

## External Lighting

Installation : Lighting Calcs

Project number : SY0326-74 Markfield Care Home

Customer :

Processed by : EP

Date : 14.04.2026

Project description:

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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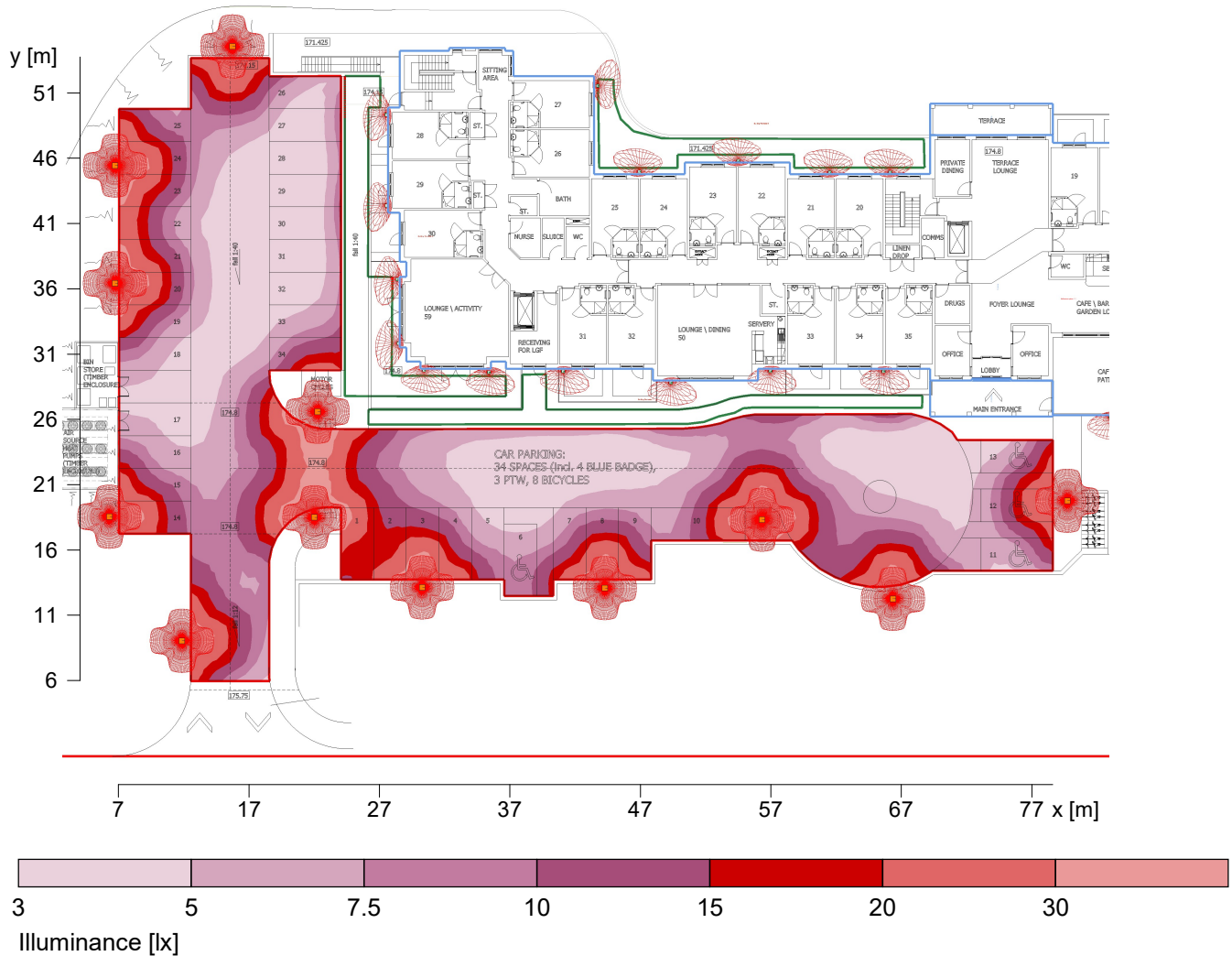
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## 1 Exterior 1

