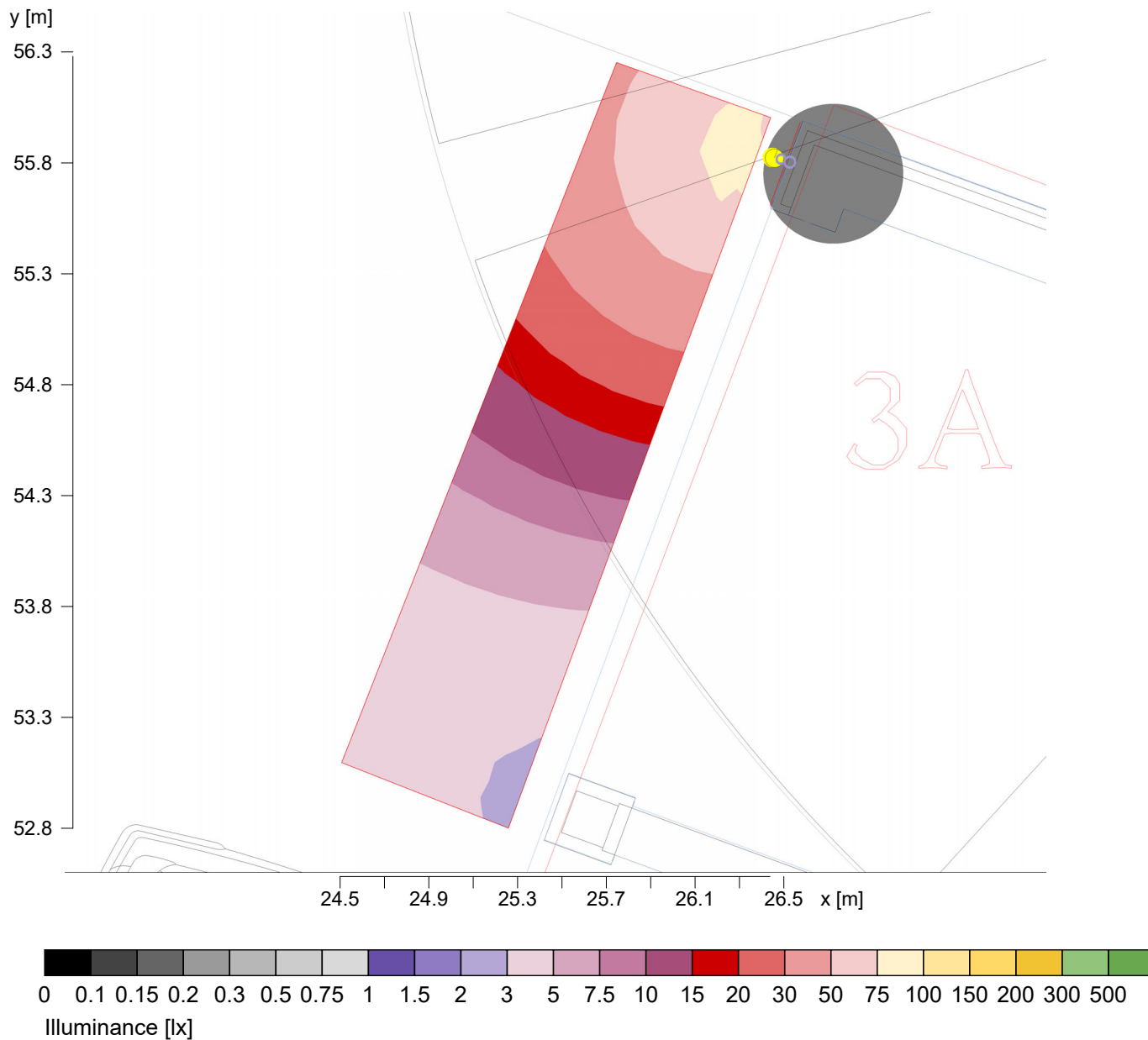
Average illuminance	Em	: 60 lx
Minimum illuminance	Emin	: 2 lx
Maximum illuminance	Emax	: 700 lx
Uniformity Uo	Emin/Em	: 1 : 37.31 (0.03)
Diversity Ud	Emin/Emax	: 1 : 432.71 (0.00)

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.15 Pseudo colours, Plot 3A (E)



