



RIGHT OF LIGHT  
CONSULTING  
Chartered Surveyors

**Right of Light Consulting**

Burley House  
15-17 High Street  
Rayleigh  
Essex  
SS6 7EW

**TEL** 0800 197 4836

**E-MAIL** [enquiries@right-of-light.co.uk](mailto:enquiries@right-of-light.co.uk)

**WEBSITE** [www.right-of-light.co.uk](http://www.right-of-light.co.uk)

Daylight and Sunlight Study  
Lupus House, 11 to 13 Macklin Street, Strand,  
London WC2B 5NE

1 February 2019

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DAYLIGHT AND SUNLIGHT STUDY  
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# 1 EXECUTIVE SUMMARY

## 1.1 Overview

- 1.1.1 Right of Light Consulting has been commissioned by Victor Woolf to undertake a daylight and sunlight study of the proposed development at Lupus House, 11 to 13 Macklin Street, Strand, London WC2B 5NE.
- 1.1.1 The study is based on the various numerical tests laid down in the Building Research Establishment (BRE) guide 'Site Layout Planning for Daylight and Sunlight: a guide to good practice' by P J Littlefair 2011.
- 1.1.2 The aim of the study is to assess the impact of the development on the light receivable by the neighbouring properties at 12, 14 & 16 Stukeley Street, 1 to 6 Powis House and 2, 9 & 10 to 14 Macklin Street.
- 1.1.3 The window key in Appendix 1 identifies the windows analysed in this study. Appendix 2 gives the numerical results of the various daylight and sunlight tests. All neighbouring windows pass the relevant BRE diffuse daylight and direct sunlight tests. The development also passes the BRE overshadowing to gardens and open spaces test.
- 1.1.4 In summary, the numerical results in this study demonstrate that the proposed development will have a low impact on the light receivable by its neighbouring properties. Right of Light Consulting confirms that the development design satisfies all of the requirements set out in the BRE guide 'Site Layout Planning for Daylight and Sunlight'.

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## 2 INFORMATION SOURCES

### 2.1 Documents Considered

2.1.1 This report is based on the following drawings:

#### LRM Survey Services

17/CA/471/01	Ground Floor Plan	Rev A
17/CA/471/02	Mezzanine Floor Plan	Rev -
17/CA/471/03	First Floor Plan	Rev -
17/CA/471/04	Second Floor Plan	Rev -
17/CA/471/05	Third Floor Plan	Rev -
17/CA/471/06	Fourth Floor Plan	Rev -
17/CA/471/07	Fifth Floor Plan	Rev -
17/CA/471/08	Front Elevation	Rev -
17/CA/471/09	Courtyard Elevations	Rev -
17/CA/471/10	Courtyard Elevations	Rev -

#### BB Partnership Ltd

FYS_200	Proposed Ground, First and Second Floors	Rev E
FYS_201	Proposed Third and Fourth Floors	Rev H
FYS_202	Proposed Elevations	Rev B
FYS_203	Proposed Section Options	Rev C
FYS_204	Proposed Roof Plan	Rev -

---

### **3 METHODOLOGY OF THE STUDY**

#### **3.1 BRE Guide: Site Layout Planning for Daylight and Sunlight**

3.1.1 The study is based on the various numerical tests laid down in the Building Research Establishment (BRE) guide ‘Site Layout Planning for Daylight and Sunlight: a guide to good practice’ by P J Littlefair 2011. In general, the BRE tests are based on the requirements of the British Standard, BS 8206 Part 2.

3.1.2 The standards set out in the BRE guide are intended to be used flexibly. The BRE guide states:

3.1.3 “The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not mandatory and the guide should not be seen as an instrument of planning policy; its aim is to help rather than constrain the designer. Although it gives numerical guidelines, these should be interpreted flexibly, since natural lighting is only one of many factors in site layout design.”

#### **3.2 National Planning Policy Framework**

3.2.1 The BRE numerical guidelines should be considered in the context of the National Planning Policy Framework (NPPF) 2018, which stipulates that local planning authorities should take a flexible approach to daylight and sunlight to ensure the efficient use of land. The NPPF states:

3.2.2 “Local planning authorities should refuse applications which they consider fail to make efficient use of land, taking into account the policies in this Framework. In this context, when considering applications for housing, authorities should take a flexible approach in applying policies or guidance relating to daylight and sunlight, where they would otherwise inhibit making efficient use of a site (as long as the resulting scheme would provide acceptable living standards).”

#### **3.3 Daylight to Windows**

3.3.1 Diffuse daylight is the light received from the sun which has been diffused through the sky. Even on a cloudy day, when the sun is not visible, a room will continue to be lit with light from the sky. This is diffuse daylight.

---

3.3.2 Diffuse daylight calculations should be undertaken to all rooms within domestic properties, where daylight is required, including living rooms, kitchens and bedrooms. The BRE guide states that windows to bathrooms, toilets, storerooms, circulation areas and garages need not be analysed. These room types are non-habitable and do not have a requirement for daylight.

3.3.3 The BRE guide states that the tests may also be applied to non-domestic buildings where there is a reasonable expectation of daylight. The BRE guide explains that this would normally include schools, hospitals, hotels and hostels, small workshops and some offices. The BRE guide is not explicit in terms of which types of offices it regards as having a requirement for daylight. However, it is widely accepted amongst consultants and local authorities, that for planning purposes, offices (which are commercial in nature) do not have a requirement for daylight. The point is touched on in the 'Daylighting and Sunlighting' guidance note published by the Royal Institution of Chartered Surveyors (RICS), which gives guidance to surveyors on how to produce their reports:

3.3.4 "The report should establish the limits of the assessment. For example, existing commercial premises are rarely assessed for loss of amenity."

3.3.5 The BRE guide contains two tests which measure diffuse daylight:

3.3.6 Test 1 Vertical Sky Component

The percentage of the sky visible from the centre of a window is known as the Vertical Sky Component. Diffuse daylight may be adversely affected if after a development the Vertical Sky Component is both less than 27% and less than 0.8 times its former value.

3.3.7 Test 2 Daylight Distribution

The distribution of daylight within a room can be calculated by plotting the 'no sky line'. The no sky line is a line which separates areas of the working plane that do and do not have a direct view of the sky. Daylight may be adversely affected if, after the development, the area of the working plane in a room which can receive direct skylight is reduced to less than 0.8 times its former value.

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3.3.8 The BRE guide states that both the total amount of skylight (Vertical Sky Component) and its distribution within the building (Daylight Distribution) are important. The BRE guide states that where room layouts are known, the impact on the daylighting distribution can be found by plotting the 'no sky line' in each of the main rooms. Therefore, we are of the opinion that application of the test is not a requirement of the BRE guide where room layouts are not known. We don't endorse the practice of applying the test based on assumed room layouts, because the test is very sensitive to the size and layout of the room and the results are likely to be misleading. However, we can provide additional daylight distribution data upon request by the local authority, if neighbouring room layout information is confirmed.

### **3.4 Sunlight availability to Windows**

3.4.1 The BRE sunlight tests should be applied to all main living rooms and conservatories which have a window which faces within 90 degrees of due south. The guide states that kitchens and bedrooms are less important, although care should be taken not to block too much sunlight. The tests should also be applied to non-domestic buildings where there is a particular requirement for sunlight.

3.4.2 The BRE guide states that sunlight availability may be adversely affected if the centre of the window:

- receives less than 25% of annual probable sunlight hours, or less than 5% of annual probable sunlight hours between 21 September and 21 March and
- receives less than 0.8 times its former sunlight hours during either period and
- has a reduction in sunlight received over the whole year greater than 4% of annual probable sunlight hours.

### **3.5 Overshadowing to Gardens and Open Spaces**

3.5.1 The availability of sunlight should be checked for all open spaces where sunlight is required. This would normally include:

- Gardens, usually the main back garden of a house
- Parks and playing fields
- Children's playgrounds

- 
- Outdoor swimming pools and paddling pools
  - Sitting out areas, such as those between non-domestic buildings and in public squares
  - Focal points for views such as a group of monuments or fountains.

3.5.2 The BRE guide recommends that at least 50% of the area of each amenity space listed above should receive at least two hours of sunlight on 21 March. If as a result of new development an existing garden or amenity area does not meet the above, and the area which can receive two hours of sunlight on 21 March is less than 0.8 times its former value, then the loss of light is likely to be noticeable.

---

## **4 RESULTS OF THE STUDY**

### **4.1 Windows & Amenity Areas Considered**

- 4.1.1 The aim of the study is to assess the impact of the development on the light receivable by the neighbouring properties at 12, 14 & 16 Stukeley Street, 1 to 6 Powis House and 2, 9 & 10 to 14 Macklin Street.
- 4.1.2 Appendix 1 provides a plan and photographs to indicate the positions of the windows and outdoor amenity areas analysed in this study.
- 4.1.3 Appendix 2 lists the detailed numerical daylight and sunlight test results. The results are interpreted below.

### **4.2 Daylight to Windows**

#### **4.2.1 Vertical Sky Component**

- 4.2.2 All windows tested pass the Vertical Sky Component test.

#### **4.2.3 Daylight Distribution**

- 4.2.4 We have undertaken the Daylight Distribution test where room layouts are known. All rooms tested (including rooms without a requirement for daylight) pass the daylight distribution test.

### **4.3 Sunlight to Windows**

- 4.3.1 All windows that face within 90 degrees of due south have been tested for direct sunlight. All windows pass both the total annual sunlight hours test and the winter sunlight hours test. The proposed development therefore satisfies the BRE direct sunlight to windows requirements.