### 1.1 Calculation results, Exterior 1

#### 1.1.1 Pseudo colours, Car Park (E)

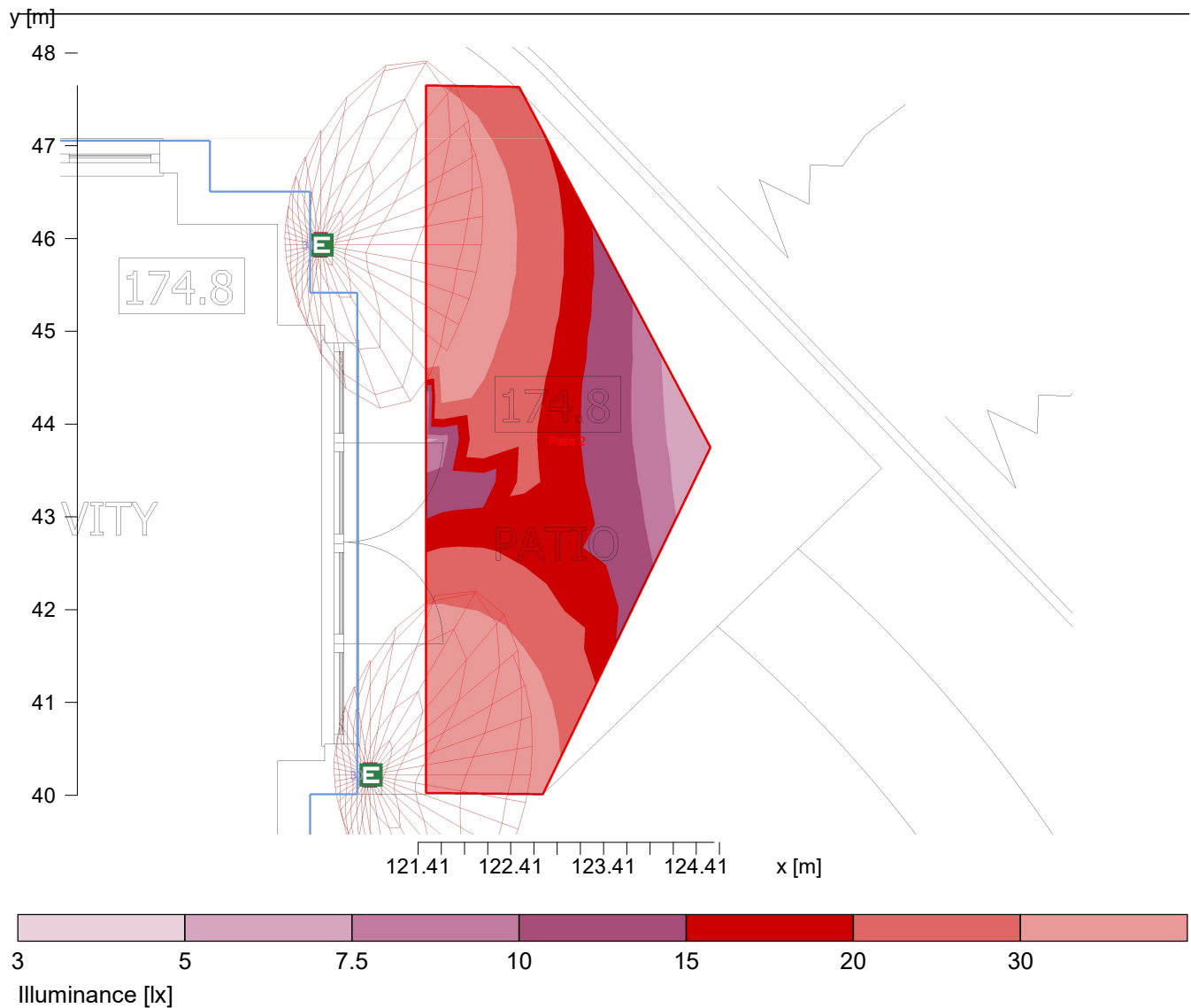


|                        |                                       |
|------------------------|---------------------------------------|
| Height reference plane | : 0.00 m                              |
| Average illuminance    | $\bar{E}_m$ : 10.9 lx                 |
| Minimum illuminance    | $E_{min}$ : 2.8 lx                    |
| Maximum illuminance    | $E_{max}$ : 45.3 lx                   |
| Uniformity $U_o$       | $E_{min}/\bar{E}_m$ : 1 : 3.94 (0.25) |

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## 1.1 Calculation results, Exterior 1