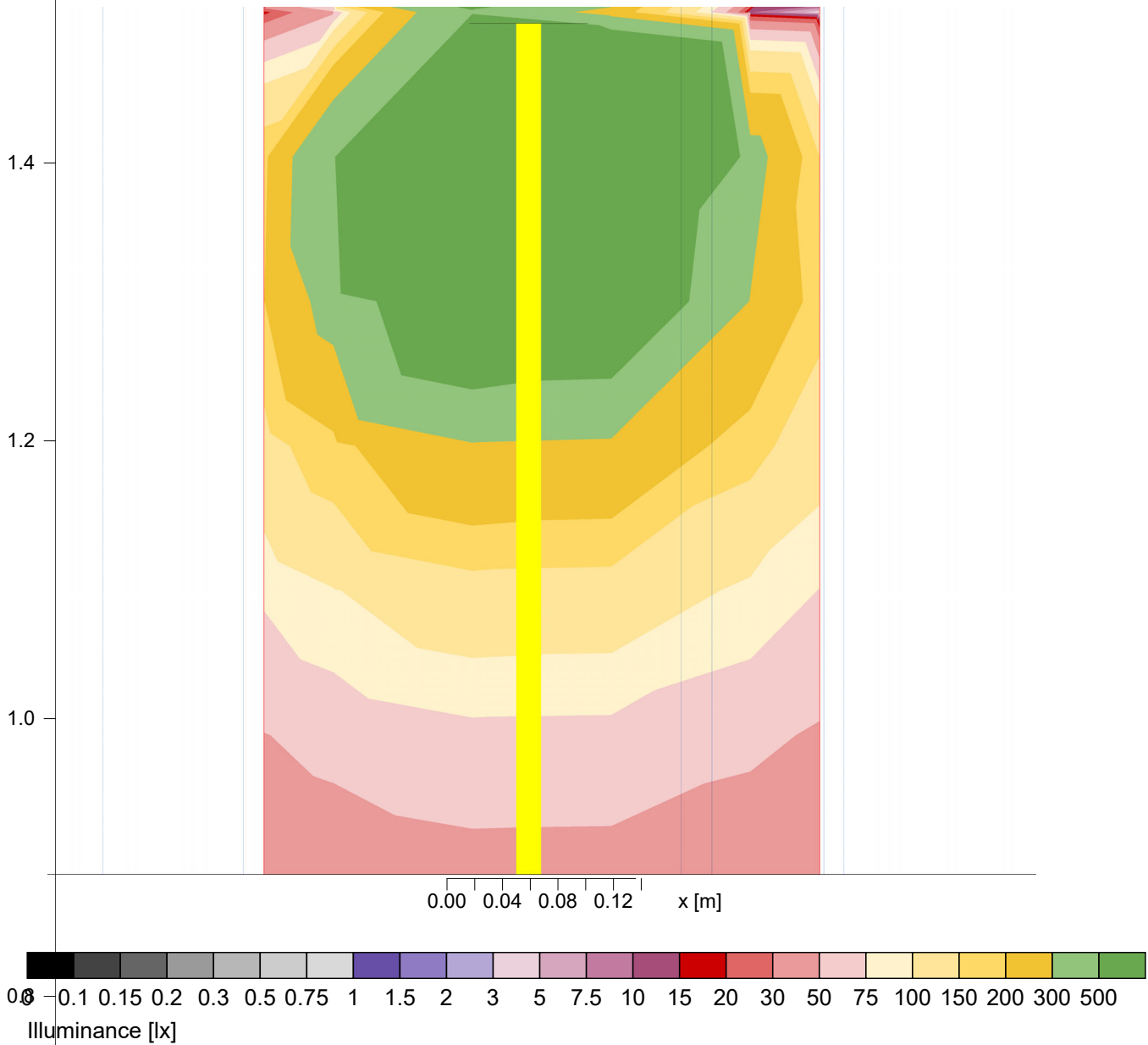
Height reference plane		: 0.00 m
Average illuminance	Em	: 22.9 lx
Minimum illuminance	Emin	: 2.9 lx
Maximum illuminance	Emax	: 86.1 lx
Uniformity Uo	Emin/Em	: 1 : 7.87 (0.13)
Diversity Ud	Emin/Emax	: 1 : 29.57 (0.03)

Object : The Dell Pakenham  
 Installation : Proposed New Lighting  
 Project number : QUO-72480-W7N4Z7  
 Date : 24.11.2022