### **4.4 Overshadowing to Gardens and Open Spaces**

- 4.4.1 The proposed development will not create any new areas which receive less than two hours of sunlight on 21 March. The before/after ratios are 1 (no loss) and the proposed development therefore passes the BRE overshadowing to gardens and open spaces test.

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## **4.5 Conclusion**

4.5.1 In summary, the numerical results in this study demonstrate that the proposed development will have a low impact on the light receivable by its neighbouring properties. Right of Light Consulting confirms that the development design satisfies all of the requirements set out in the BRE guide 'Site Layout Planning for Daylight and Sunlight'.

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## **5 CLARIFICATIONS**

### **5.1 General**

- 5.1.1 The report provided is solely for the use of the client and no liability to anyone else is accepted.
- 5.1.2 We have undertaken the survey following the guidelines of the RICS publication “Surveying Safely”. Where limited access or information is available, assumptions will have been made which may affect the conclusions reached in this report. Where neighbouring room uses are not known, we will either make an assumption regarding the use, or take the prudent approach of treating the use of the room as being used for domestic purposes. Therefore, the report may need to be updated if room uses are confirmed by the local authority or by the consultation responses.
- 5.1.3 This report is based upon and subject to the scope of work set out in Right of Light Consulting’s quotation and standard terms and conditions.

### **5.2 Project Specific**

- 5.2.1 None.

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## **APPENDICES**

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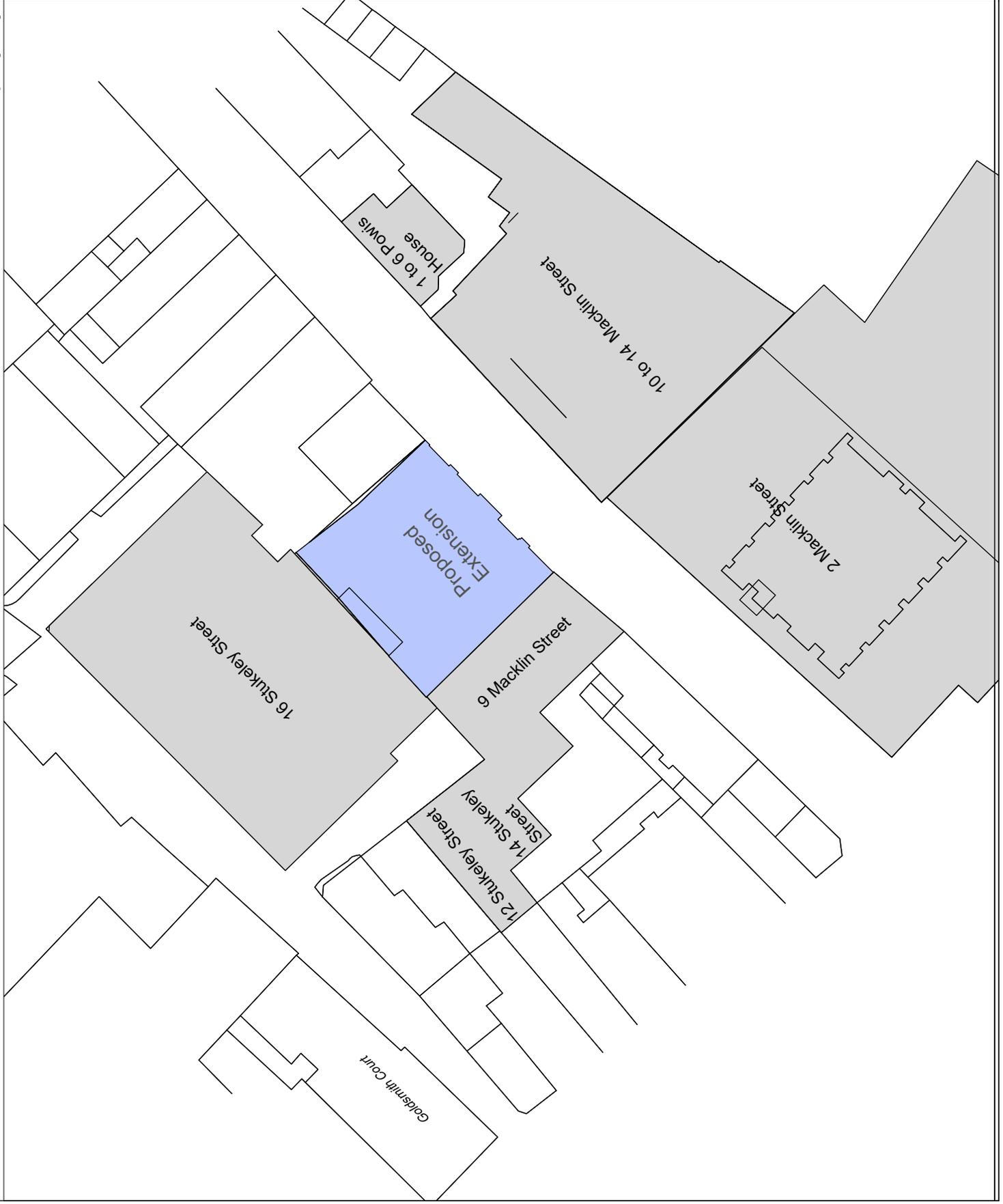
## **APPENDIX 1**