### 1.1.2 Pseudo colours, Patio 2 (E)

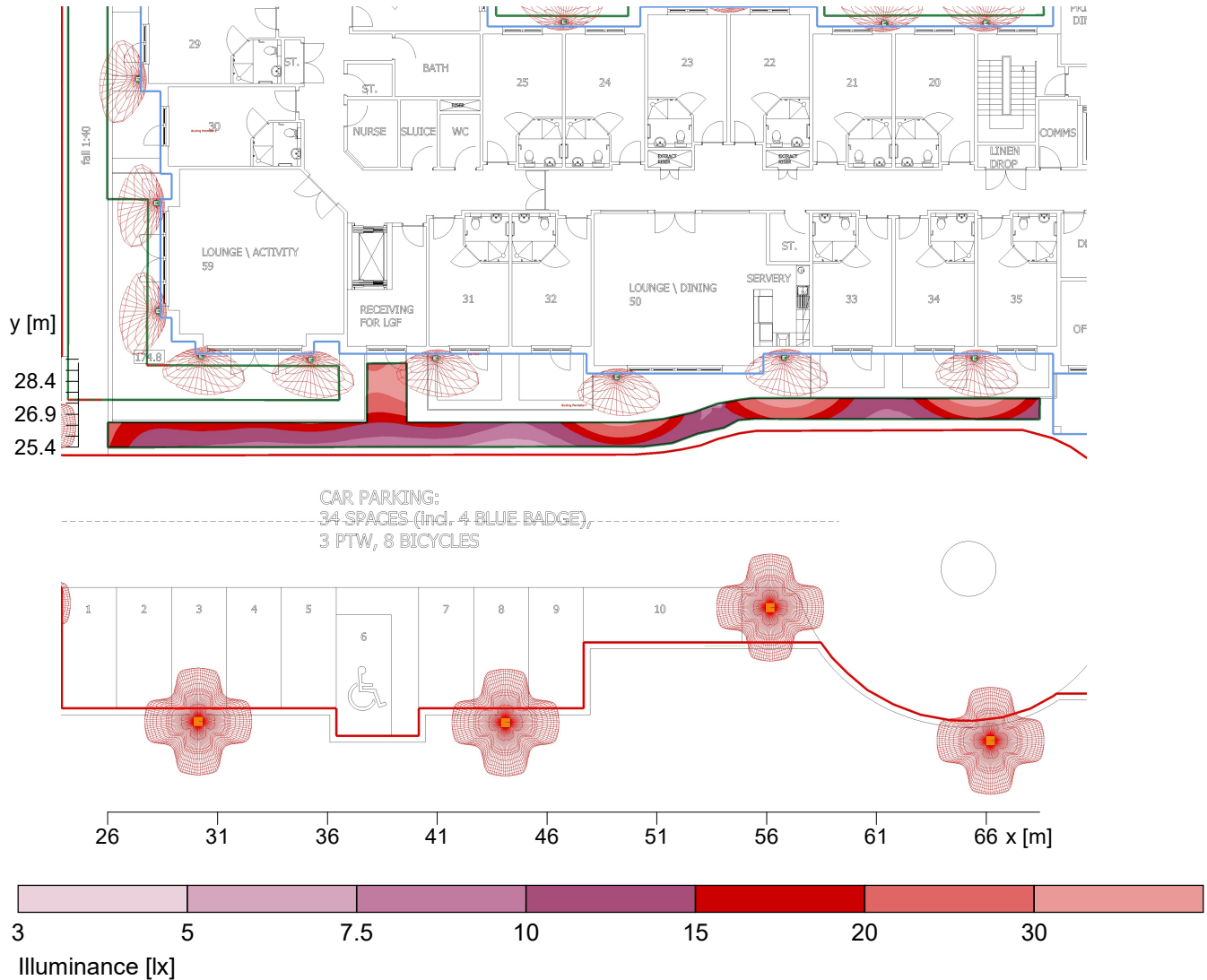


|                        |                     |                   |
|------------------------|---------------------|-------------------|
| Height reference plane |                     | : 0.00 m          |
| Average illuminance    | $\bar{E}_m$         | : 25.3 lx         |
| Minimum illuminance    | $E_{min}$           | : 6 lx            |
| Maximum illuminance    | $E_{max}$           | : 59.6 lx         |
| Uniformity $U_o$       | $E_{min}/\bar{E}_m$ | : 1 : 4.19 (0.24) |

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## 1.1 Calculation results, Exterior 1