1.2.3 Calculation results, Exterior 1

2.3.16 Pseudo colours, Vertical 3A (E)



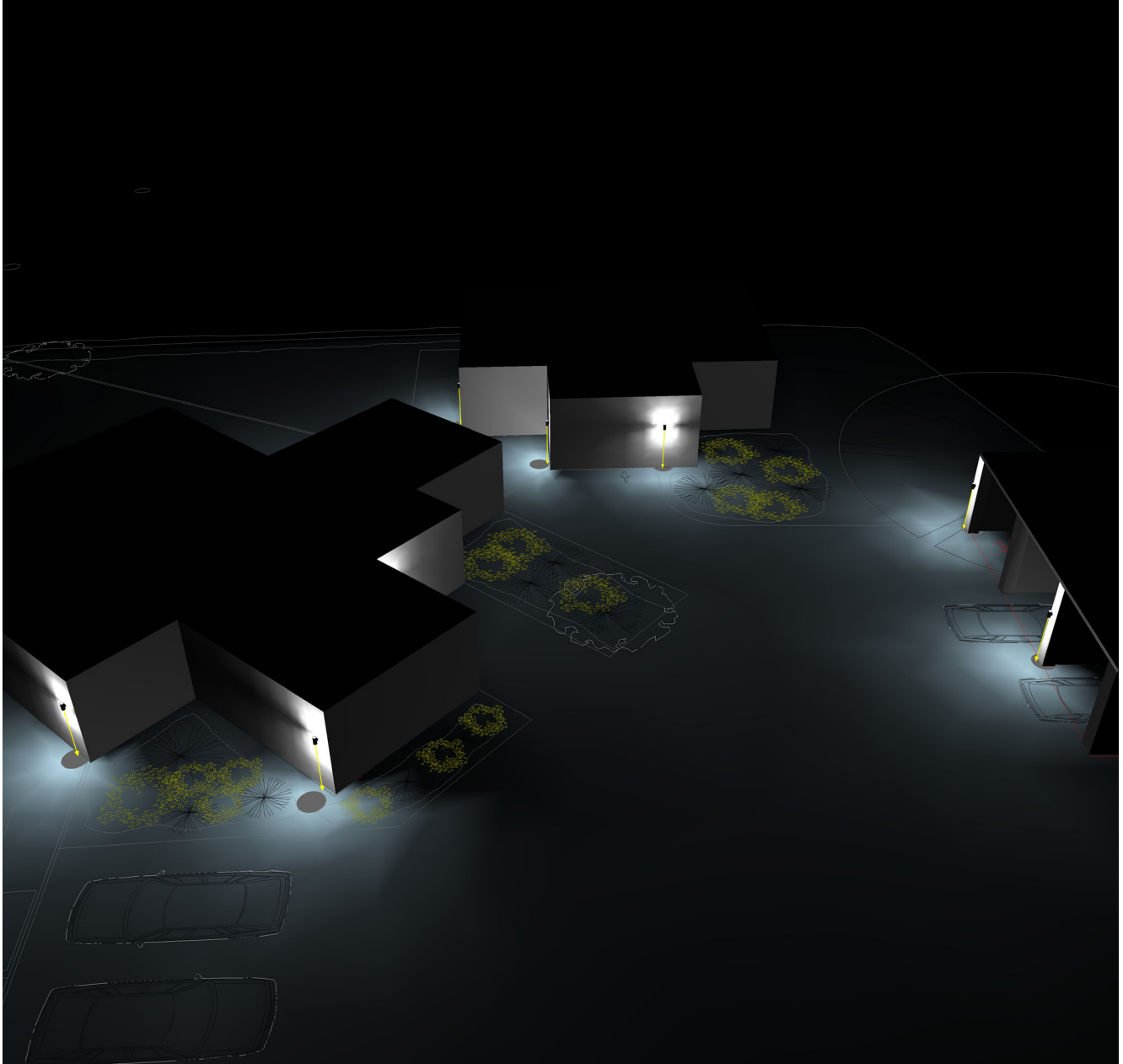
Average illuminance	Em	: 224 lx
Minimum illuminance	Emin	: 4 lx
Maximum illuminance	Emax	: 3040 lx
Uniformity Uo	Emin/Em	: 1 : 58.85 (0.02)
Diversity Ud	Emin/Emax	: 1 : 800.12 (0.00)

Object : The Dell Pakenham  
Installation : Proposed New Lighting  
Project number : QUO-72480-W7N4Z7  
Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.17 3D luminance, View 1