### **WINDOW & GARDEN KEY**

**Property Key**

**Key**

- Development site
- Neighbouring Properties



Project Name: Lupus House, 11 to 13 Macklin Street, Strand,  
London WC2B 5NE

Drawn Title: Property Key

Scale: Do not scale

Drawing No: 1 of 7

Rev: -

Rev / Date / Details of revision



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Window & Garden Key

Key



Development site



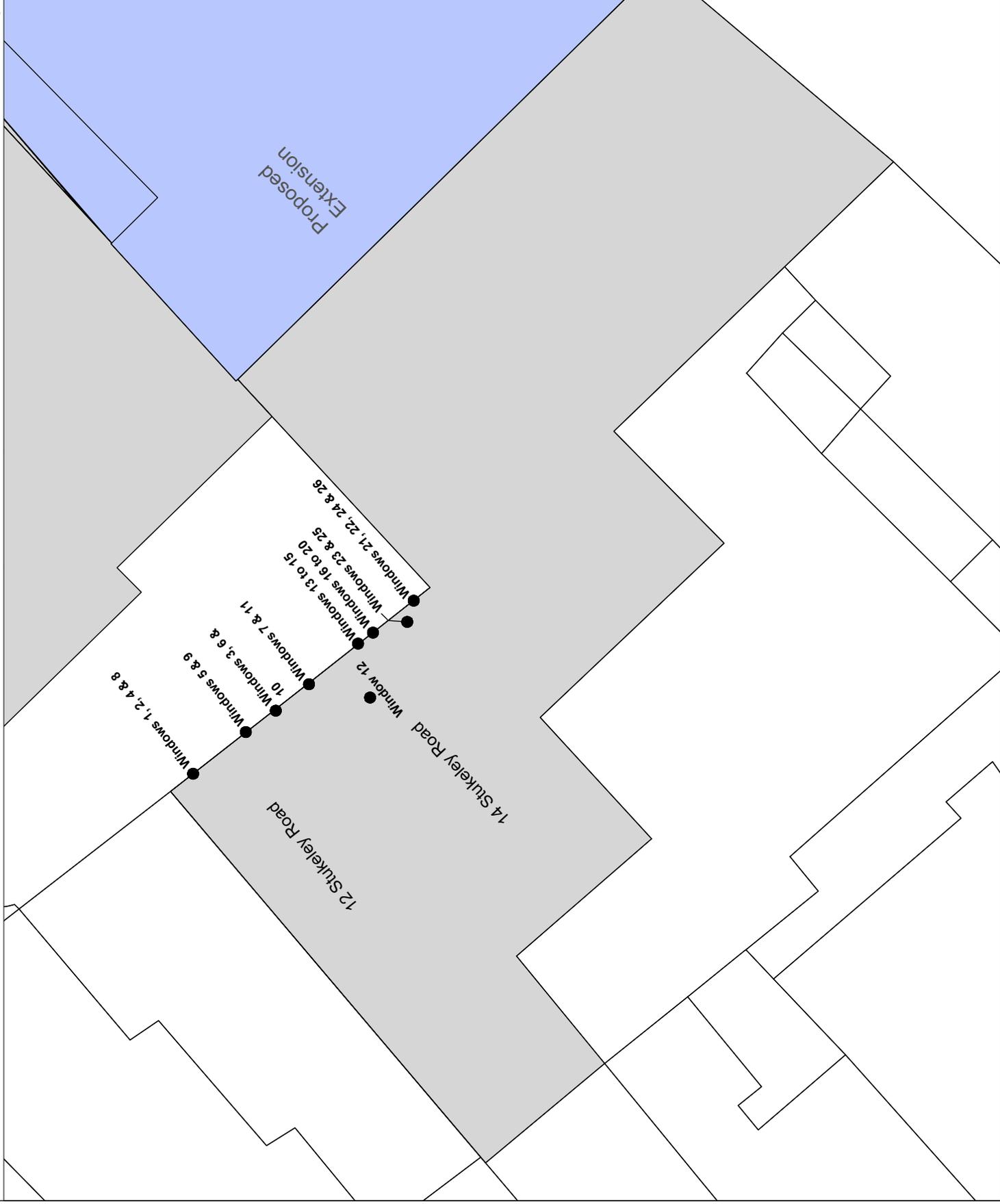
Neighbouring Properties



Window reference



Neighbouring Gardens and Amenity Areas



Project Name: Lupus House, 11 to 13 Macklin Street, Strand, London WC2B 5NE

Drawing Title: Neighbouring Windows

Scale: Do not scale

Drawing No: 2 of 7

Rev: -



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# Window & Garden Key

## Key



Development site



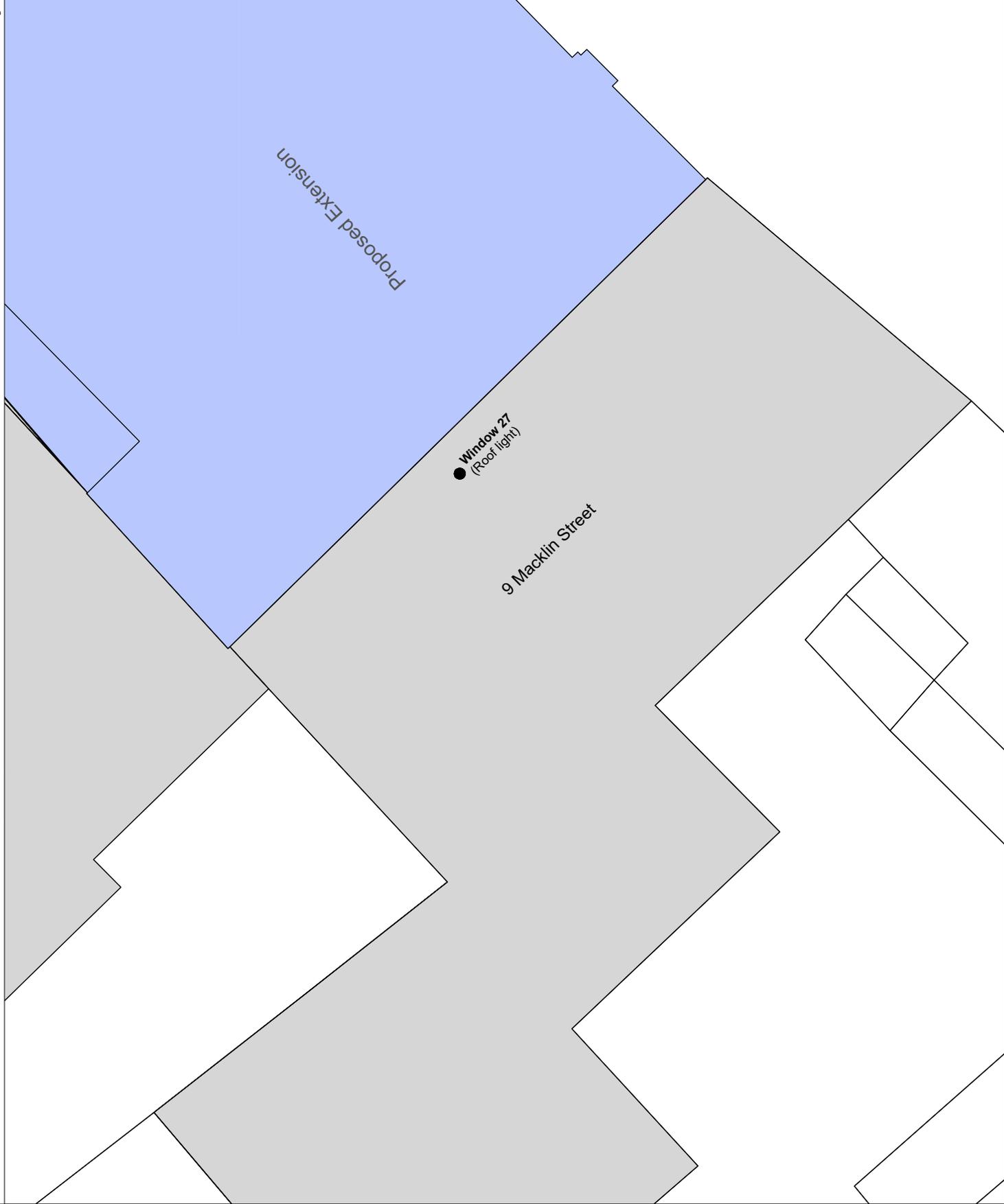
Neighbouring Properties



Window reference



Neighbouring Gardens and Amenity Areas



Project Name: Lupus House, 11 to 13 Macklin Street, Strand, London WC2B 5NE

Drawing Title: Neighbouring Windows

Scale: Do not scale

Drawing No: 3 of 7

Rev: -

Rev: -

Rev: -

Rev: -

Rev: -



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**Window & Garden Key**

**Key**



Development site



Neighbouring Properties



Window reference



Neighbouring Gardens and Amenity Areas



Project Name: Lupus House, 11 to 13 Macklin Street, Strand, London WC2B 5NE

Drawing Title: Neighbouring Windows

Scale: Do not scale

Drawing No: 4 of 7

Rev: -

Date: -

Details of revision:



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Rayleigh  
Essex SS6 7EW

Tel: 0800 197 4836

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**Window & Garden Key**

**Key**



Development site



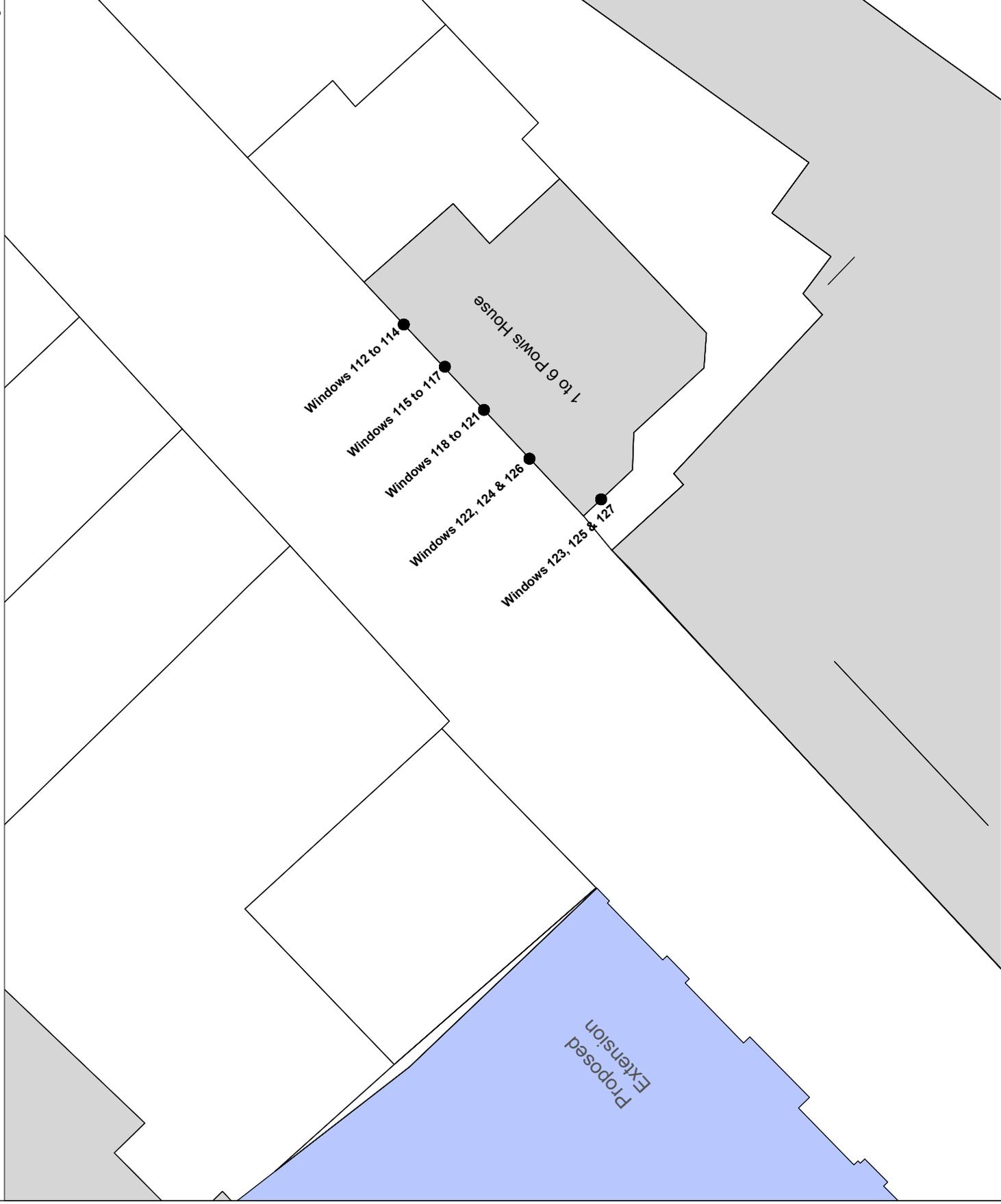
Neighbouring Properties



Window reference



Neighbouring Gardens and Amenity Areas



Project Name: Lupus House, 11 to 13 Macklin Street, Strand,  
London WC2B 5NE

Drawing Title: Neighbouring Windows

Scale: Do not scale

Drawing No: 5 of 7

Rev: -

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Rev: -

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enquiries@right-of-light.co.uk  
www.right-of-light.co.uk