### 1.1.3 Pseudo colours, Building Perimeter 1 (E)

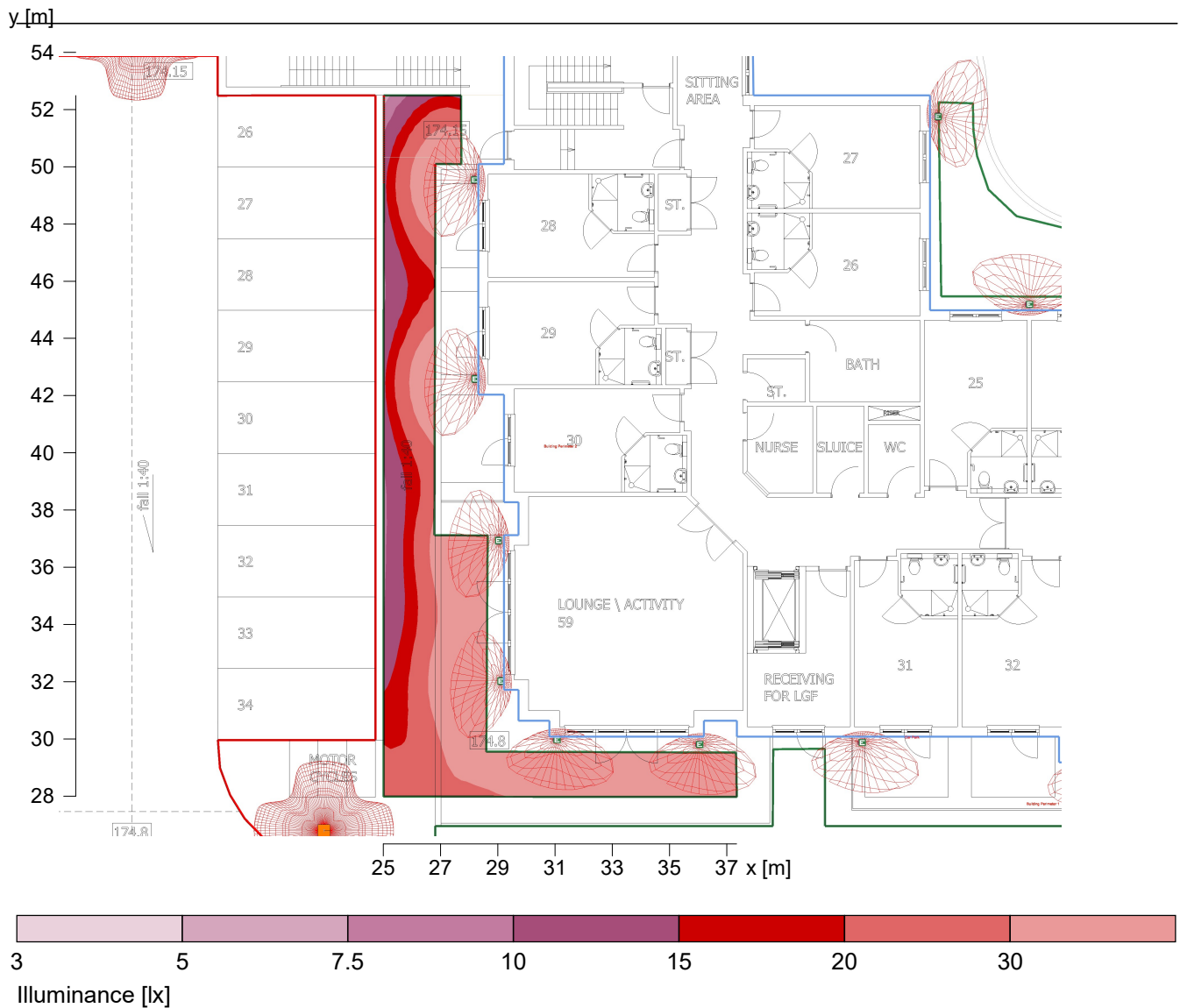


|                        |                                       |
|------------------------|---------------------------------------|
| Height reference plane | : 0.00 m                              |
| Average illuminance    | $\bar{E}_m$ : 16.6 lx                 |
| Minimum illuminance    | $E_{min}$ : 6.7 lx                    |
| Maximum illuminance    | $E_{max}$ : 44.6 lx                   |
| Uniformity $U_o$       | $E_{min}/\bar{E}_m$ : 1 : 2.49 (0.40) |

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## 1.1 Calculation results, Exterior 1