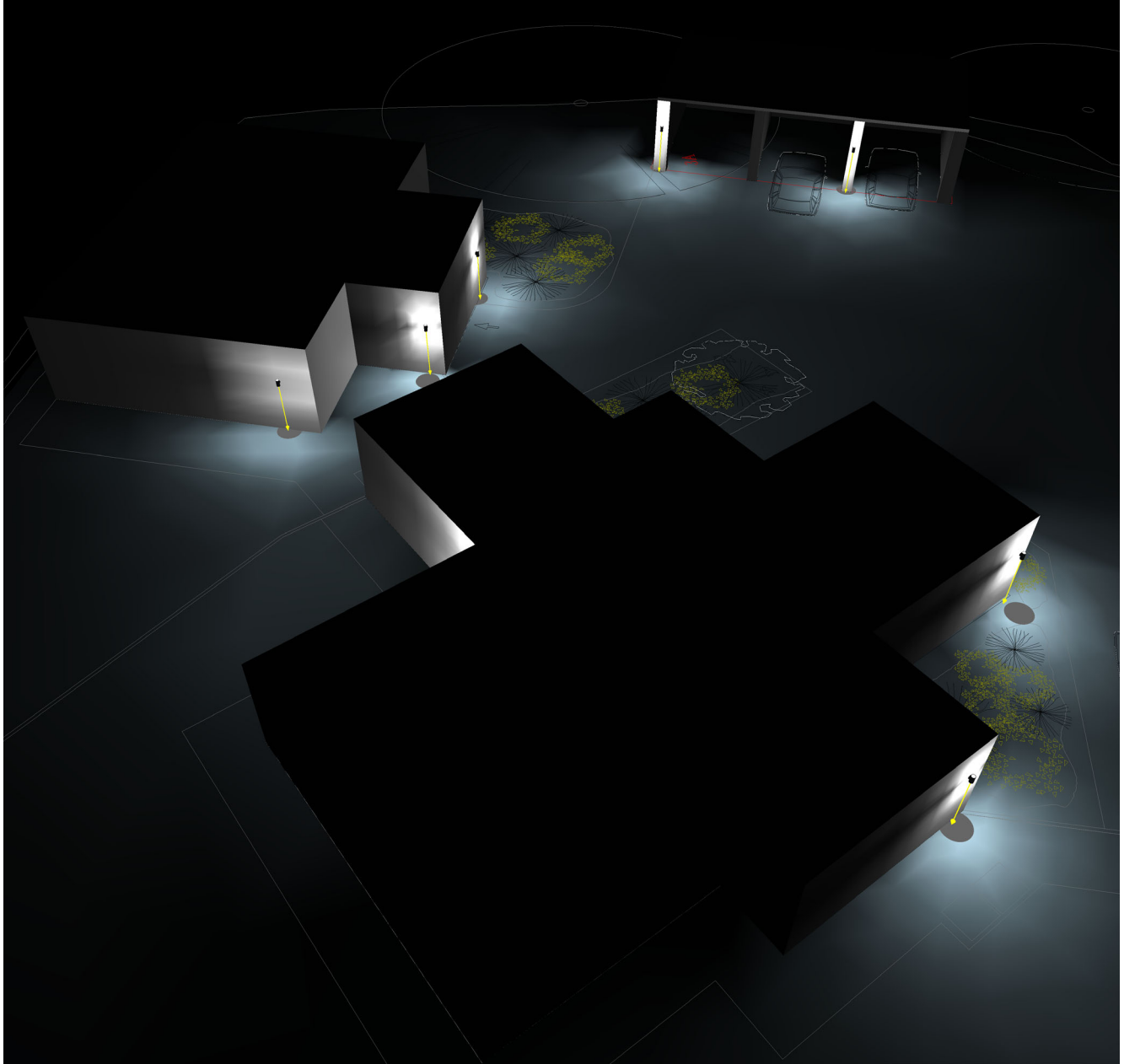


Object : The Dell Pakenham  
Installation : Proposed New Lighting  
Project number : QUO-72480-W7N4Z7  
Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.18 3D luminance, View 2

