

## Proposed New Dwellings

Installation : West of North Lodge, Codford, Wiltshire

Project number :

Customer : Mr G Lewis & Mrs L Payne

Processed by : Inform

Date : 04.08.2026

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.

Object : Proposed New Dwellings  
Installation : West of North Lodge, Codford, Wiltshire  
Project number :  
Date : 04.08.2026



1 Luminaire data

1.1 Thorn, CESAR AMP S DWN 1L927WB HF ANT ... (96700037)

1.1.1 Data sheet

Manufacturer: Thorn

96700037 wall mounted CESAR AMP S DWN 1L927WB HF ANT [STD]

Cesar Amp Wall a wall mounted, architectural LED luminaire for decorative facade lighting, wide beam distribution. Fixed output LED driver. Class I electrical, IP65, Impact strength: IK08. Housing: Die-cast aluminium, powder coated anthracite. Working ambient temperature: -20°C to +40°C. Complete with 2700K LED. Class I electrical.

Dimensions: Ø90 x 250 mm  
Luminaire input power: 8.8 W  
Luminaire luminous flux: 430 lm  
Luminaire efficacy: 49 lm/W  
Weight: 1.81 kg

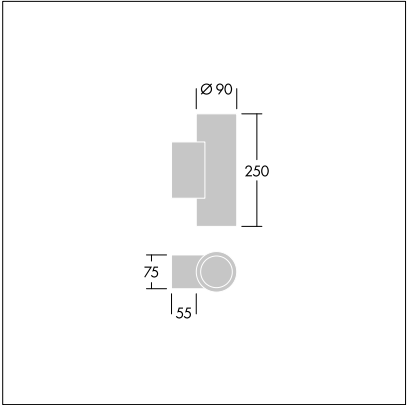
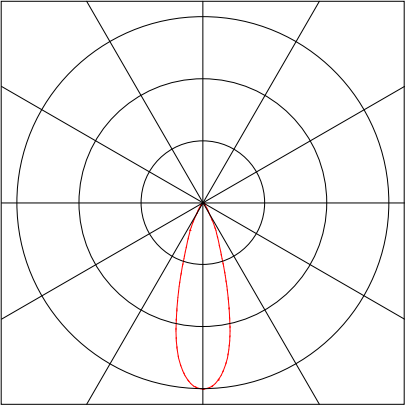
Luminaire data

Absolute Photometry  
Luminaire efficacy : 48.86 lm/W  
Classification : A80 ↓100% ↑0%  
CIE Flux Codes : 98 100 100 100 100  
UGR 4H 8H : <10.0 / <10.0  
Power : 8.8 W  
Luminous flux : 430 lm

Equipped with

Quantity : 1  
Designation : CESA\_AMP\_927  
  
Colour : 2700  
Colour reproduction : 90

Dimensions : 90 mm x 250 mm x 250 mm



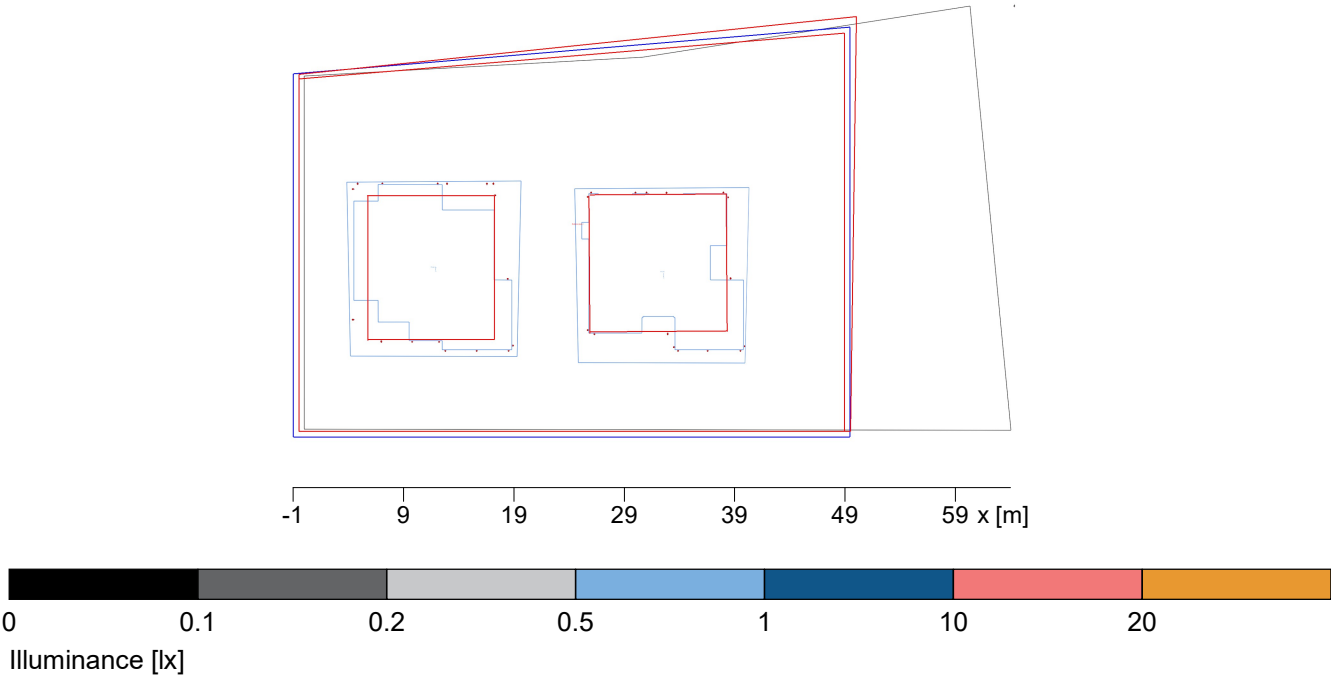
Object : Proposed New Dwellings  
Installation : West of North Lodge, Codford, Wiltshire  
Project number :  
Date : 04.08.2026



2 Exterior 1

2.1 Summary, Exterior 1

2.1.1 Result overview, House 1 - East



|                                   |                           |
|-----------------------------------|---------------------------|
| <b>General</b>                    |                           |
| Calculation algorithm used        | Average indirect fraction |
| Height (phot centre) [m]:         | 2.29 m                    |
| Maintenance factor                | 0.80                      |
|                                   |                           |
| Total luminous flux               | 14190 lm                  |
| Total power                       | 290.4 W                   |
| Total power per area (2142.24 m²) | 0.14 W/m²                 |

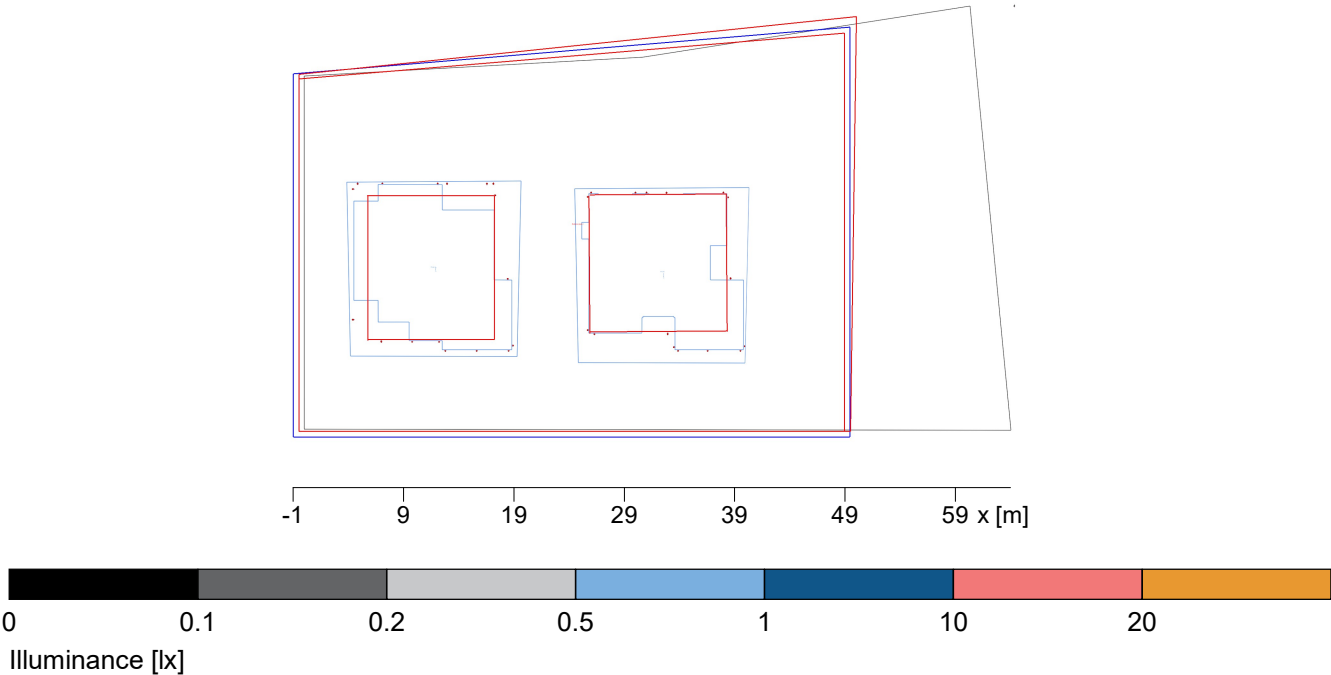
|                     |                     |  |             |
|---------------------|---------------------|--|-------------|
| <b>Illuminance</b>  |                     |  |             |
| Average illuminance | $\bar{E}_m$         |  | 0.00 lx     |
| Minimum illuminance | $E_{min}$           |  | 0.00 lx     |
| Maximum illuminance | $E_{max}$           |  | 0.00 lx     |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ |  | 1:--- (---) |
| Diversity $U_d$     | $E_{min}/E_{max}$   |  | 1:--- (---) |

Type No.\Make

|        |  |                |                                        |
|--------|--|----------------|----------------------------------------|
| 1 33 x |  | <b>Thorn</b>   |                                        |
|        |  | Order No.      | : 96700037                             |
|        |  | Luminaire name | : CESAR AMP S DWN 1L927WB HF ANT [STD] |
|        |  | Equipment      | : 1 x CESA_AMP_927 9 W / 430 lm        |

2.1 Summary, Exterior 1

2.1.2 Result overview, House 1 - West



General

|                                   |                           |
|-----------------------------------|---------------------------|
| Calculation algorithm used        | Average indirect fraction |
| Height (phot centre) [m]:         | 2.29 m                    |
| Maintenance factor                | 0.80                      |
| Total luminous flux               | 14190 lm                  |
| Total power                       | 290.4 W                   |
| Total power per area (2142.24 m²) | 0.14 W/m²                 |