### 1.1.4 Pseudo colours, Building Perimeter 2 (E)

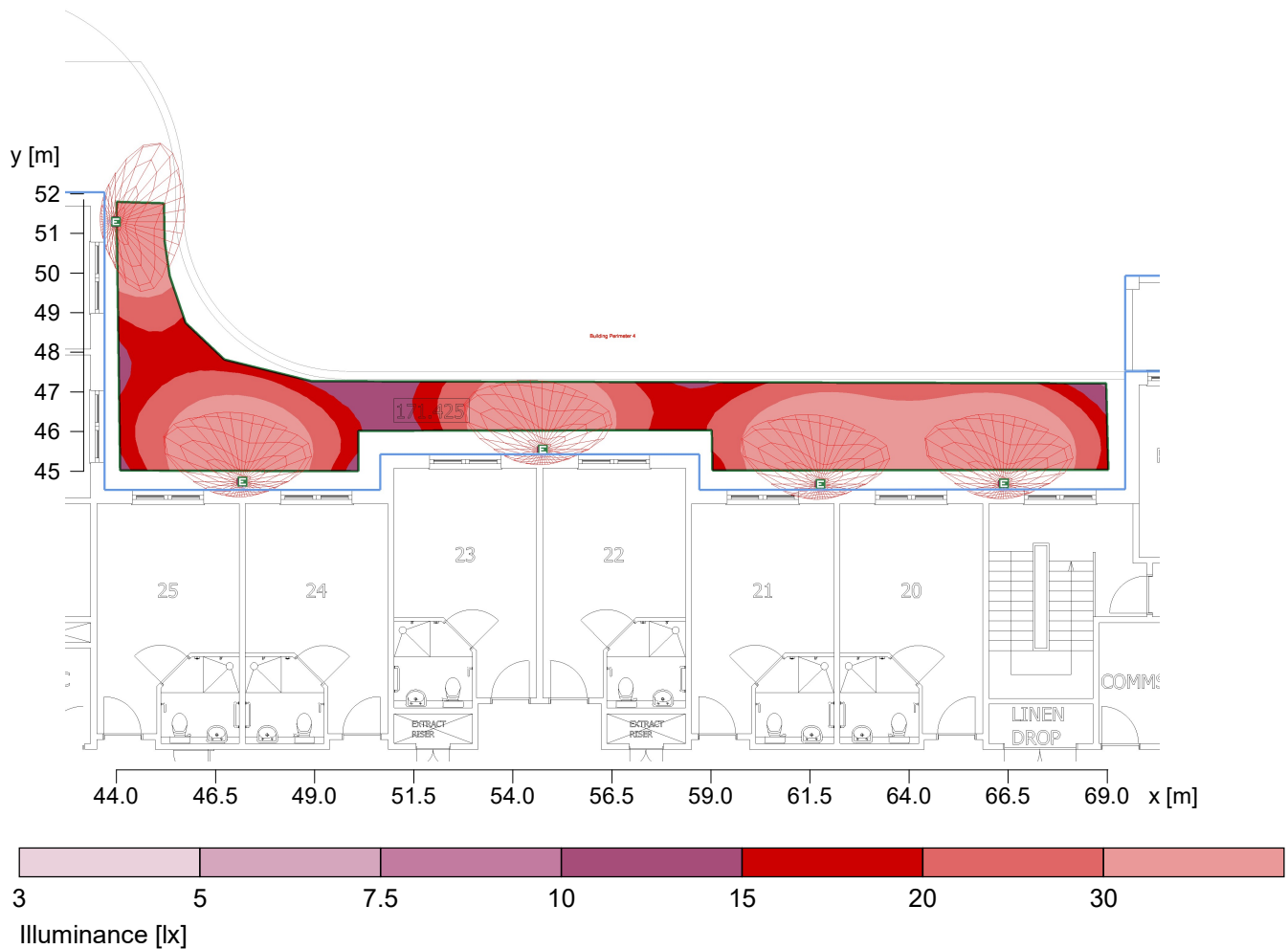


|                        |                     |                   |
|------------------------|---------------------|-------------------|
| Height reference plane |                     | : 0.00 m          |
| Average illuminance    | $\bar{E}_m$         | : 31.1 lx         |
| Minimum illuminance    | $E_{min}$           | : 8.2 lx          |
| Maximum illuminance    | $E_{max}$           | : 69.4 lx         |
| Uniformity $U_o$       | $E_{min}/\bar{E}_m$ | : 1 : 3.81 (0.26) |

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## 1.1 Calculation results, Exterior 1

### 1.1.5 Pseudo colours, Building Perimeter 4 (E)



|                        |                     |                   |
|------------------------|---------------------|-------------------|
| Height reference plane |                     | : 0.00 m          |
| Average illuminance    | $\bar{E}_m$         | : 33.2 lx         |
| Minimum illuminance    | $E_{min}$           | : 10.2 lx         |
| Maximum illuminance    | $E_{max}$           | : 68.8 lx         |
| Uniformity $U_o$       | $E_{min}/\bar{E}_m$ | : 1 : 3.25 (0.31) |