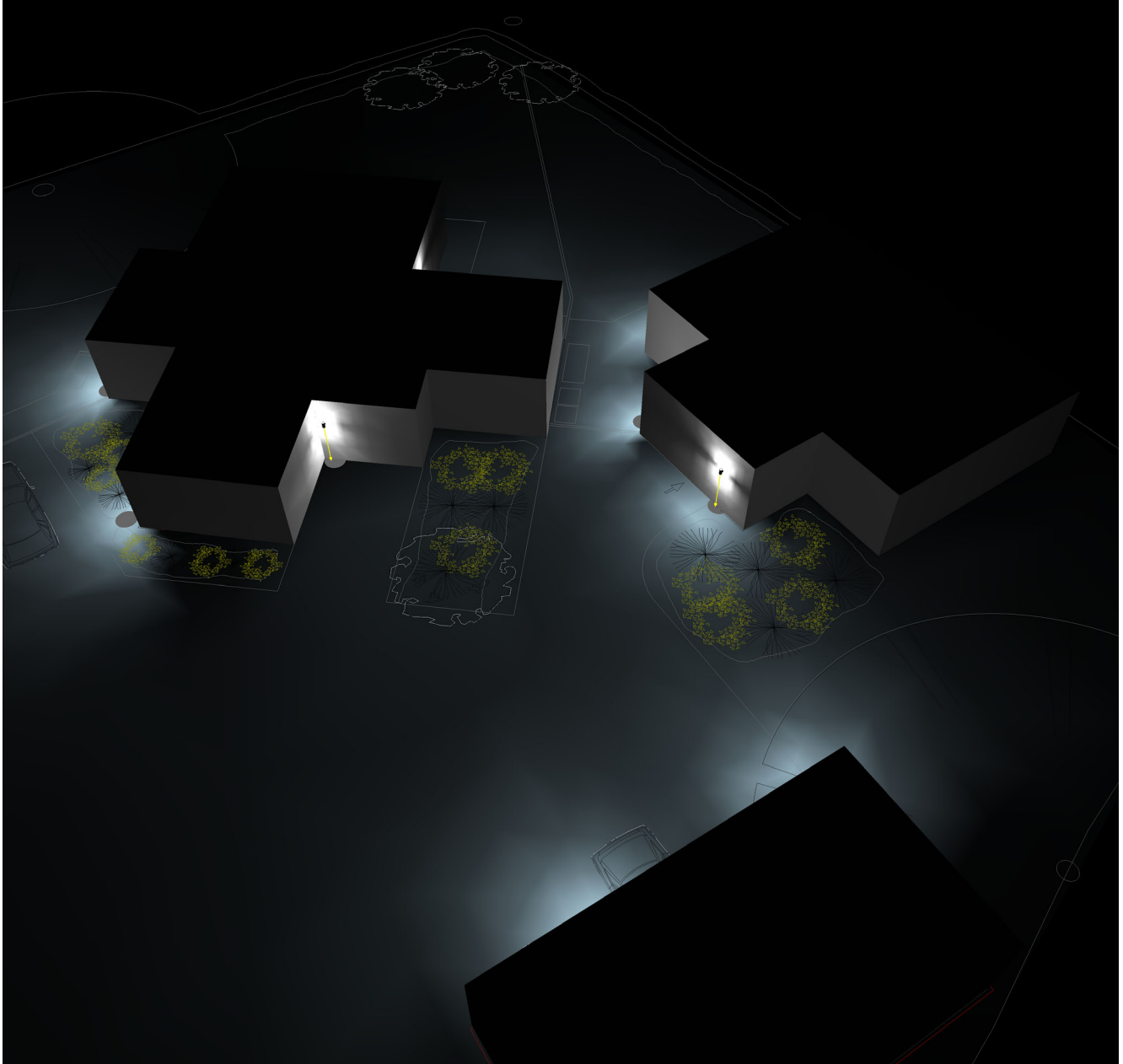


Object : The Dell Pakenham  
Installation : Proposed New Lighting  
Project number : QUO-72480-W7N4Z7  
Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.19 3D luminance, View 3