Illuminance

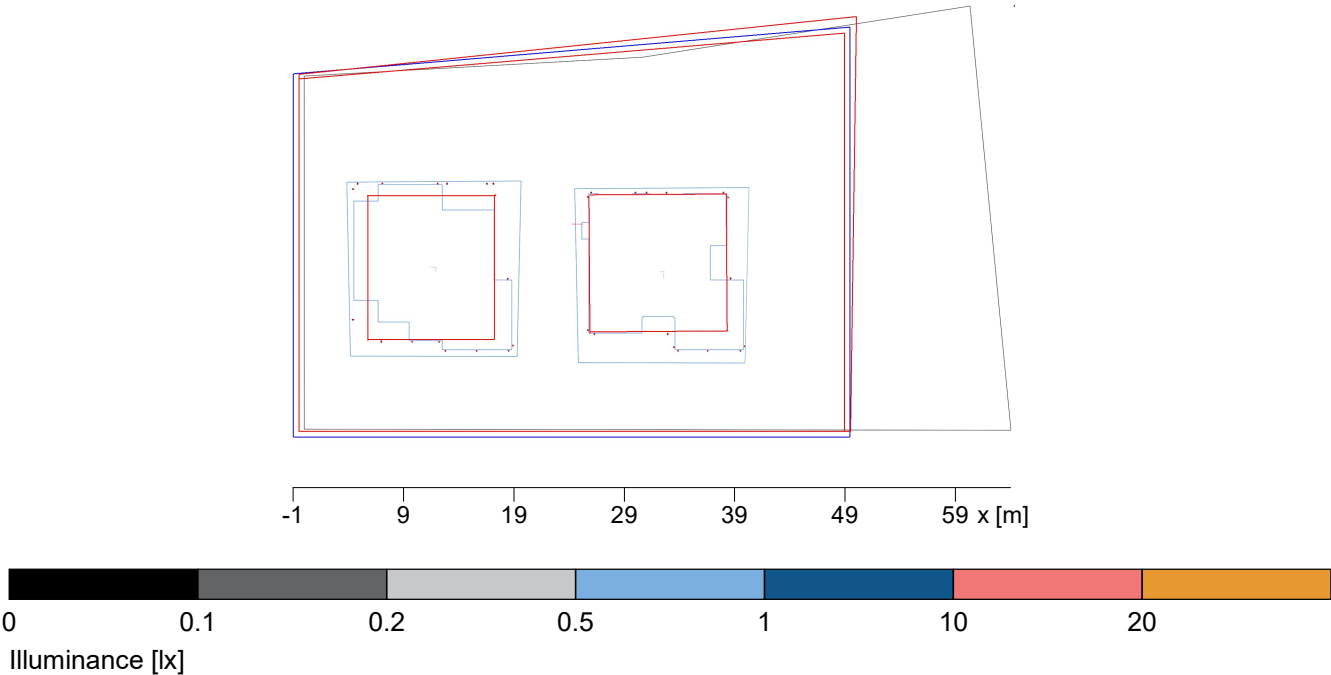
|                     |                     |             |
|---------------------|---------------------|-------------|
| Average illuminance | $\bar{E}_m$         | 0.00 lx     |
| Minimum illuminance | $E_{min}$           | 0.00 lx     |
| Maximum illuminance | $E_{max}$           | 0.00 lx     |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | 1:--- (---) |
| Diversity $U_d$     | $E_{min}/E_{max}$   | 1:--- (---) |

Type No.\Make

|   |      |                |                                        |
|---|------|----------------|----------------------------------------|
| 1 | 33 x | Thorn          |                                        |
|   |      | Order No.      | : 96700037                             |
|   |      | Luminaire name | : CESAR AMP S DWN 1L927WB HF ANT [STD] |
|   |      | Equipment      | : 1 x CESA_AMP_927 9 W / 430 lm        |

2.1 Summary, Exterior 1

2.1.3 Result overview, House 1 - North



General

|                                   |                           |
|-----------------------------------|---------------------------|
| Calculation algorithm used        | Average indirect fraction |
| Height (phot centre) [m]:         | 2.29 m                    |
| Maintenance factor                | 0.80                      |
| Total luminous flux               | 14190 lm                  |
| Total power                       | 290.4 W                   |
| Total power per area (2142.24 m²) | 0.14 W/m²                 |

Illuminance

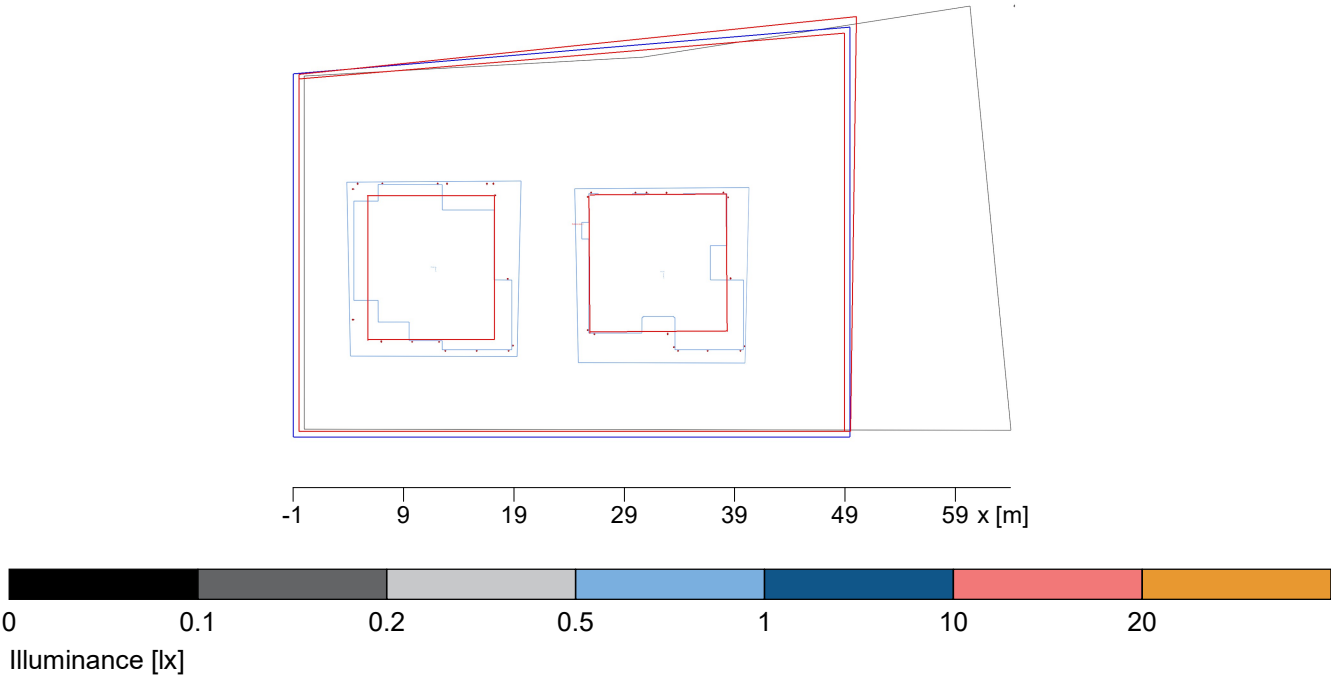
|                     |                     |             |
|---------------------|---------------------|-------------|
| Average illuminance | $\bar{E}_m$         | 0.00 lx     |
| Minimum illuminance | $E_{min}$           | 0.00 lx     |
| Maximum illuminance | $E_{max}$           | 0.00 lx     |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | 1:--- (---) |
| Diversity $U_d$     | $E_{min}/E_{max}$   | 1:--- (---) |

Type No.\Make

|   |      |                |                                        |
|---|------|----------------|----------------------------------------|
| 1 | 33 x | Thorn          |                                        |
|   |      | Order No.      | : 96700037                             |
|   |      | Luminaire name | : CESAR AMP S DWN 1L927WB HF ANT [STD] |
|   |      | Equipment      | : 1 x CESA_AMP_927 9 W / 430 lm        |

2.1 Summary, Exterior 1

2.1.4 Result overview, House 1 - South



General

|                                   |                           |
|-----------------------------------|---------------------------|
| Calculation algorithm used        | Average indirect fraction |
| Height (phot centre) [m]:         | 2.29 m                    |
| Maintenance factor                | 0.80                      |
| Total luminous flux               | 14190 lm                  |
| Total power                       | 290.4 W                   |
| Total power per area (2142.24 m²) | 0.14 W/m²                 |

Illuminance

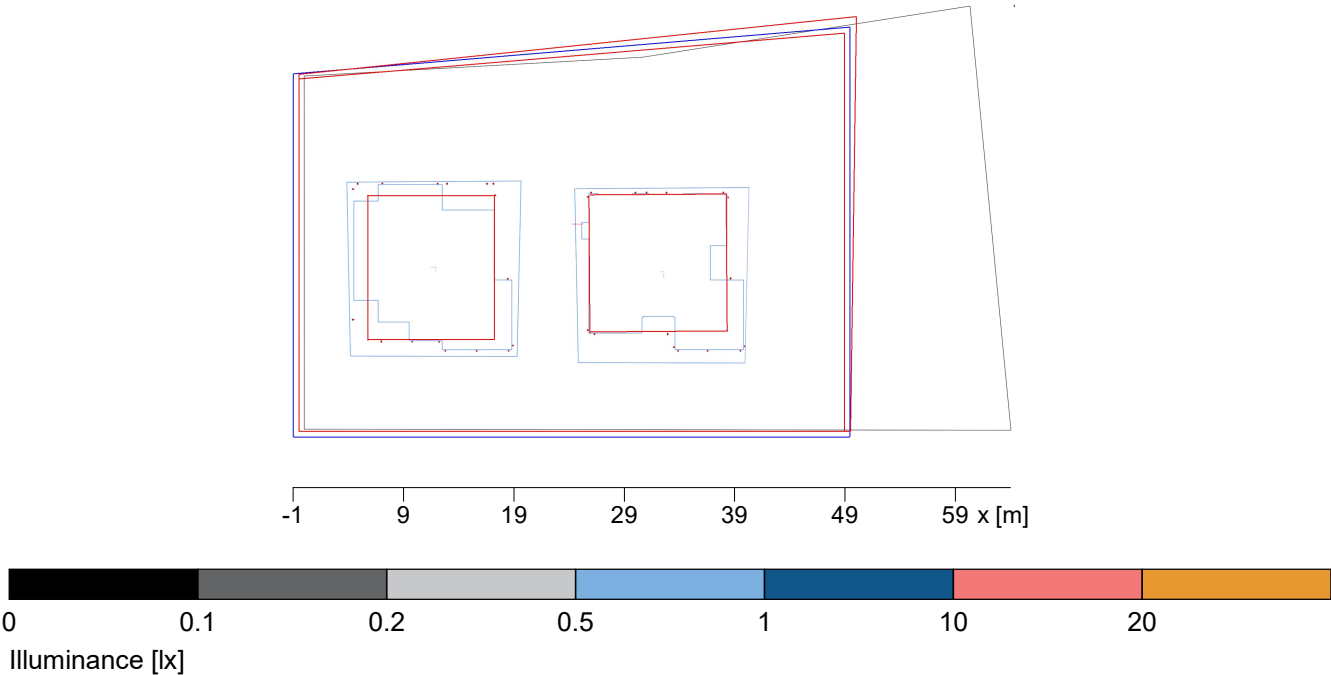
|                     |                     |             |
|---------------------|---------------------|-------------|
| Average illuminance | $\bar{E}_m$         | 0.00 lx     |
| Minimum illuminance | $E_{min}$           | 0.00 lx     |
| Maximum illuminance | $E_{max}$           | 0.00 lx     |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | 1:--- (---) |
| Diversity $U_d$     | $E_{min}/E_{max}$   | 1:--- (---) |

Type No.\Make

|   |      |                |                                        |
|---|------|----------------|----------------------------------------|
| 1 | 33 x | Thorn          |                                        |
|   |      | Order No.      | : 96700037                             |
|   |      | Luminaire name | : CESAR AMP S DWN 1L927WB HF ANT [STD] |
|   |      | Equipment      | : 1 x CESA_AMP_927 9 W / 430 lm        |

2.1 Summary, Exterior 1

2.1.5 Result overview, House 2 - South



General

|                                   |                           |
|-----------------------------------|---------------------------|
| Calculation algorithm used        | Average indirect fraction |
| Height (phot centre) [m]:         | 2.29 m                    |
| Maintenance factor                | 0.80                      |
| Total luminous flux               | 14190 lm                  |
| Total power                       | 290.4 W                   |
| Total power per area (2142.24 m²) | 0.14 W/m²                 |