**Window & Garden Key**

**Key**



Development site



Neighbouring Properties



Window reference



Neighbouring Gardens and Amenity Areas



Project Name: Lupus House, 11 to 13 Macklin Street, Strand, London WC2B 5NE

Drawing Title: Neighbouring Windows

Scale: Do not scale

Drawing No: 6 of 7

Rev: -

Rev: -

Rev: -

Rev: -



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www.right-of-light.co.uk

**Window & Garden Key**

**Key**



Development site



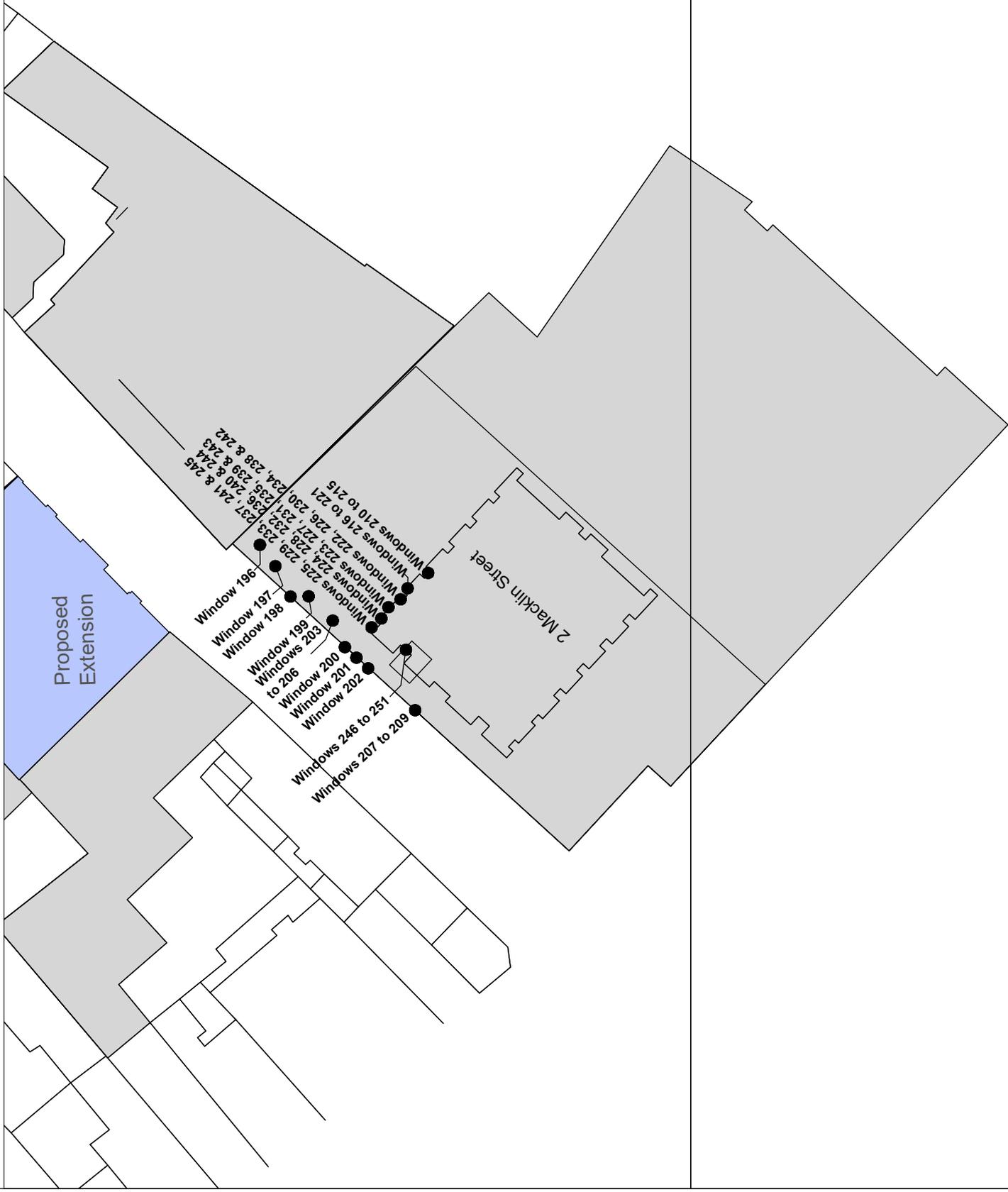
Neighbouring Properties



Window reference



Neighbouring Gardens and Amenity Areas



Project Name: Lupus House, 11 to 13 Macklin Street, Strand, London WC2B 5NE

Drawing Title: Neighbouring Windows

Scale: Do not scale

Drawing No: 7 of 7

Rev: -

Rev: -

Date: Details of revision



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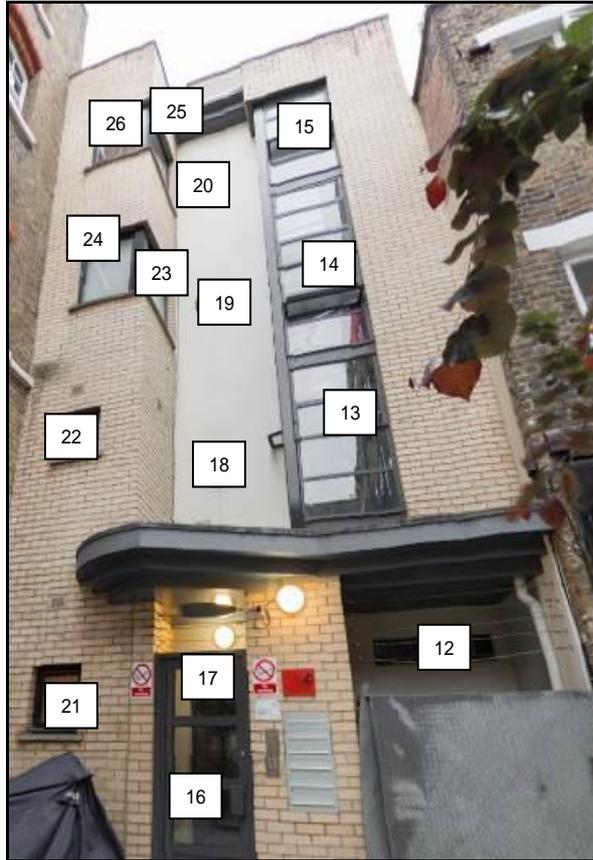
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12 Stukeley Street



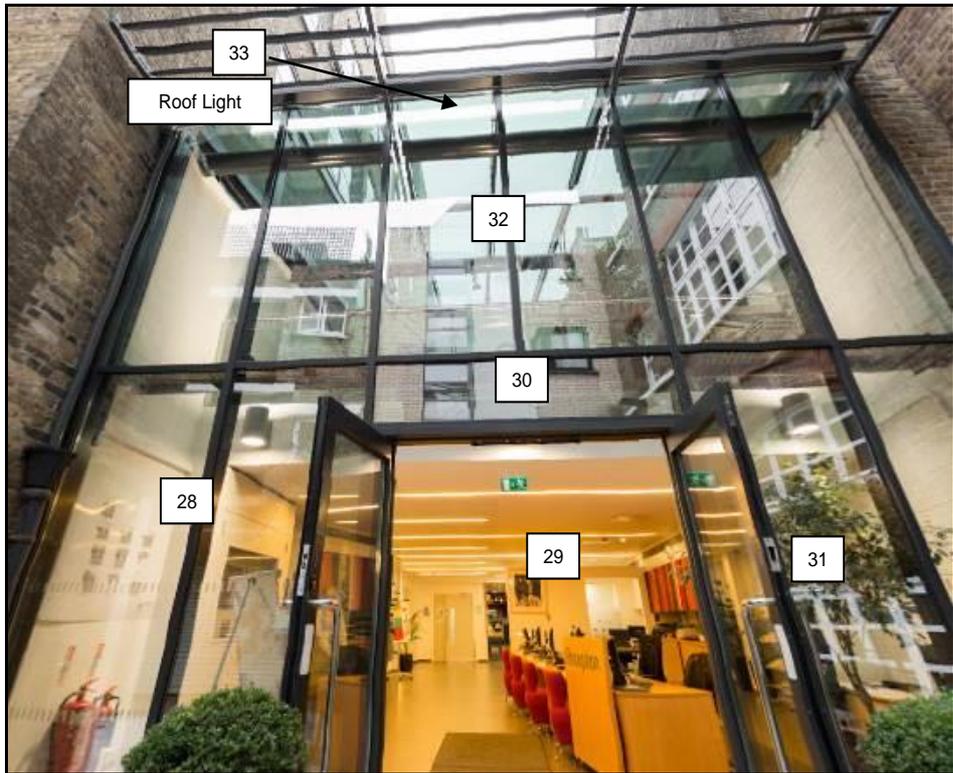
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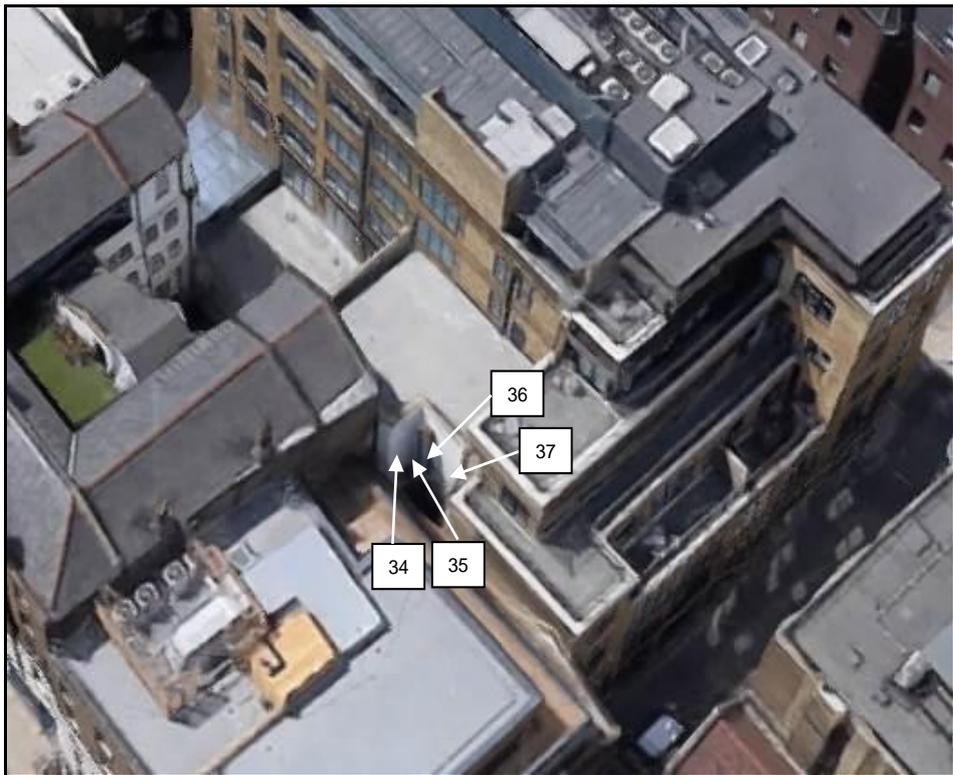
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**9 Macklin Street**