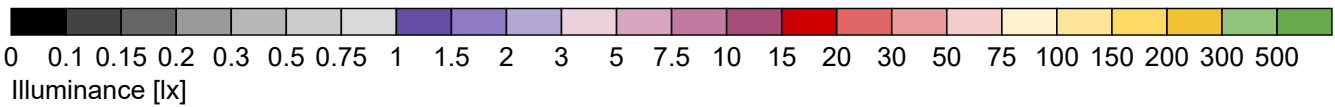
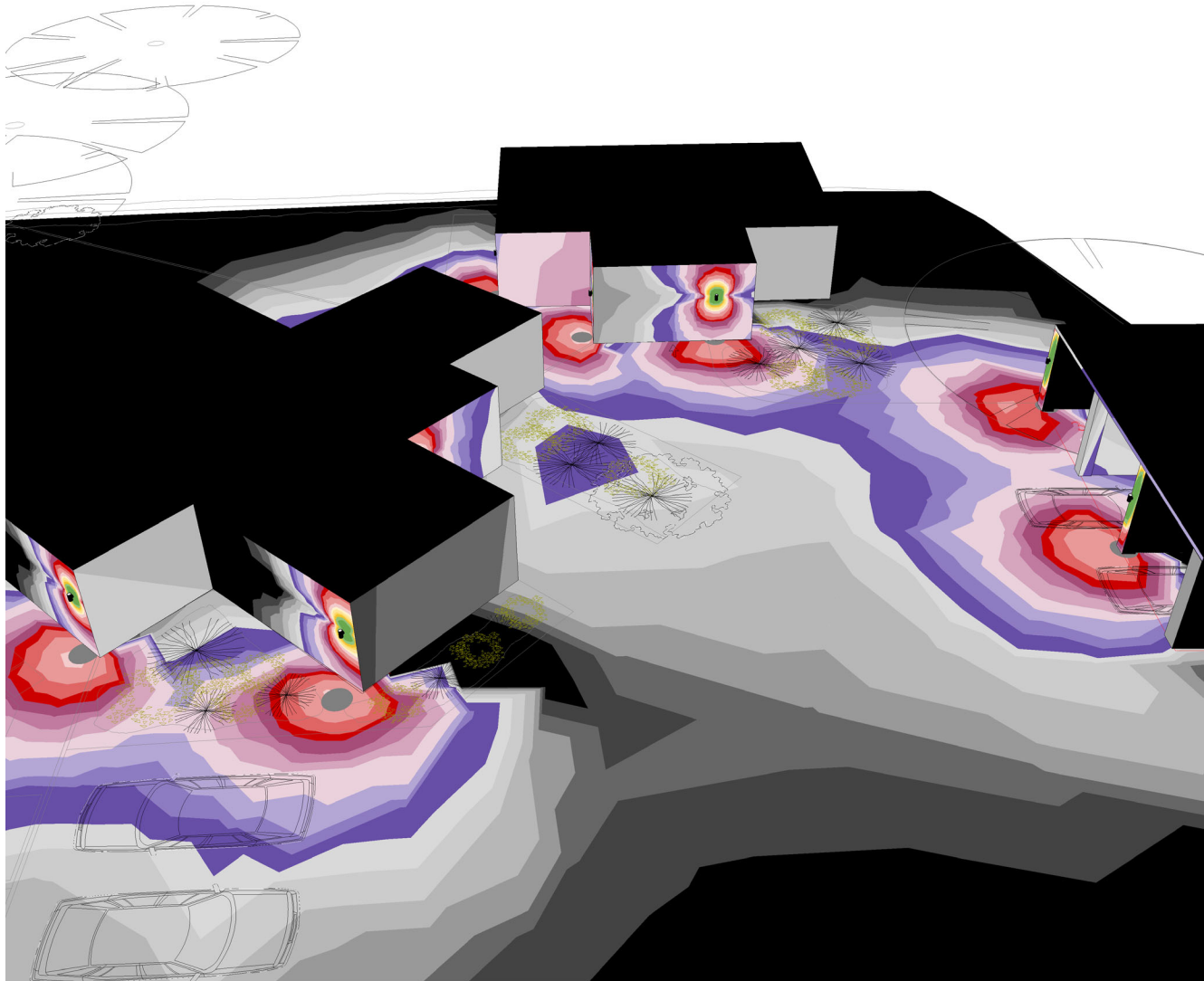


Object : The Dell Pakenham  
Installation : Proposed New Lighting  
Project number : QUO-72480-W7N4Z7  
Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.20 3D pseudo colours, View 1 (E)