Illuminance

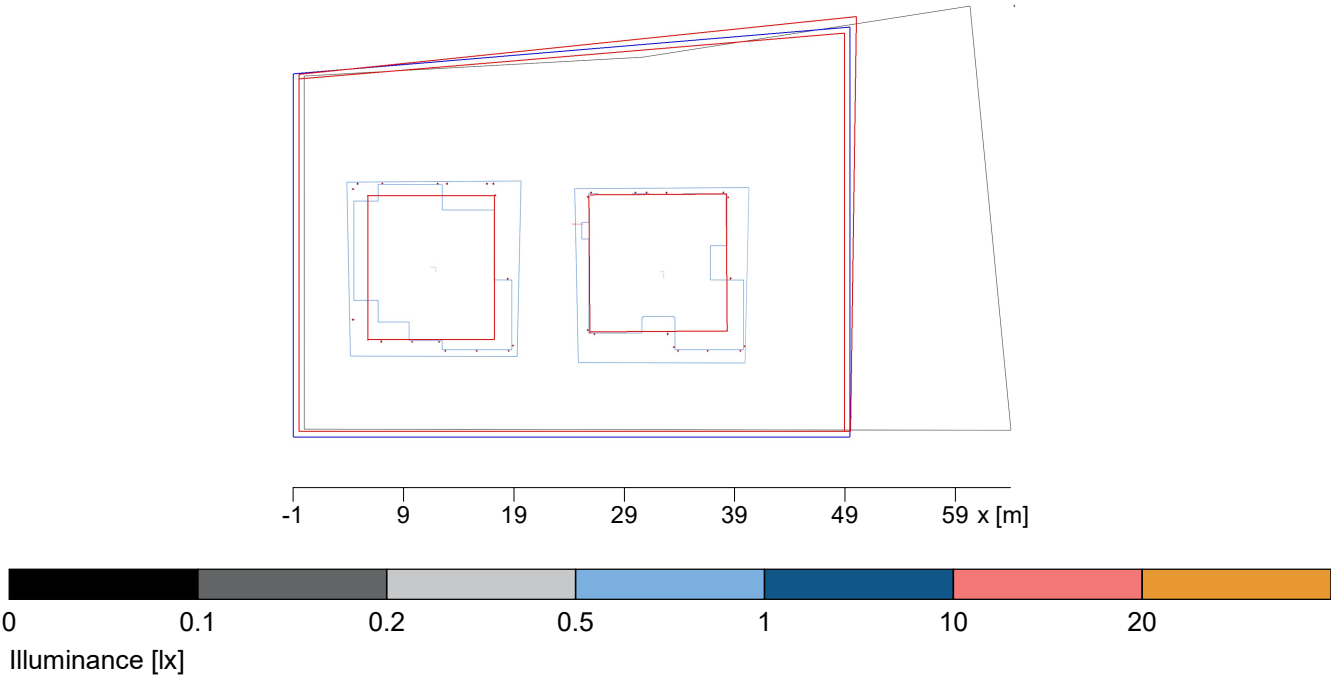
|                     |                     |             |
|---------------------|---------------------|-------------|
| Average illuminance | $\bar{E}_m$         | 0.00 lx     |
| Minimum illuminance | $E_{min}$           | 0.00 lx     |
| Maximum illuminance | $E_{max}$           | 0.00 lx     |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | 1:--- (---) |
| Diversity $U_d$     | $E_{min}/E_{max}$   | 1:--- (---) |

Type No.\Make

|   |      |                |                                        |
|---|------|----------------|----------------------------------------|
| 1 | 33 x | Thorn          |                                        |
|   |      | Order No.      | : 96700037                             |
|   |      | Luminaire name | : CESAR AMP S DWN 1L927WB HF ANT [STD] |
|   |      | Equipment      | : 1 x CESA_AMP_927 9 W / 430 lm        |

2.1 Summary, Exterior 1

2.1.6 Result overview, House 2 - West



General

|                                   |                           |
|-----------------------------------|---------------------------|
| Calculation algorithm used        | Average indirect fraction |
| Height (phot centre) [m]:         | 2.29 m                    |
| Maintenance factor                | 0.80                      |
| Total luminous flux               | 14190 lm                  |
| Total power                       | 290.4 W                   |
| Total power per area (2142.24 m²) | 0.14 W/m²                 |

Illuminance

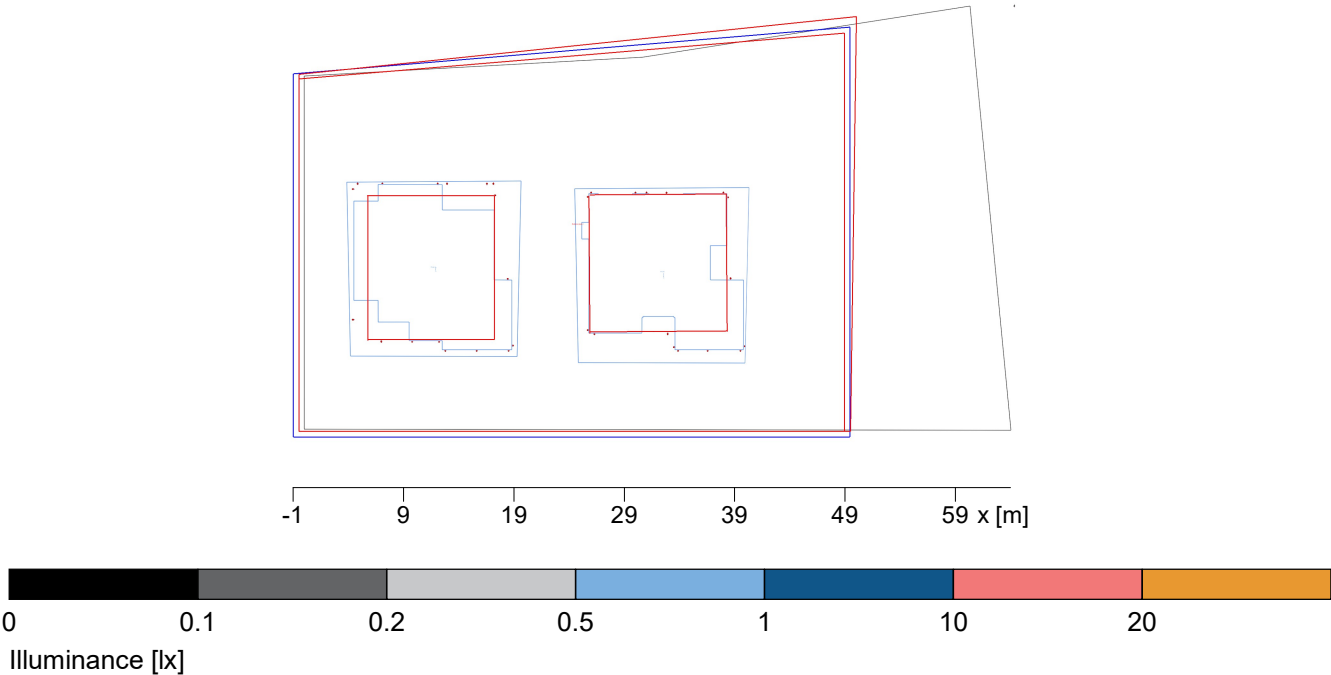
|                     |                     |             |
|---------------------|---------------------|-------------|
| Average illuminance | $\bar{E}_m$         | 0.00 lx     |
| Minimum illuminance | $E_{min}$           | 0.00 lx     |
| Maximum illuminance | $E_{max}$           | 0.00 lx     |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | 1:--- (---) |
| Diversity $U_d$     | $E_{min}/E_{max}$   | 1:--- (---) |

Type No.\Make

|   |      |                |                                        |
|---|------|----------------|----------------------------------------|
| 1 | 33 x | Thorn          |                                        |
|   |      | Order No.      | : 96700037                             |
|   |      | Luminaire name | : CESAR AMP S DWN 1L927WB HF ANT [STD] |
|   |      | Equipment      | : 1 x CESA_AMP_927 9 W / 430 lm        |

2.1 Summary, Exterior 1

2.1.7 Result overview, House 2 - North



General

|                                   |                           |
|-----------------------------------|---------------------------|
| Calculation algorithm used        | Average indirect fraction |
| Height (phot centre) [m]:         | 2.29 m                    |
| Maintenance factor                | 0.80                      |
| Total luminous flux               | 14190 lm                  |
| Total power                       | 290.4 W                   |
| Total power per area (2142.24 m²) | 0.14 W/m²                 |

Illuminance

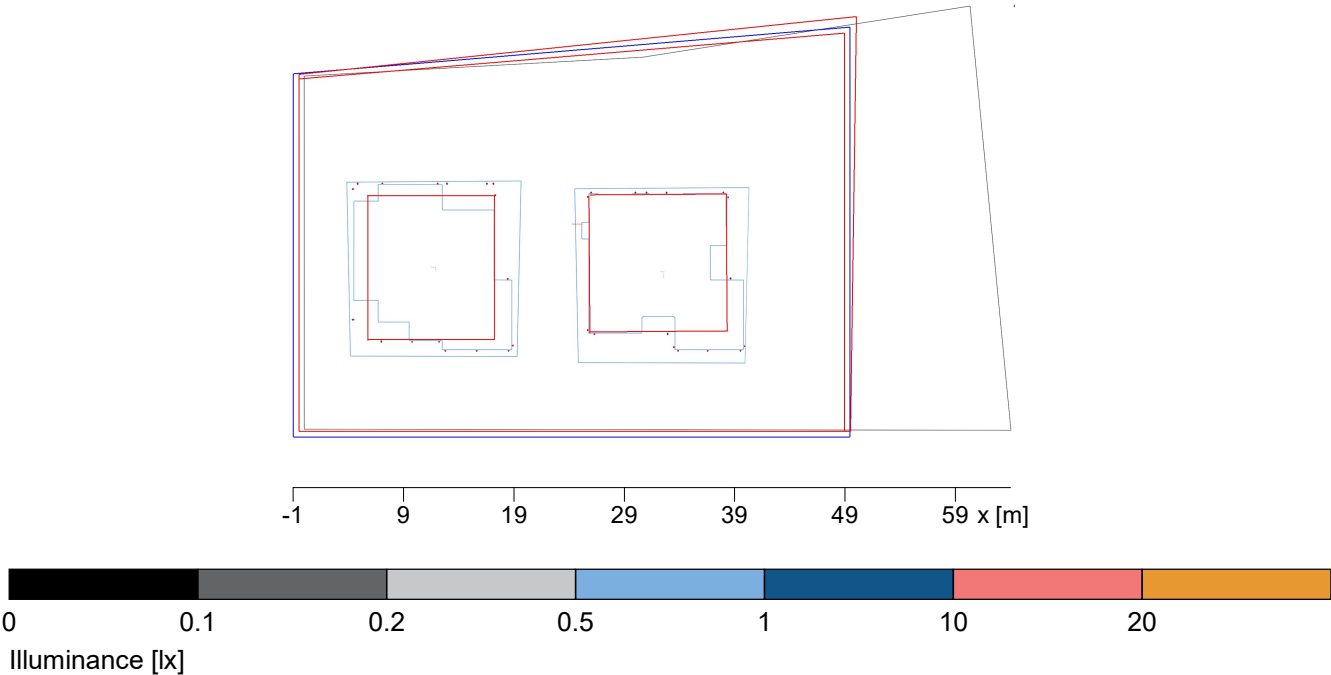
|                     |                     |             |
|---------------------|---------------------|-------------|
| Average illuminance | $\bar{E}_m$         | 0.00 lx     |
| Minimum illuminance | $E_{min}$           | 0.00 lx     |
| Maximum illuminance | $E_{max}$           | 0.00 lx     |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | 1:--- (---) |
| Diversity $U_d$     | $E_{min}/E_{max}$   | 1:--- (---) |