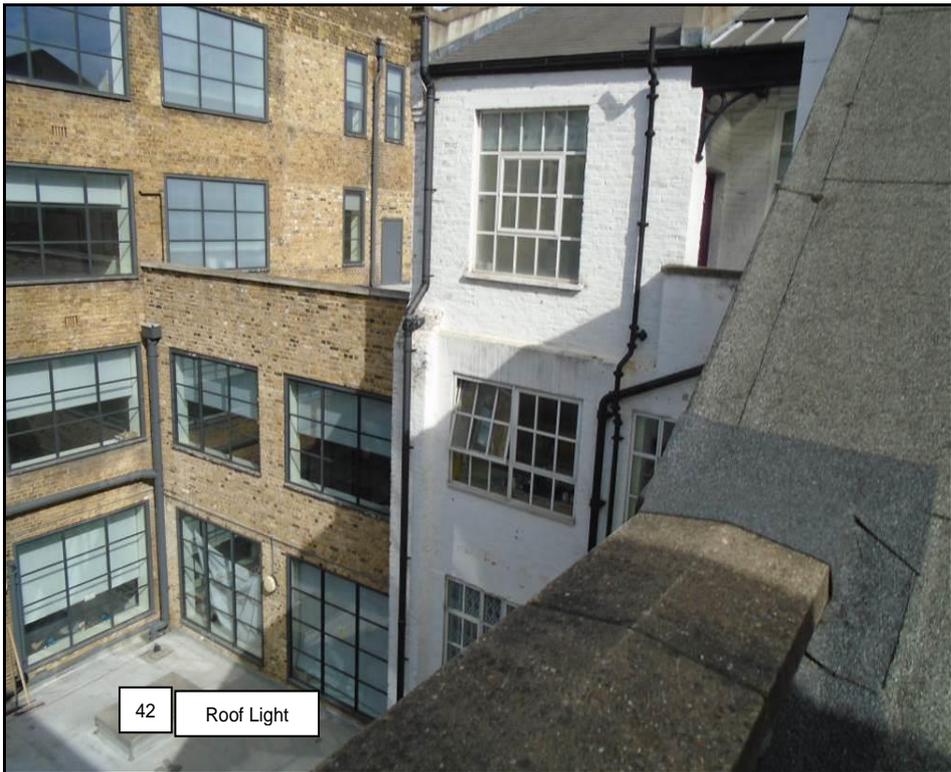
16 Stukeley Street



16 Stukeley Street



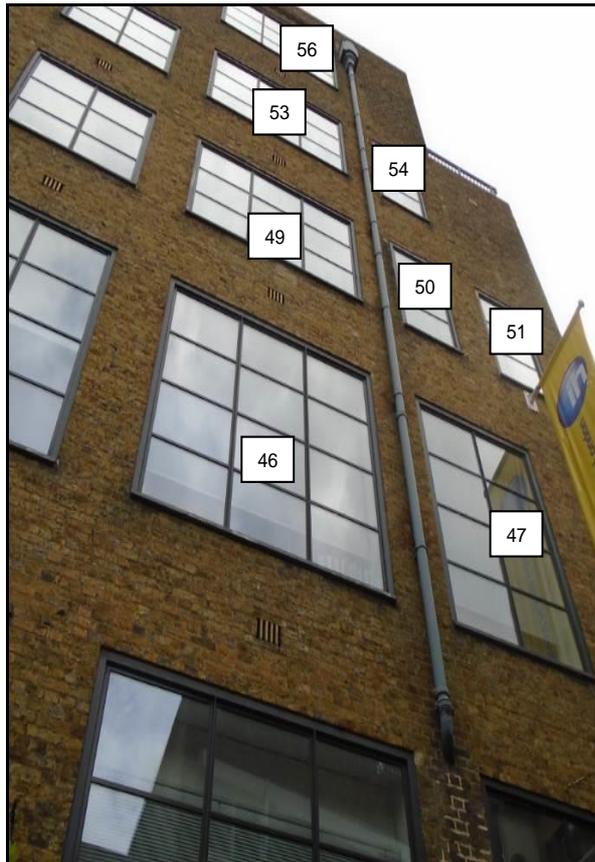
16 Stukeley Street



16 Stukeley Street



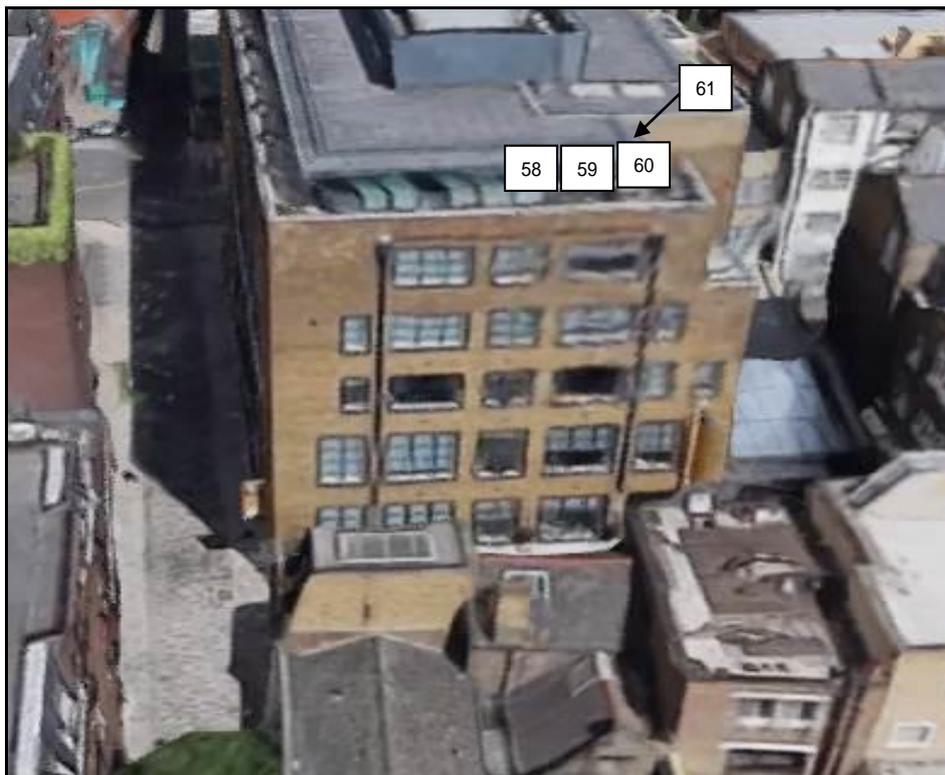
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**16 Stukeley Street**



16 Stukeley Street



16 Stukeley Street



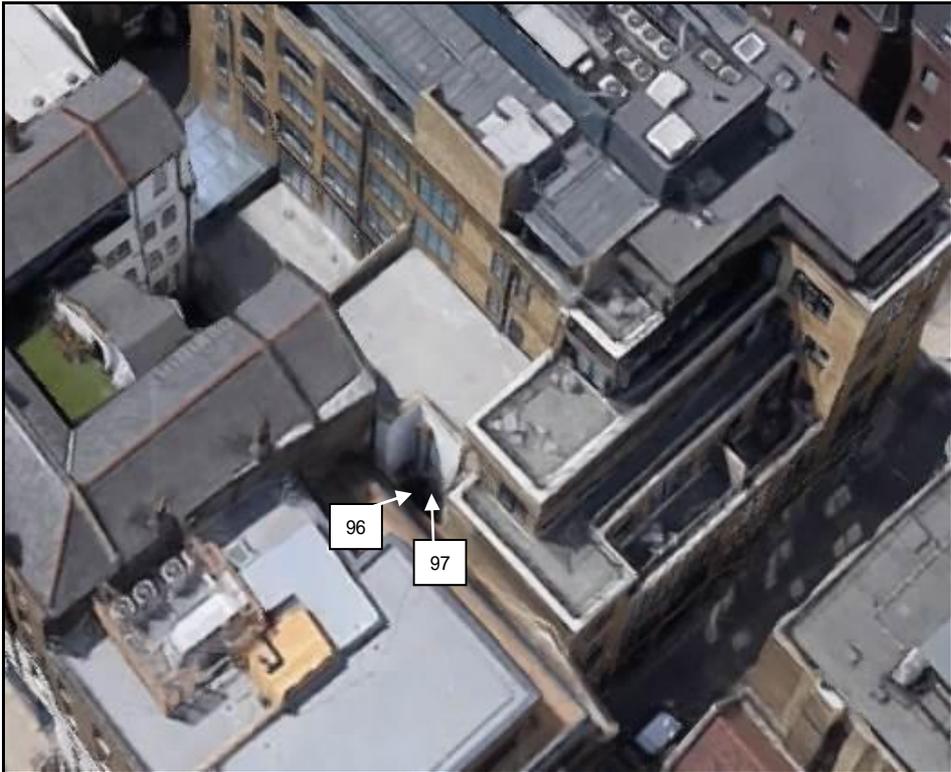
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**16 Stukeley Street**