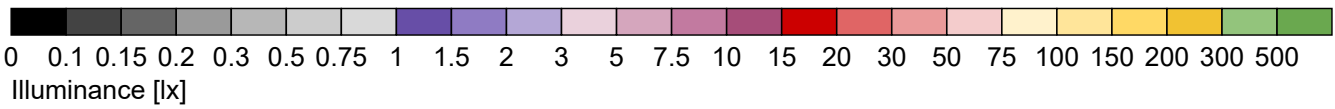
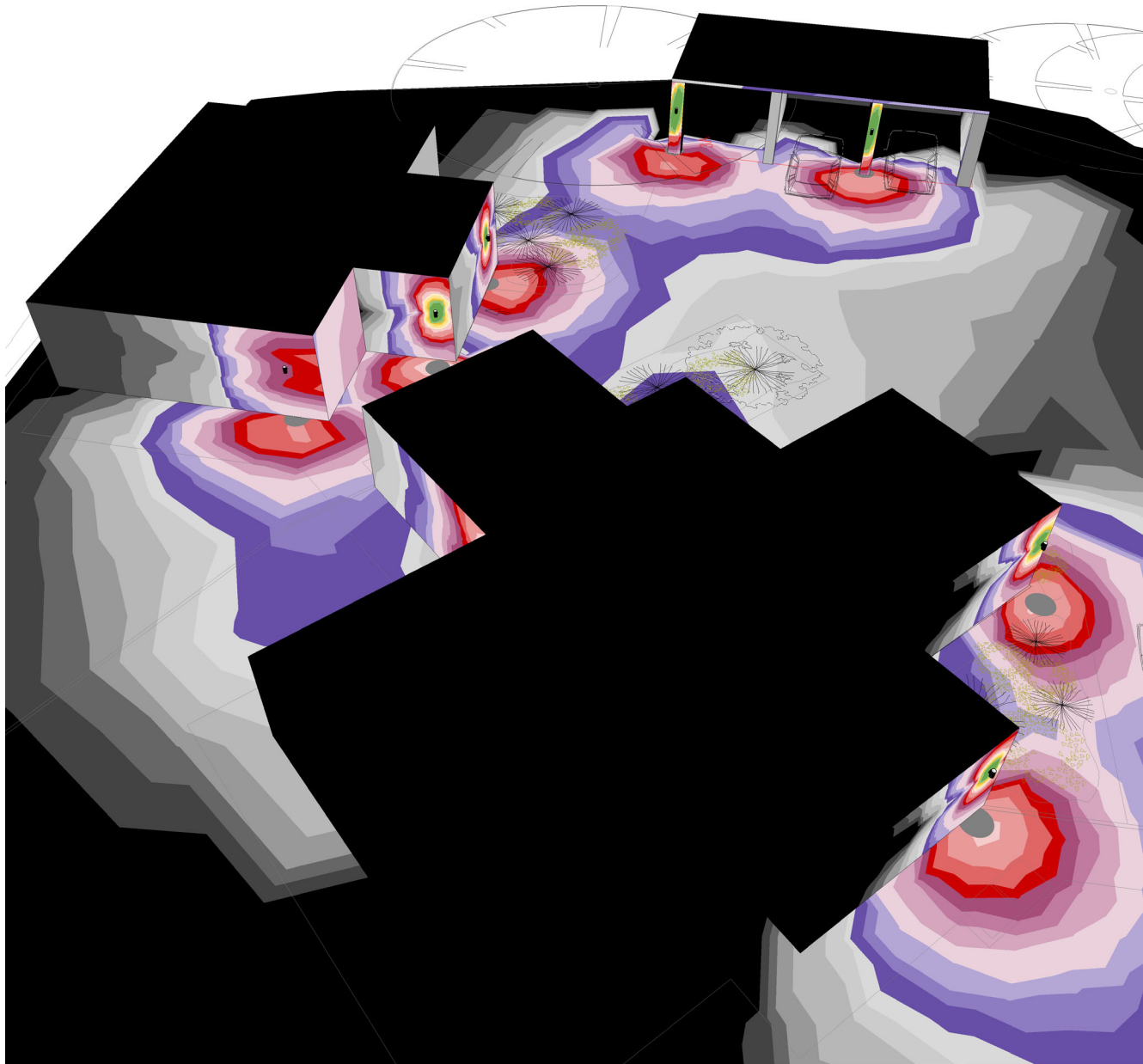


Object : The Dell Pakenham  
Installation : Proposed New Lighting  
Project number : QUO-72480-W7N4Z7  
Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.21 3D pseudo colours, View 2 (E)



Object : The Dell Pakenham  
Installation : Proposed New Lighting  
Project number : QUO-72480-W7N4Z7  
Date : 24.11.2022



## 2.3 Calculation results, Exterior 1

### 2.3.22 3D pseudo colours, View 3 (E)