Type No.\Make

|   |      |                |                                        |
|---|------|----------------|----------------------------------------|
| 1 | 33 x | Thorn          |                                        |
|   |      | Order No.      | : 96700037                             |
|   |      | Luminaire name | : CESAR AMP S DWN 1L927WB HF ANT [STD] |
|   |      | Equipment      | : 1 x CESA_AMP_927 9 W / 430 lm        |

2.1 Summary, Exterior 1

2.1.8 Result overview, House 2 - East



General

|                                   |                           |
|-----------------------------------|---------------------------|
| Calculation algorithm used        | Average indirect fraction |
| Height (phot centre) [m]:         | 2.29 m                    |
| Maintenance factor                | 0.80                      |
| Total luminous flux               | 14190 lm                  |
| Total power                       | 290.4 W                   |
| Total power per area (2142.24 m²) | 0.14 W/m²                 |

Illuminance

|                     |                     |             |
|---------------------|---------------------|-------------|
| Average illuminance | $\bar{E}_m$         | 0.00 lx     |
| Minimum illuminance | $E_{min}$           | 0.00 lx     |
| Maximum illuminance | $E_{max}$           | 0.00 lx     |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | 1:--- (---) |
| Diversity $U_d$     | $E_{min}/E_{max}$   | 1:--- (---) |

Type No.\Make

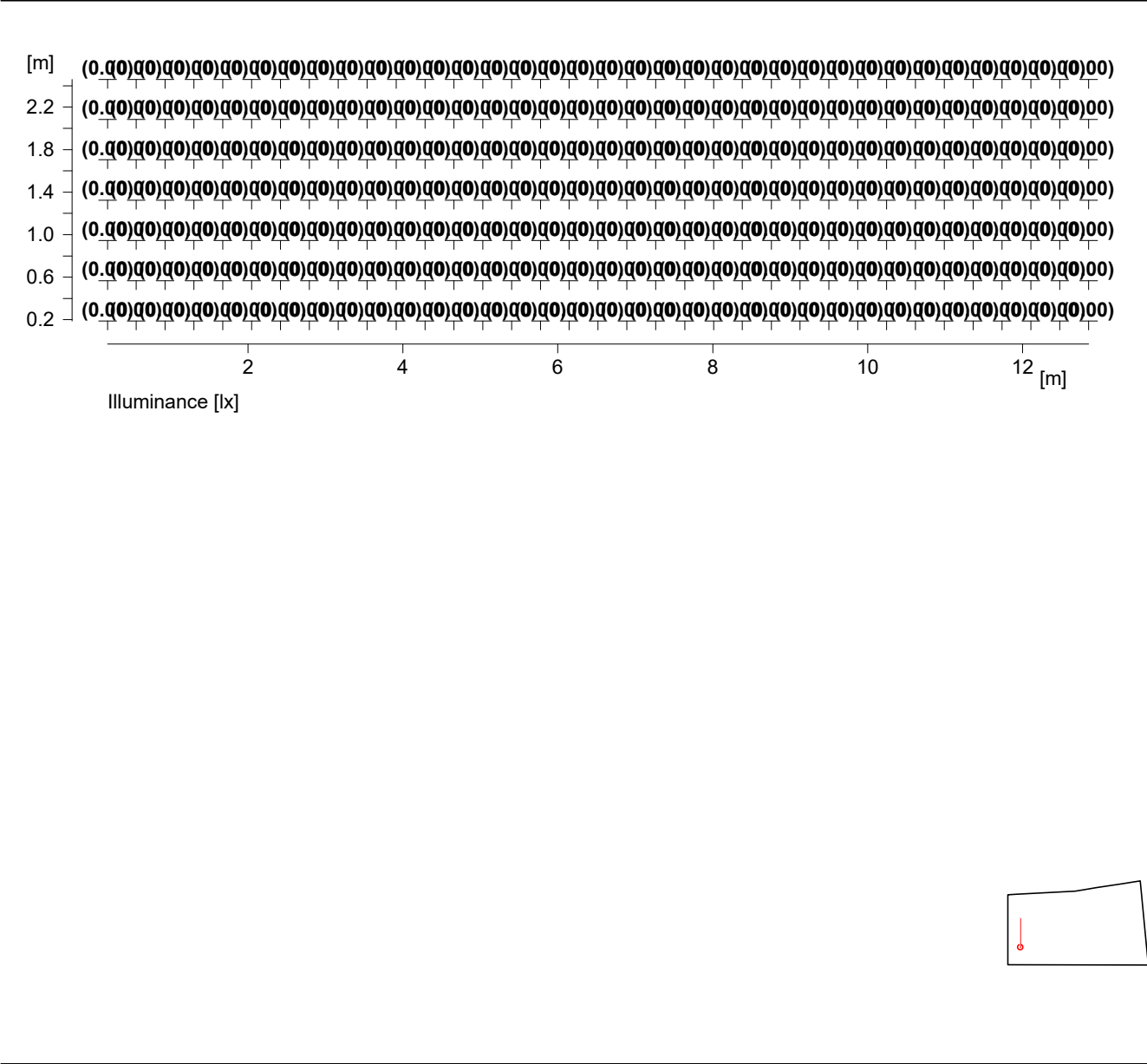
|        |                |                                        |
|--------|----------------|----------------------------------------|
| 1 33 x | Thorn          |                                        |
|        | Order No.      | : 96700037                             |
|        | Luminaire name | : CESAR AMP S DWN 1L927WB HF ANT [STD] |
|        | Equipment      | : 1 x CESA_AMP_927 9 W / 430 lm        |



2 Exterior 1

2.2 Calculation results, Exterior 1

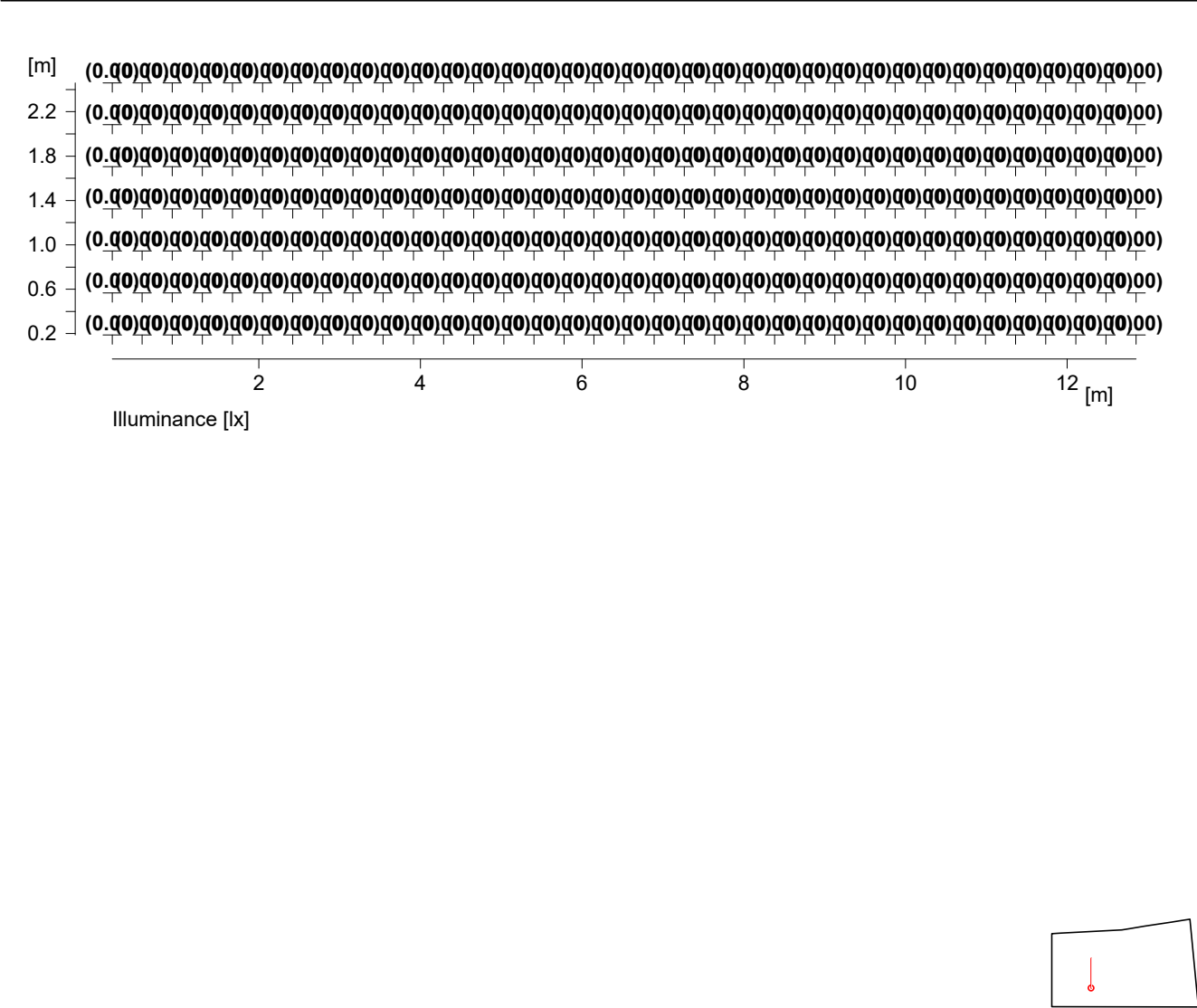
2.2.1 Table, House 1 - East (E)



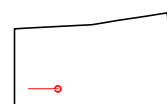
|                     |                     |           |
|---------------------|---------------------|-----------|
| Average illuminance | $\bar{E}_m$         | : 0.00 lx |
| Minimum illuminance | $E_{min}$           | : 0.00 lx |
| Maximum illuminance | $E_{max}$           | : 0.00 lx |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | : ---     |