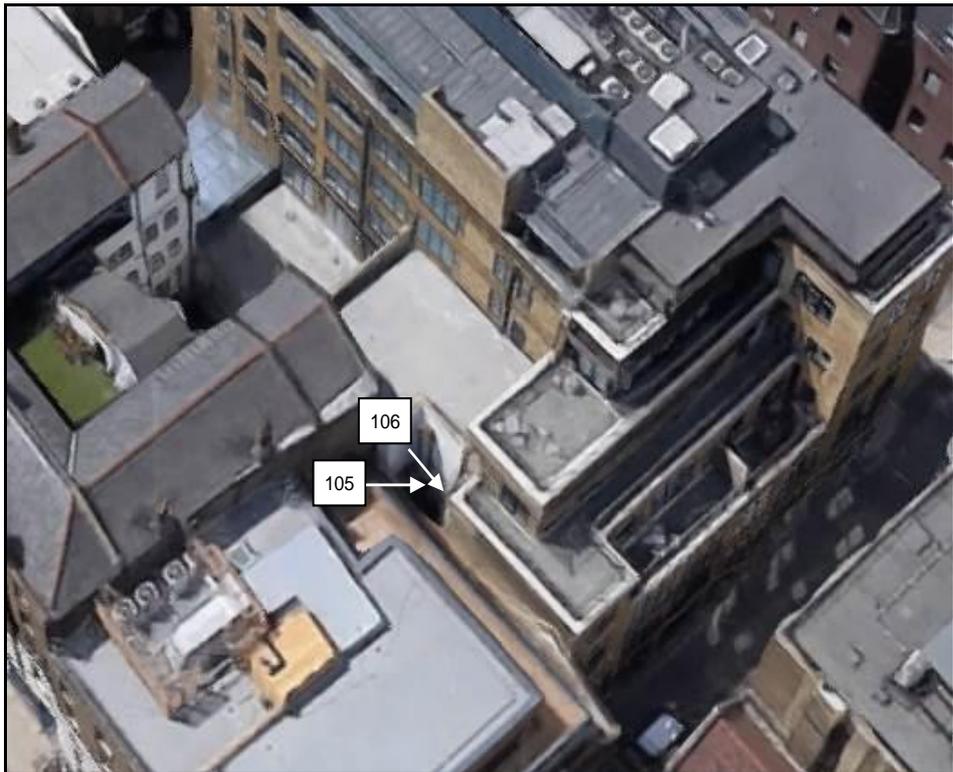
**16 Stukeley Street**



**16 Stukeley Street**



**16 Stukeley Street**



**16 Stukeley Street**



**16 Stukeley Street**



**1 to 6 Powis House**



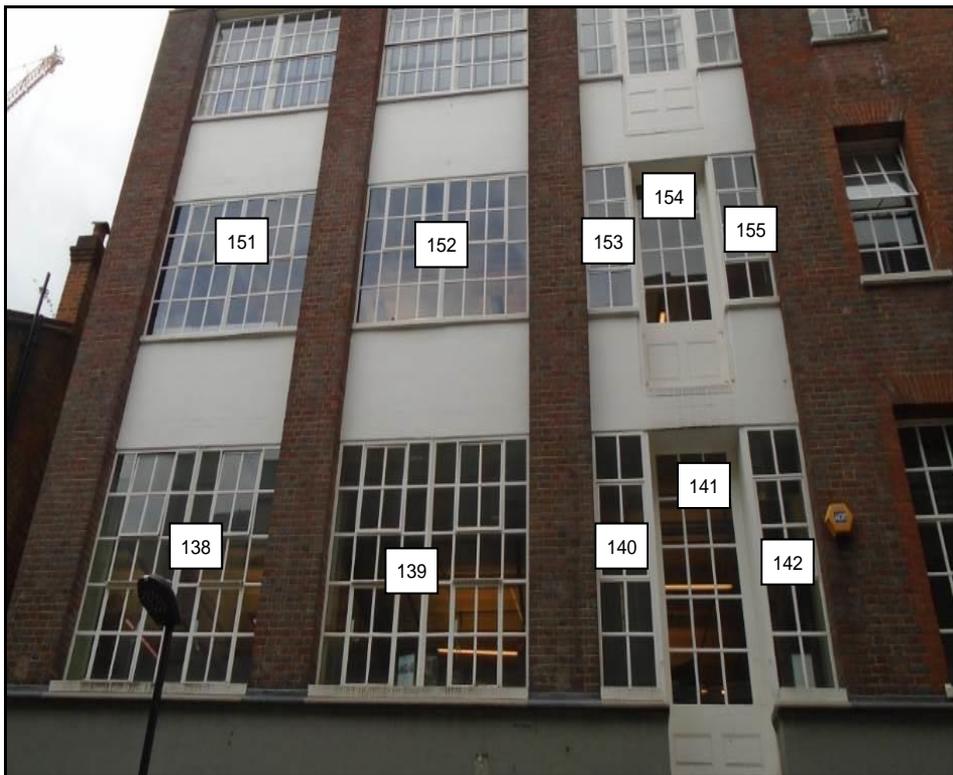
10 to 14 Macklin Street



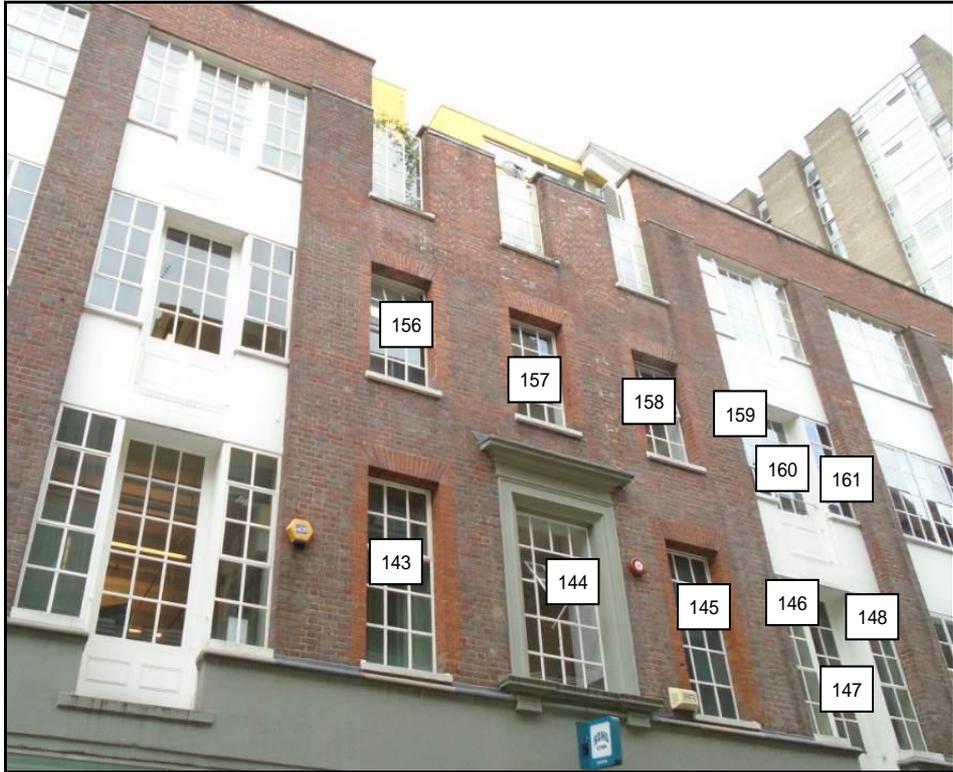
10 to 14 Macklin Street



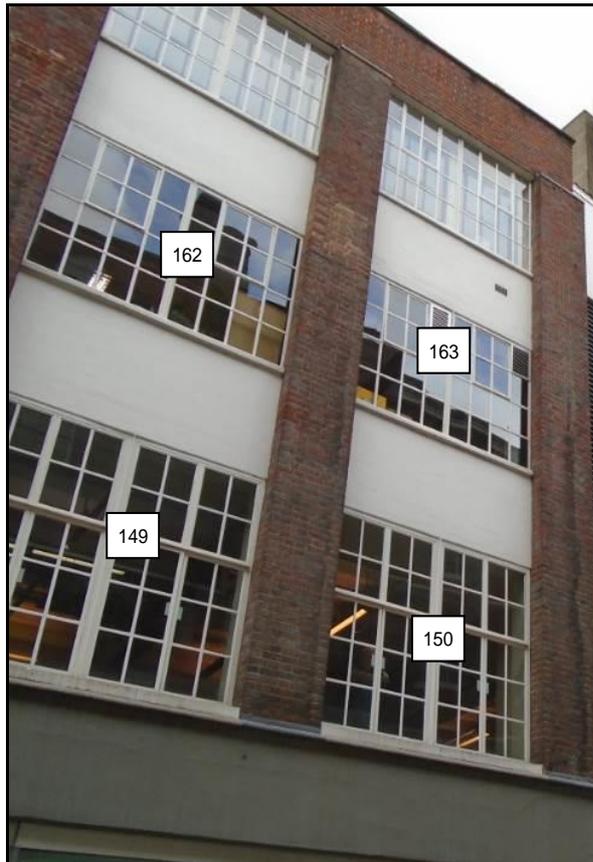
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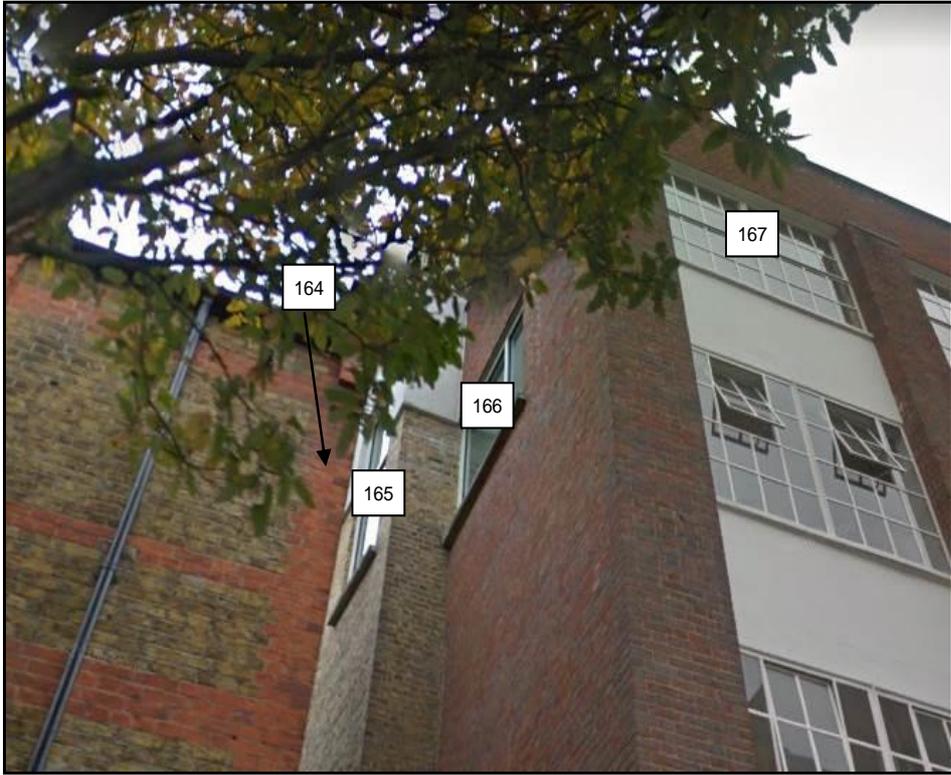