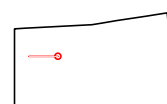
2.2 Calculation results, Exterior 1

2.2.2 Table, House 1 - West (E)



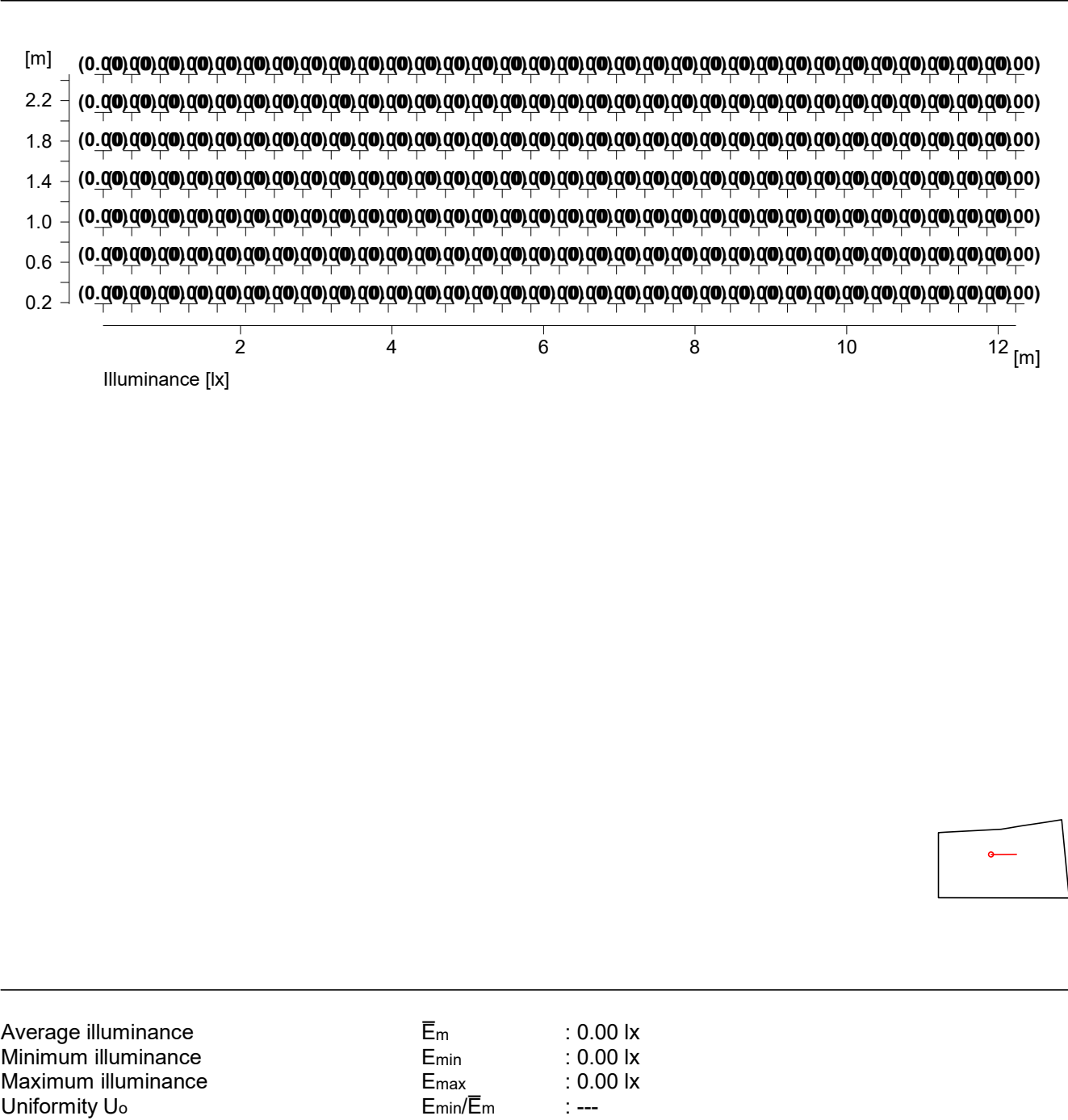
|                     |                     |           |
|---------------------|---------------------|-----------|
| Average illuminance | $\bar{E}_m$         | : 0.00 lx |
| Minimum illuminance | $E_{min}$           | : 0.00 lx |
| Maximum illuminance | $E_{max}$           | : 0.00 lx |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | : ---     |

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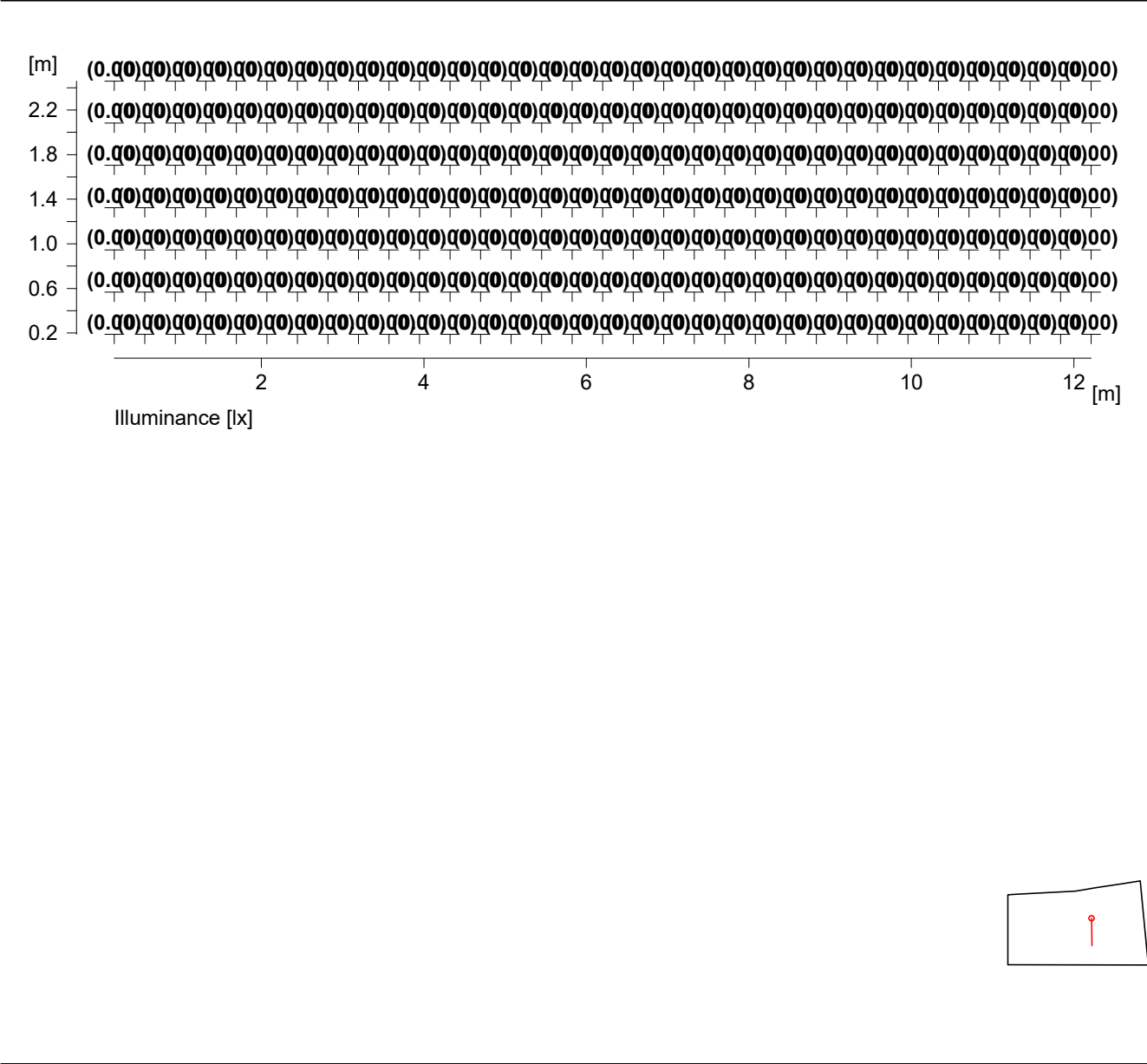
2.2 Calculation results, Exterior 1

2.2.5 Table, House 2 - South (E)

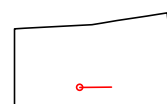


2.2 Calculation results, Exterior 1

2.2.6 Table, House 2 - West (E)

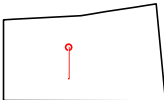
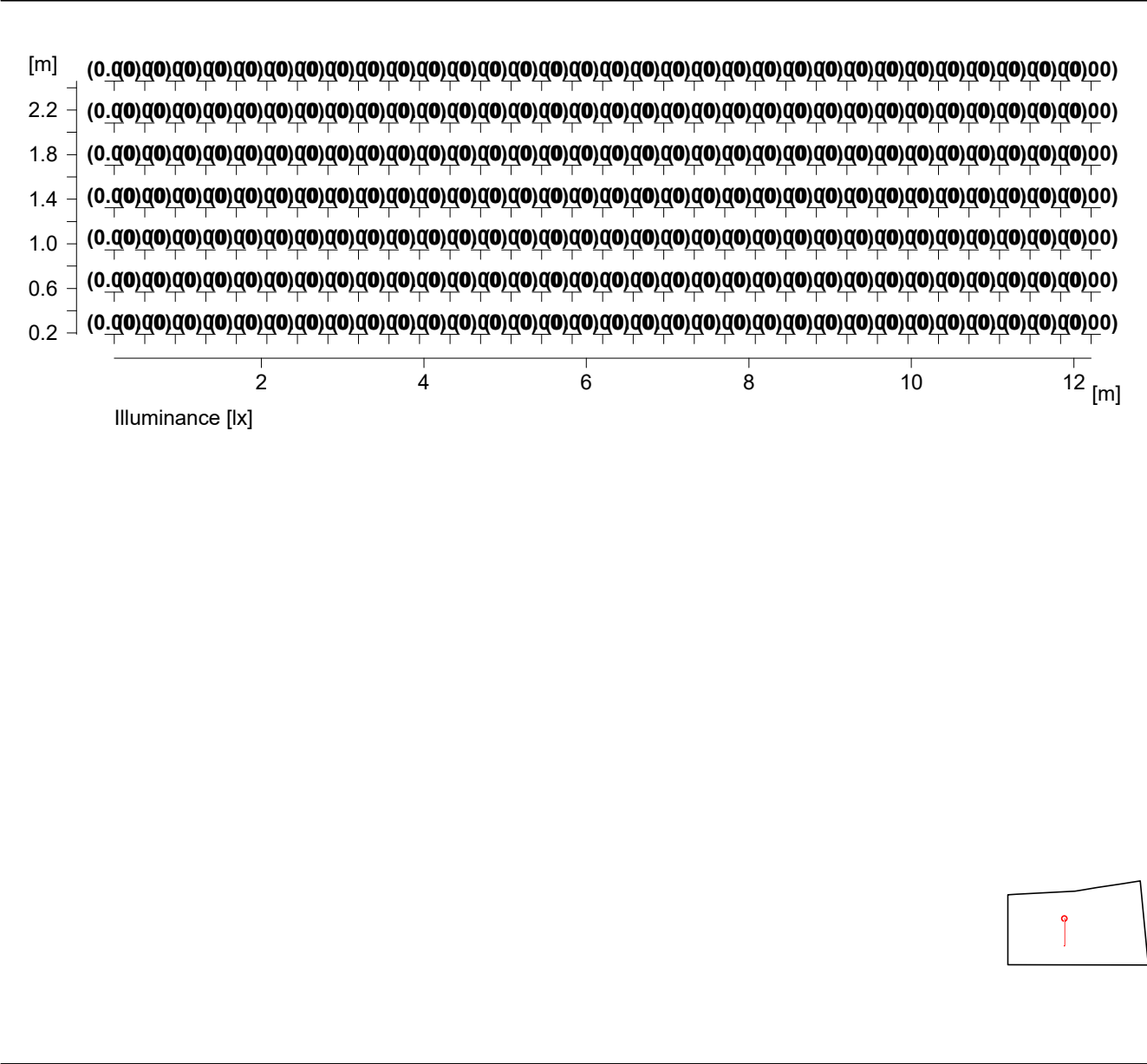


|                     |                     |           |
|---------------------|---------------------|-----------|
| Average illuminance | $\bar{E}_m$         | : 0.00 lx |
| Minimum illuminance | $E_{min}$           | : 0.00 lx |
| Maximum illuminance | $E_{max}$           | : 0.00 lx |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | : ---     |

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2.2 Calculation results, Exterior 1

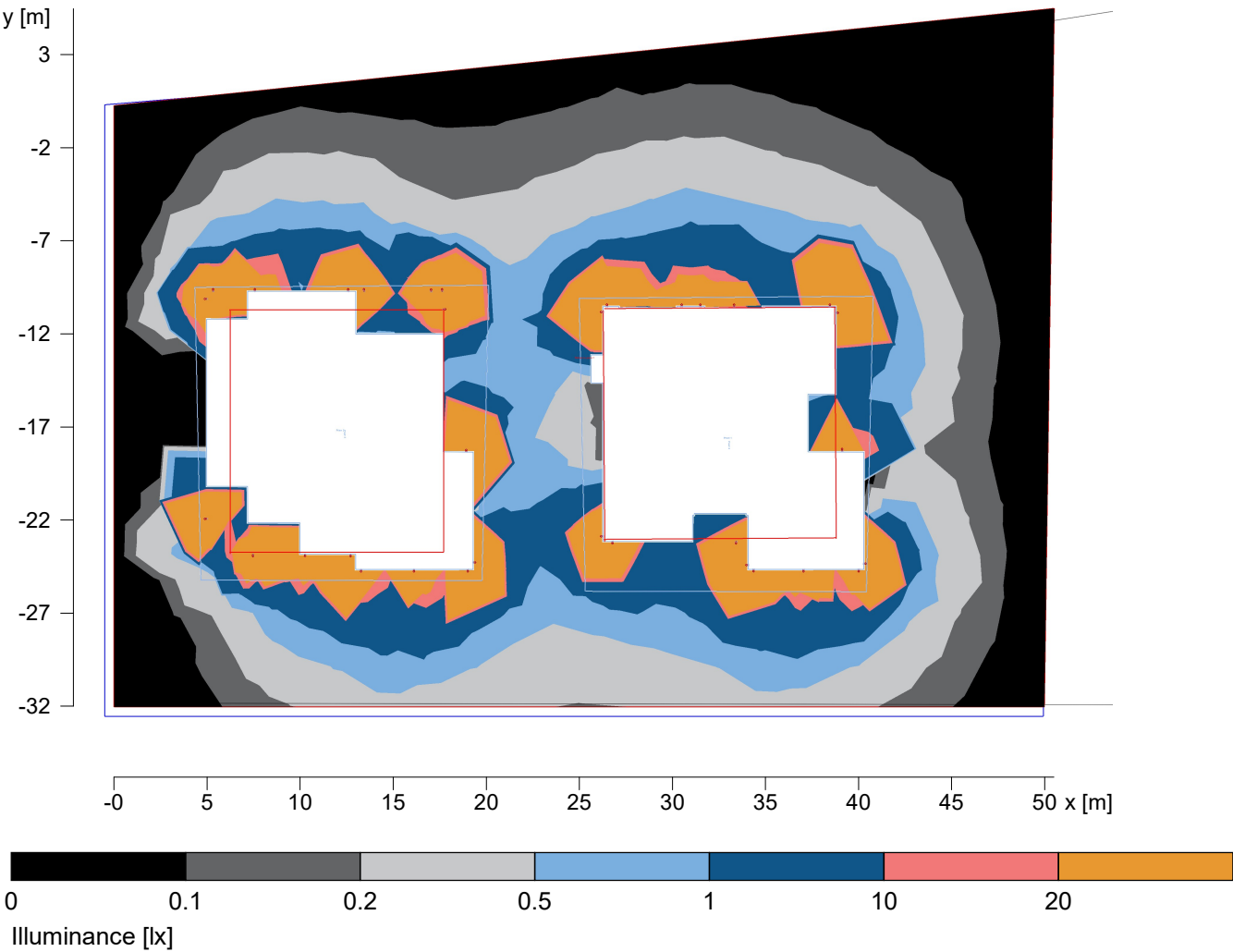
2.2.8 Table, House 2 - East (E)



|                     |                     |           |
|---------------------|---------------------|-----------|
| Average illuminance | $\bar{E}_m$         | : 0.00 lx |
| Minimum illuminance | $E_{min}$           | : 0.00 lx |
| Maximum illuminance | $E_{max}$           | : 0.00 lx |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | : ---     |

2.2 Calculation results, Exterior 1

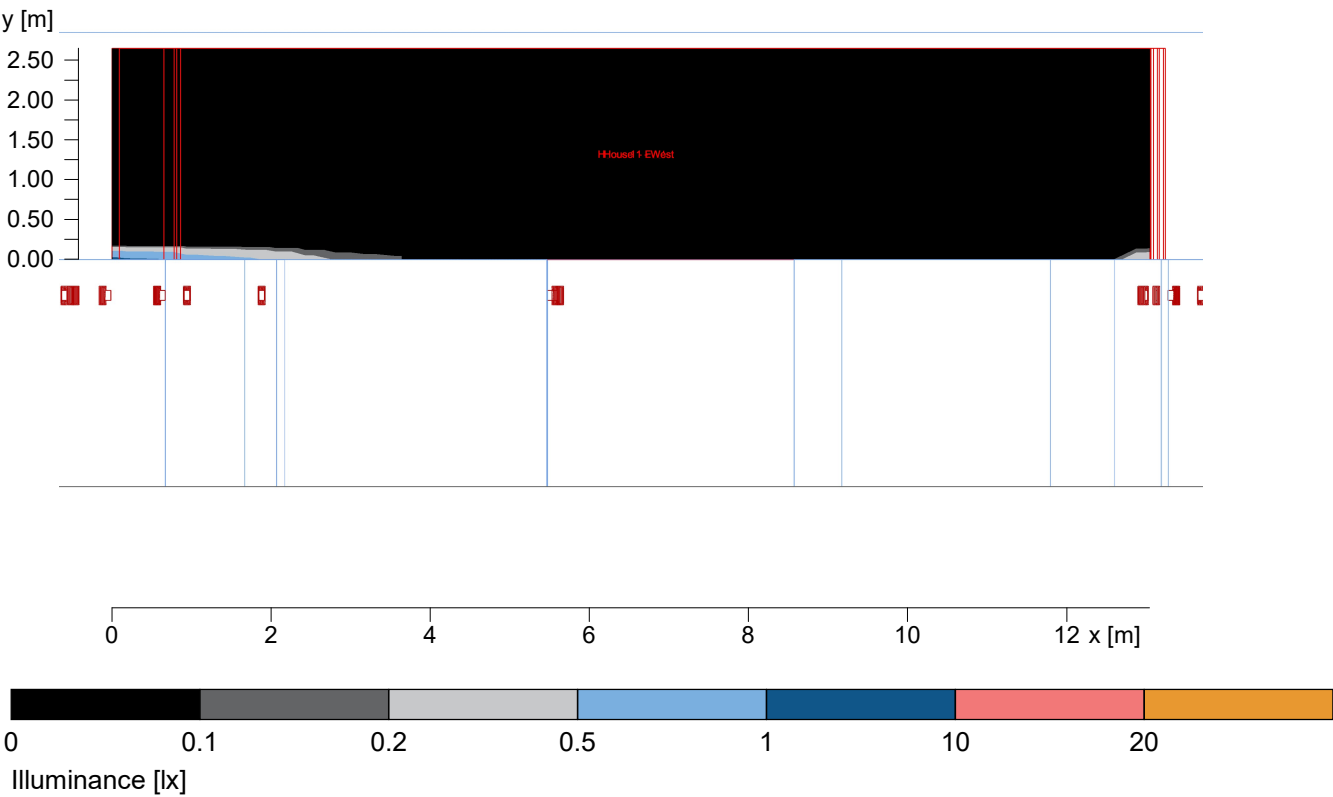
2.2.9 Pseudo colours, Reference plane 0.1 (E)



|                        |                     |                      |
|------------------------|---------------------|----------------------|
| Height reference plane |                     | : 0.00 m             |
| Average illuminance    | $\bar{E}_m$         | : 15.2 lx            |
| Minimum illuminance    | $E_{min}$           | : 0.00 lx            |
| Maximum illuminance    | $E_{max}$           | : 279 lx             |
| Uniformity $U_o$       | $E_{min}/\bar{E}_m$ | : 1 : 3059.95 (0.00) |

2.2 Calculation results, Exterior 1

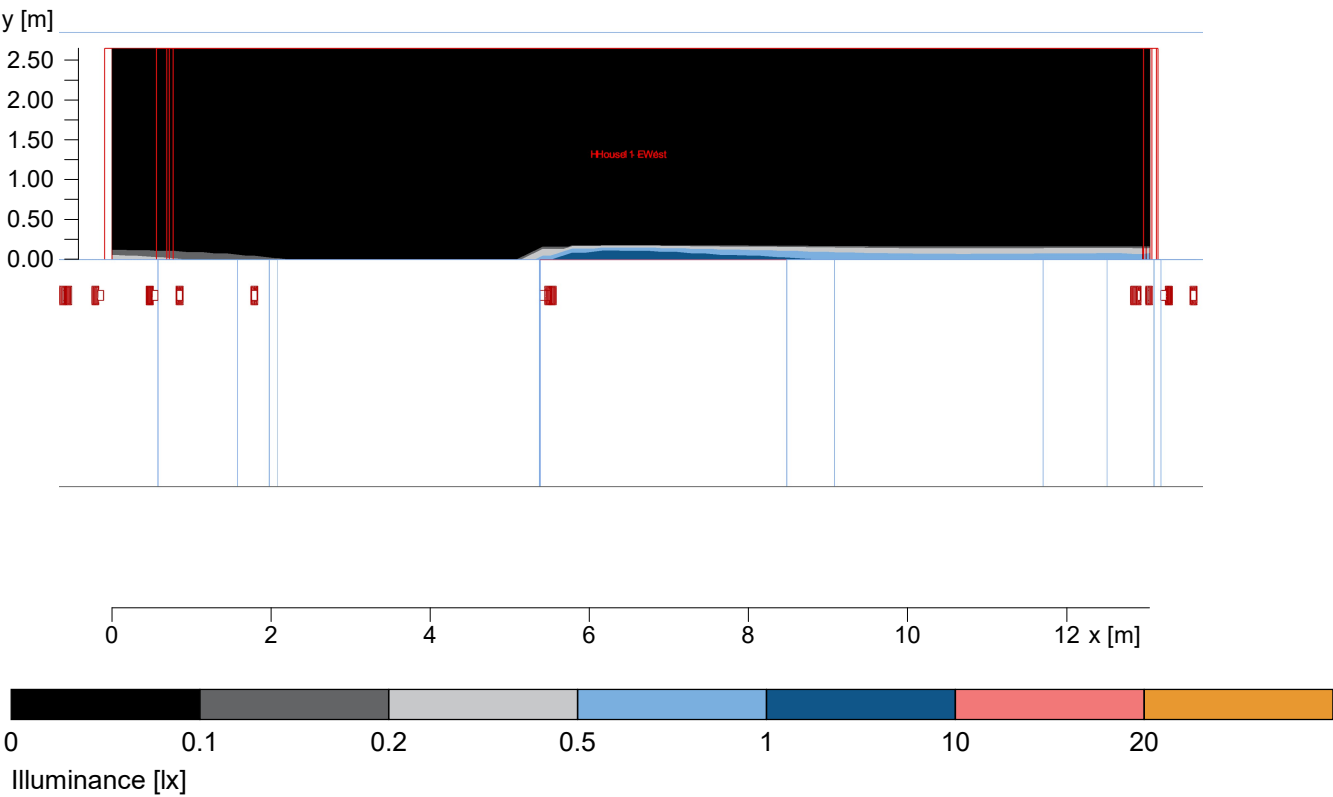
2.2.10 Pseudo colours, House 1 - East (E)



|                     |                     |           |
|---------------------|---------------------|-----------|
| Average illuminance | $\bar{E}_m$         | : 0.00 lx |
| Minimum illuminance | $E_{min}$           | : 0.00 lx |
| Maximum illuminance | $E_{max}$           | : 0.00 lx |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | : ---     |