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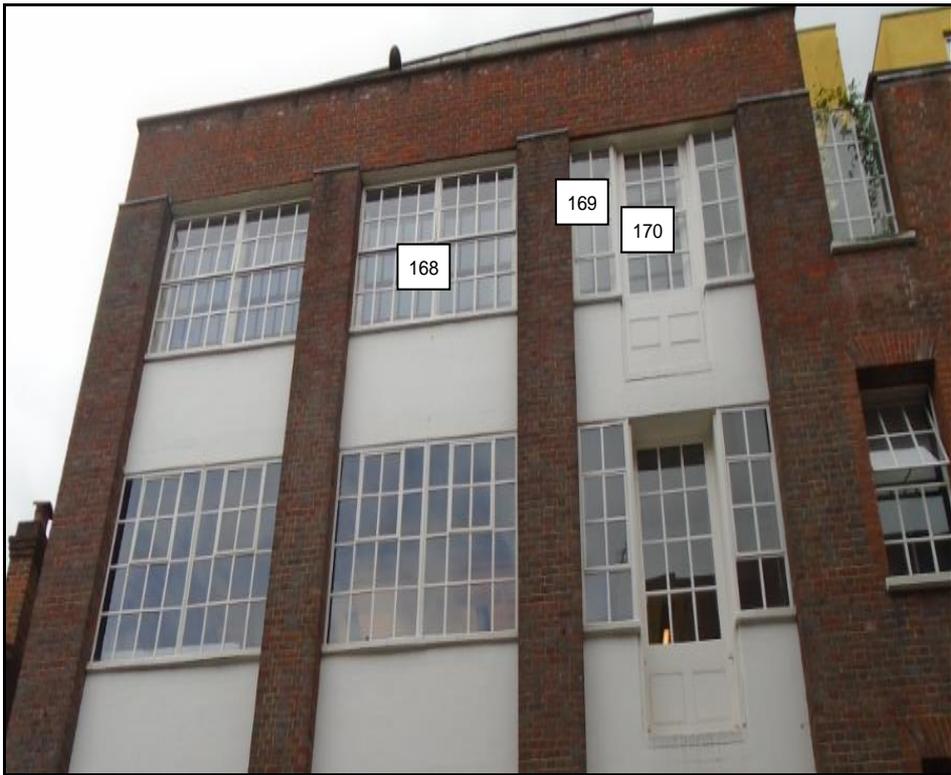
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**10 to 14 Macklin Street**



**10 to 14 Macklin Street**



**10 to 14 Macklin Street**



**10 to 14 Macklin Street**



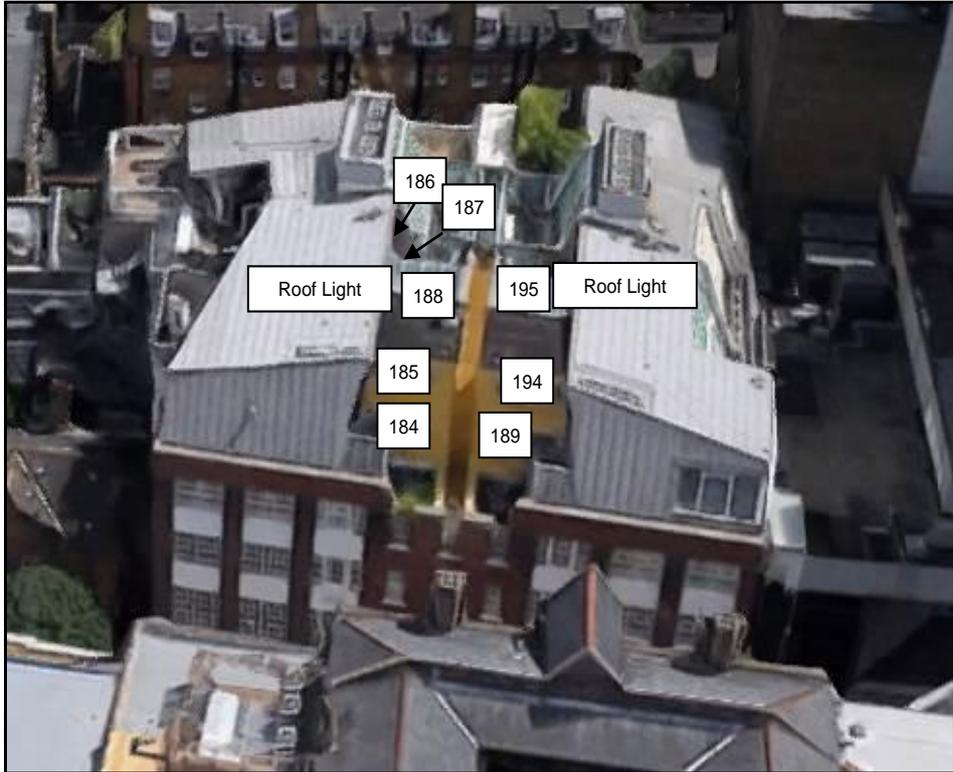
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**10 to 14 Macklin Street**



**10 to 14 Macklin Street**



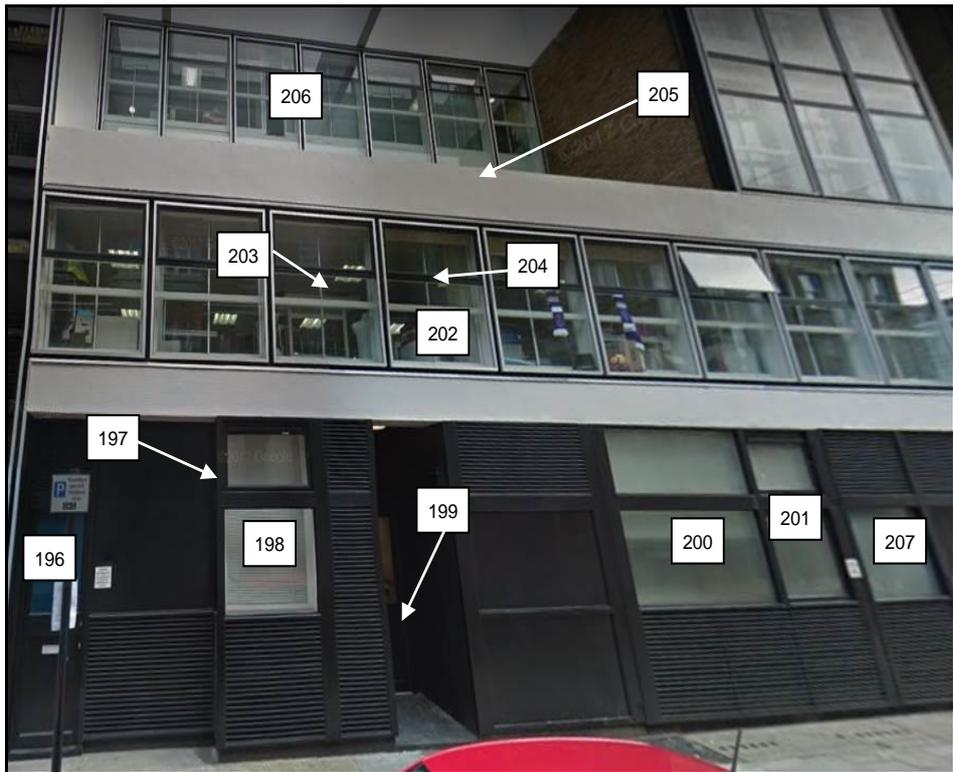
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**10 to 14 Macklin Street**