2.2 Calculation results, Exterior 1

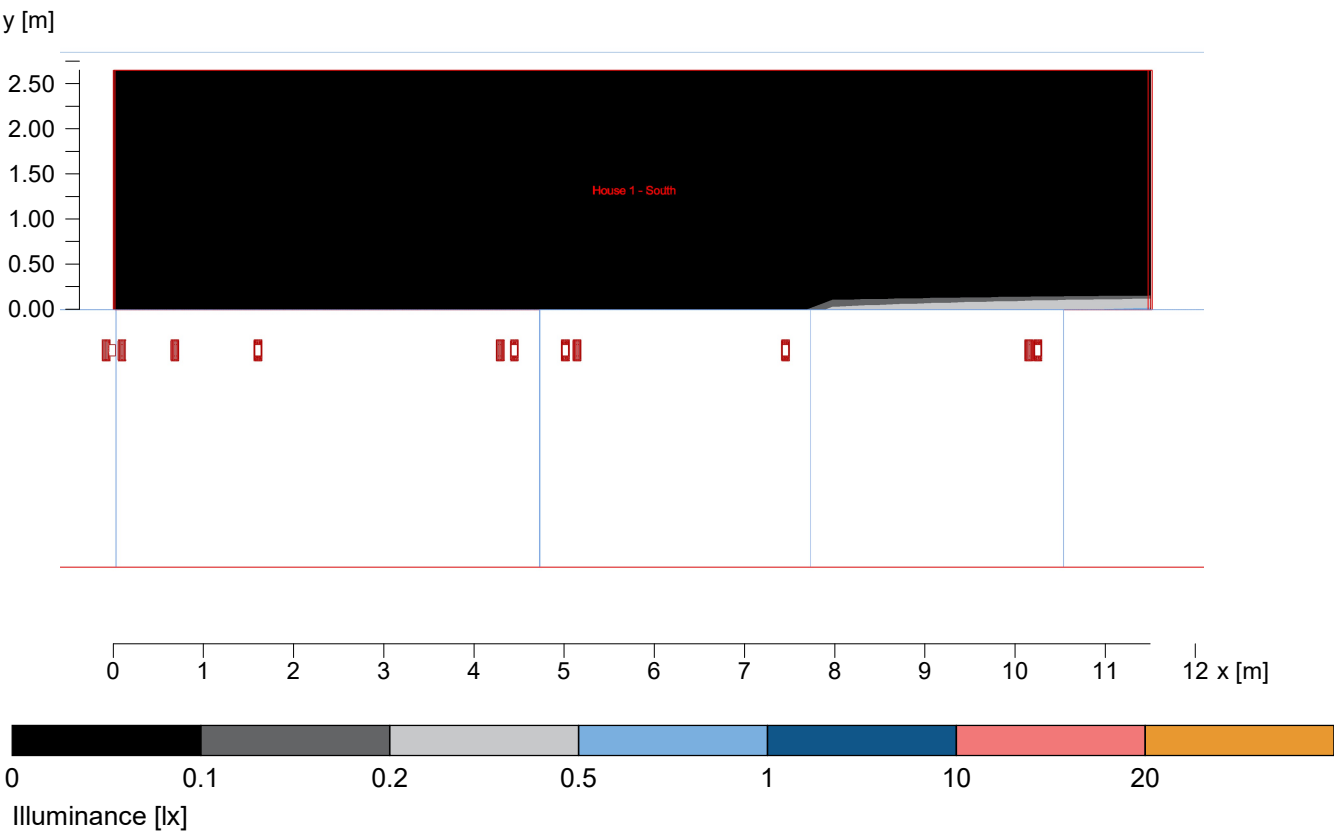
2.2.11 Pseudo colours, House 1 - West (E)



|                     |                     |           |
|---------------------|---------------------|-----------|
| Average illuminance | $\bar{E}_m$         | : 0.00 lx |
| Minimum illuminance | $E_{min}$           | : 0.00 lx |
| Maximum illuminance | $E_{max}$           | : 0.00 lx |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | : ---     |

2.2 Calculation results, Exterior 1

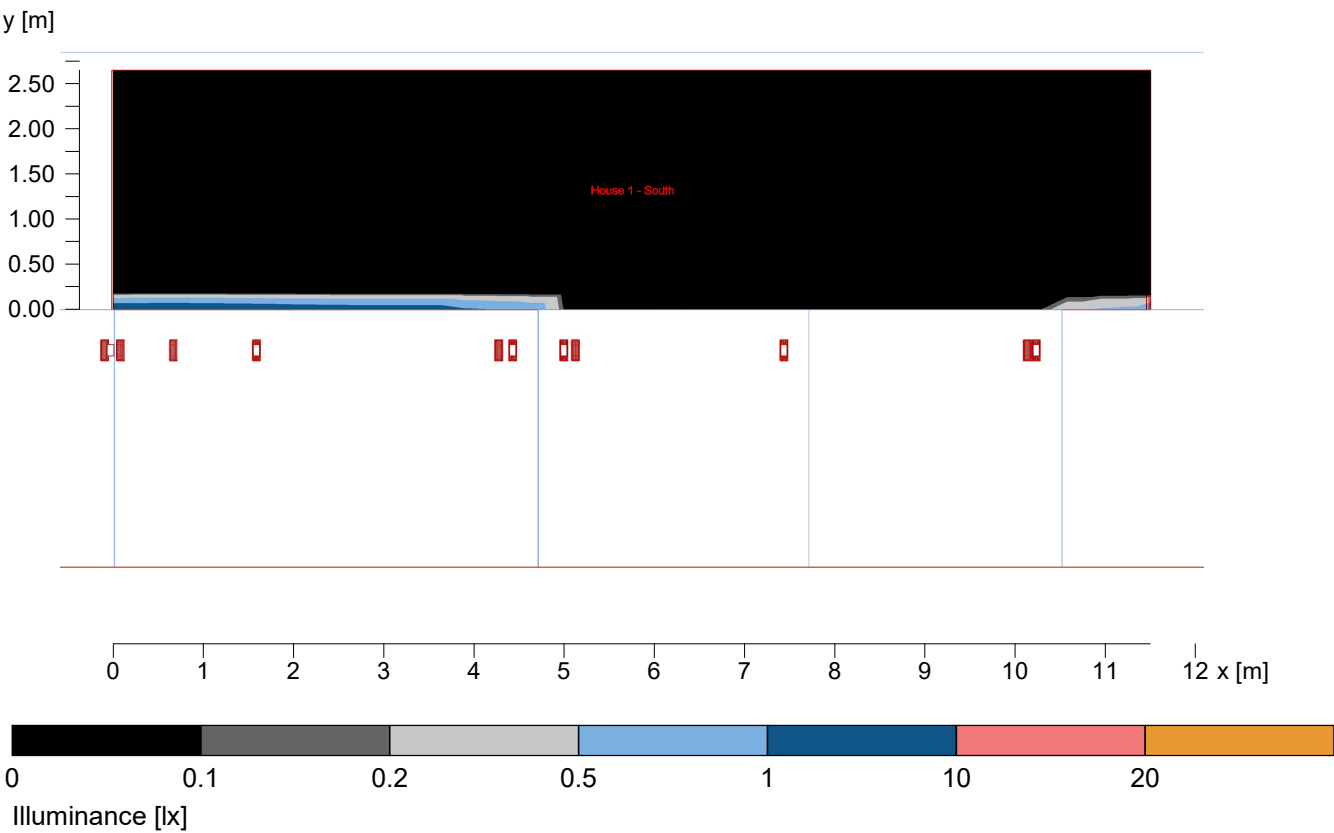
2.2.12 Pseudo colours, House 1 - North (E)



|                     |                     |           |
|---------------------|---------------------|-----------|
| Average illuminance | $\bar{E}_m$         | : 0.00 lx |
| Minimum illuminance | $E_{min}$           | : 0.00 lx |
| Maximum illuminance | $E_{max}$           | : 0.00 lx |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | : ---     |

2.2 Calculation results, Exterior 1

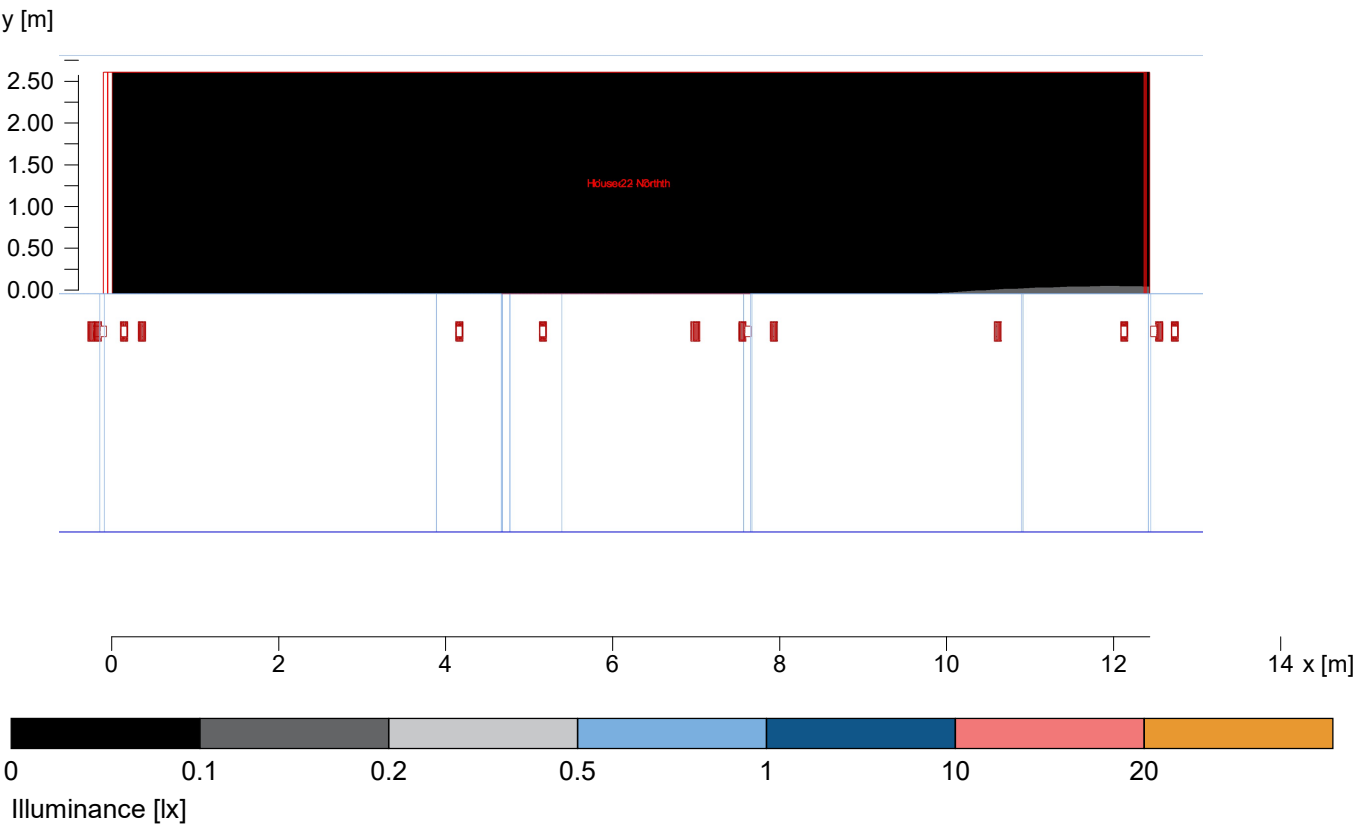
2.2.13 Pseudo colours, House 1 - South (E)



|                     |                     |           |
|---------------------|---------------------|-----------|
| Average illuminance | $\bar{E}_m$         | : 0.00 lx |
| Minimum illuminance | $E_{min}$           | : 0.00 lx |
| Maximum illuminance | $E_{max}$           | : 0.00 lx |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | : ---     |

2.2 Calculation results, Exterior 1

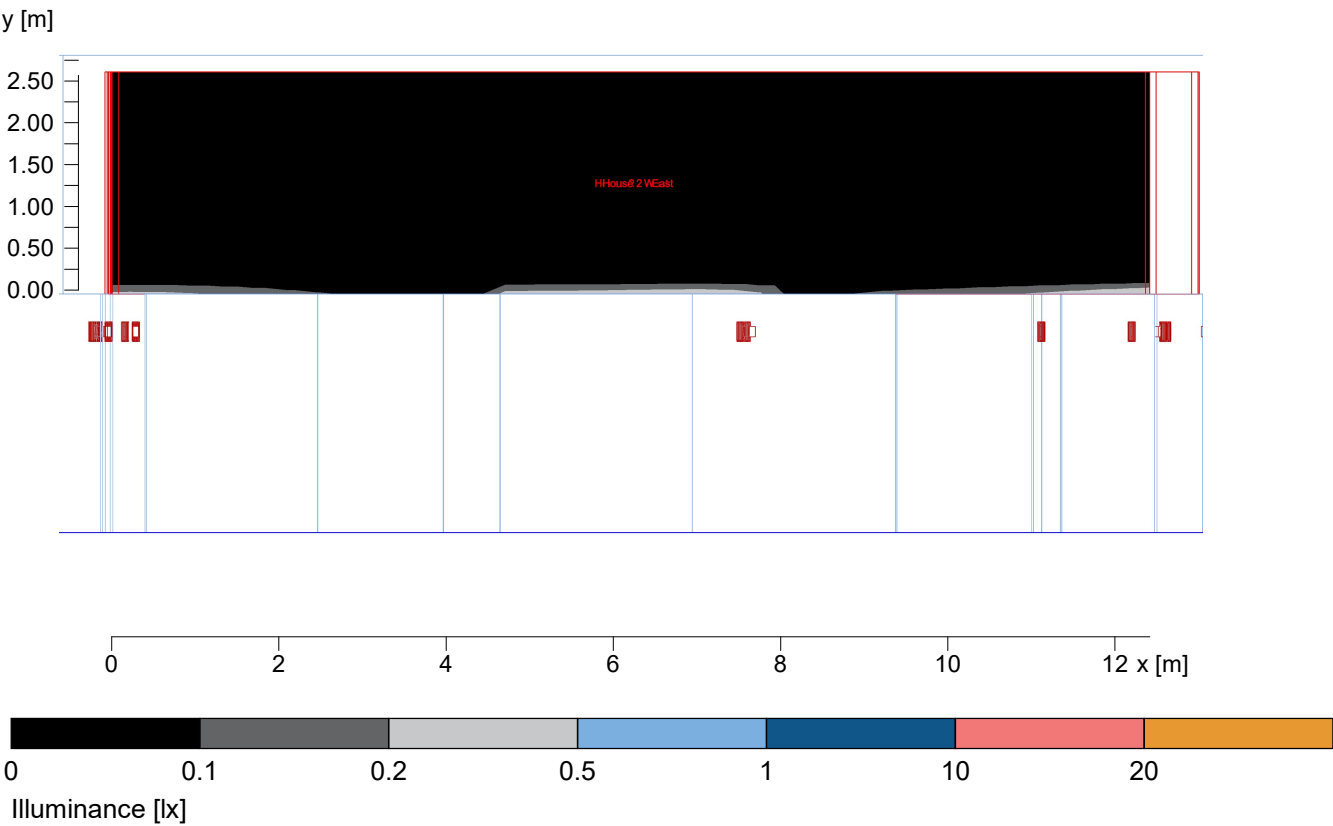
2.2.14 Pseudo colours, House 2 - South (E)



|                     |                     |           |
|---------------------|---------------------|-----------|
| Average illuminance | $\bar{E}_m$         | : 0.00 lx |
| Minimum illuminance | $E_{min}$           | : 0.00 lx |
| Maximum illuminance | $E_{max}$           | : 0.00 lx |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | : ---     |

2.2 Calculation results, Exterior 1

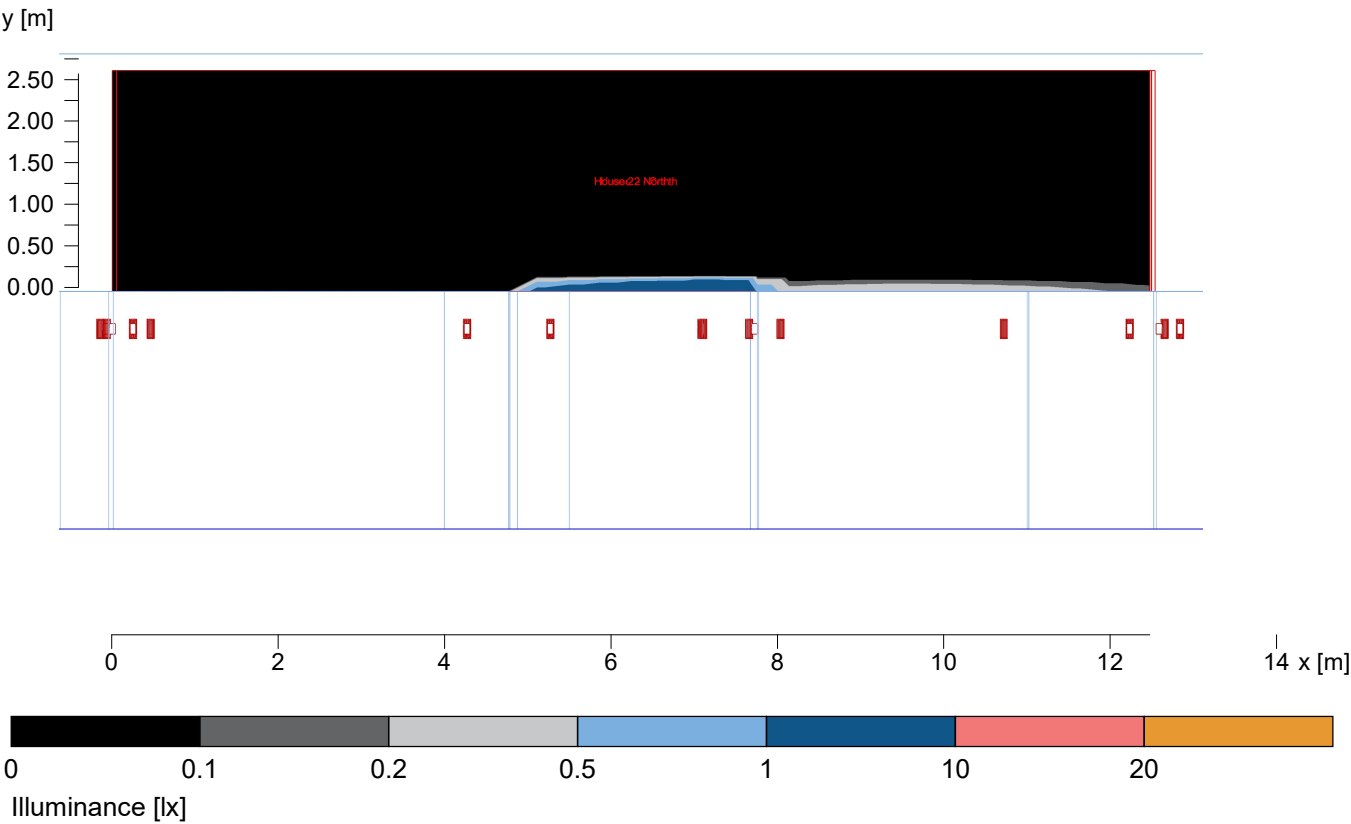
2.2.15 Pseudo colours, House 2 - West (E)



|                     |                     |           |
|---------------------|---------------------|-----------|
| Average illuminance | $\bar{E}_m$         | : 0.00 lx |
| Minimum illuminance | $E_{min}$           | : 0.00 lx |
| Maximum illuminance | $E_{max}$           | : 0.00 lx |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | : ---     |

2.2 Calculation results, Exterior 1

2.2.16 Pseudo colours, House 2 - North (E)

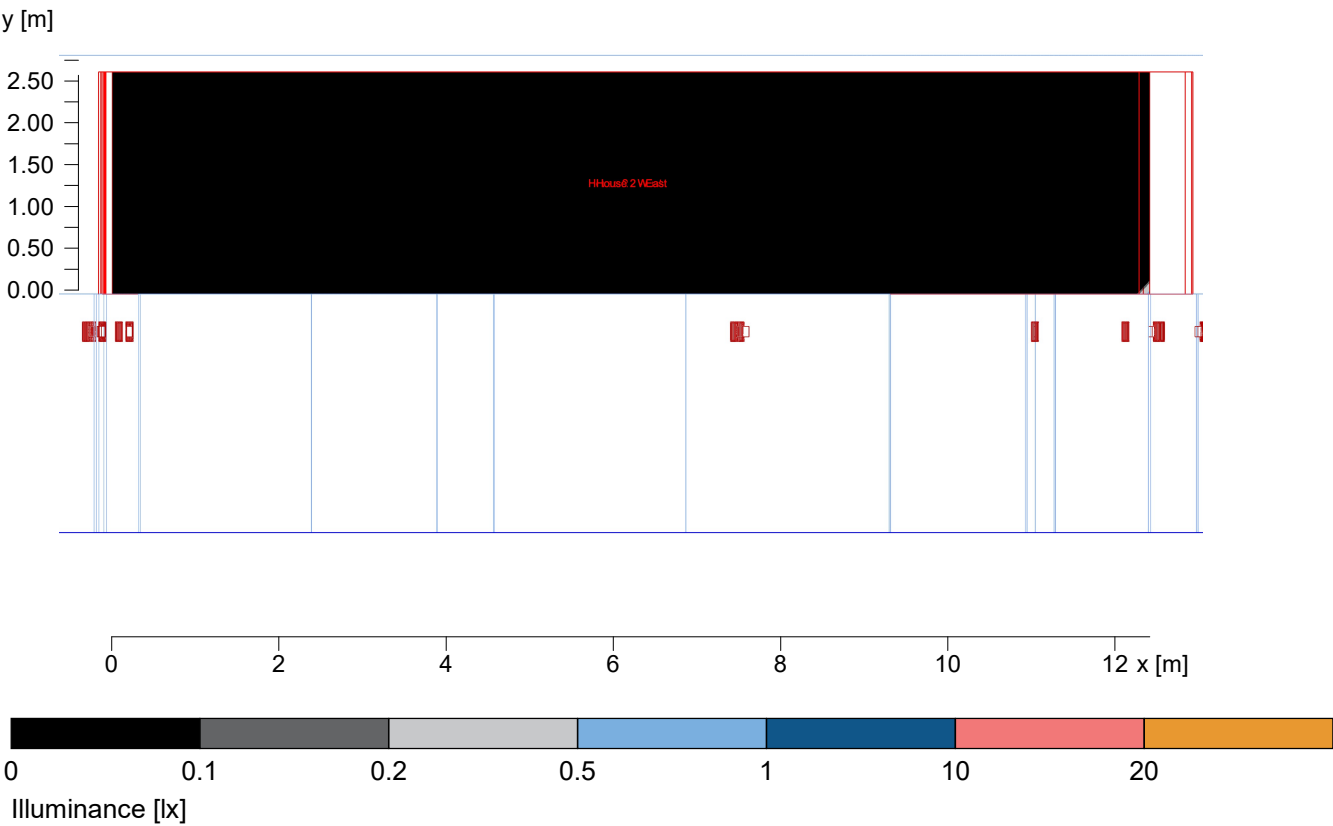


Average illuminance  
Minimum illuminance  
Maximum illuminance  
Uniformity  $U_0$

$\bar{E}_m$  : 0.00 lx  
 $E_{min}$  : 0.00 lx  
 $E_{max}$  : 0.00 lx  
 $E_{min}/\bar{E}_m$  : ---

2.2 Calculation results, Exterior 1

2.2.17 Pseudo colours, House 2 - East (E)



|                     |                     |           |
|---------------------|---------------------|-----------|
| Average illuminance | $\bar{E}_m$         | : 0.00 lx |
| Minimum illuminance | $E_{min}$           | : 0.00 lx |
| Maximum illuminance | $E_{max}$           | : 0.00 lx |
| Uniformity $U_o$    | $E_{min}/\bar{E}_m$ | : ---     |