**10 to 14 Macklin Street**



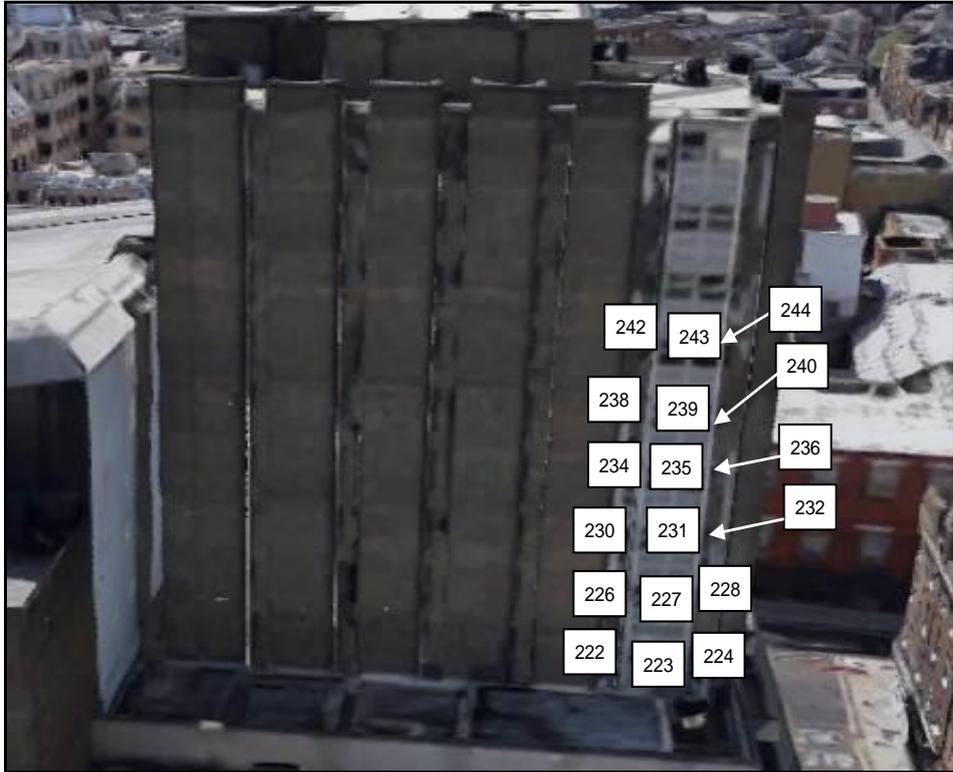
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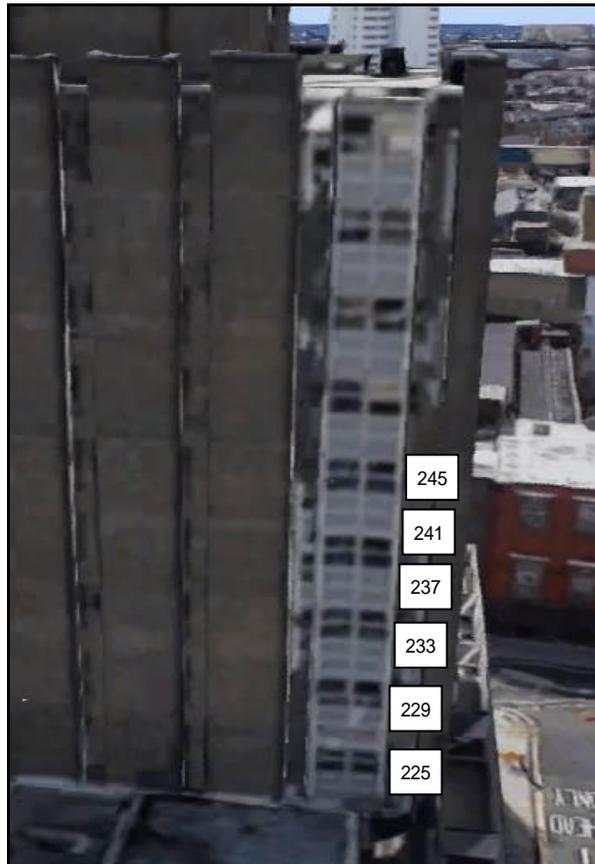
**2 Macklin Street**



**2 Macklin Street**



**2 Macklin Street**



**2 Macklin Street**



**2 Macklin Street**

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## **APPENDIX 2**

### **DAYLIGHT AND SUNLIGHT RESULTS**

**Appendix 2 - Vertical Sky Component**  
**Lupus House, 11 to 13 Macklin Street, London WC2B 5NE**

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
<u>12 Stukeley Street</u>					
Window 1	Domestic	4.2%	4.2%	0.0%	1.0
Window 2	Domestic	4.7%	4.6%	0.1%	0.98
Window 3	Domestic	6.8%	6.8%	0.0%	1.0
Window 4	Domestic	6.0%	6.0%	0.0%	1.0
Window 5	Domestic	7.4%	7.3%	0.1%	0.99
Window 6	Domestic	8.9%	8.9%	0.0%	1.0
Window 7	Domestic	9.8%	9.7%	0.1%	0.99
Window 8	Domestic	8.8%	8.8%	0.0%	1.0
Window 9	Domestic	10.6%	10.6%	0.0%	1.0
Window 10	Domestic	12.1%	12.1%	0.0%	1.0
Window 11	Domestic	13.1%	13.1%	0.0%	1.0
<u>14 Stukeley Street</u>					
Window 12	Domestic	0.1%	0.1%	0.0%	1.0
Window 13	Domestic	8.6%	8.6%	0.0%	1.0
Window 14	Domestic	10.9%	10.9%	0.0%	1.0
Window 15	Domestic	11.4%	11.4%	0.0%	1.0
Window 16	Domestic	5.9%	5.9%	0.0%	1.0
Window 17	Domestic	5.0%	5.0%	0.0%	1.0
Window 18	Domestic	6.9%	6.9%	0.0%	1.0
Window 19	Domestic	8.2%	8.2%	0.0%	1.0
Window 20	Domestic	9.7%	9.7%	0.0%	1.0
Window 21	Domestic	5.5%	5.5%	0.0%	1.0
Window 22	Domestic	7.0%	7.0%	0.0%	1.0
Window 23	Domestic	5.4%	5.4%	0.0%	1.0
Window 24	Domestic	8.6%	8.6%	0.0%	1.0
Window 25	Domestic	7.9%	7.9%	0.0%	1.0
Window 26	Domestic	10.8%	10.8%	0.0%	1.0
<u>9 Macklin Street</u>					
Window 27	Staircase	23.7%	23.8%	-0.1%	1.0
<u>16 Stukeley Street</u>					
Window 28	Entrance Lobby	6.4%	6.4%	0.0%	1.0
Window 29	Entrance Lobby	7.4%	7.4%	0.0%	1.0
Window 30	Entrance Lobby	9.1%	9.1%	0.0%	1.0
Window 31	Entrance Lobby	6.7%	6.7%	0.0%	1.0
Window 32	Entrance Lobby	12.5%	12.5%	0.0%	1.0
Window 33	Entrance Lobby	40.6%	40.5%	0.1%	1.0
Window 34	Entrance Lobby	0.6%	0.6%	0.0%	1.0
Window 35	Entrance Lobby	0.7%	0.7%	0.0%	1.0
Window 36	Entrance Lobby	0.6%	0.6%	0.0%	1.0
Window 37	Entrance Lobby	0.5%	0.5%	0.0%	1.0
Window 38	Plant and Boiler Room	0.7%	0.7%	0.0%	1.0

## Appendix 2 - Vertical Sky Component

Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
Window 39	Plant and Boiler Room	0.7%	0.7%	0.0%	1.0
Window 40	Plant and Boiler Room	0.7%	0.7%	0.0%	1.0
Window 41	Plant and Boiler Room	0.8%	0.8%	0.0%	1.0
Window 42	Cafe	28.9%	28.2%	0.7%	0.98
Window 43	Cafe	1.7%	1.7%	0.0%	1.0
Window 44	Cafe	1.9%	1.9%	0.0%	1.0
Window 45	Cafe	1.9%	1.9%	0.0%	1.0
Window 46	Classroom	30.5%	30.5%	0.0%	1.0
Window 47	Classroom	28.9%	28.9%	0.0%	1.0
Window 48	Classroom	13.8%	13.7%	0.1%	0.99
Window 49	Classroom	36.4%	36.4%	0.0%	1.0
Window 50	Classroom	36.1%	36.1%	0.0%	1.0
Window 51	Classroom	35.6%	35.6%	0.0%	1.0
Window 52	Classroom	20.7%	20.6%	0.1%	1.0
Window 53	Classroom	38.1%	38.1%	0.0%	1.0
Window 54	Classroom	37.9%	37.9%	0.0%	1.0
Window 55	Classroom	28.8%	28.7%	0.1%	1.0
Window 56	Classroom	38.5%	38.5%	0.0%	1.0
Window 57	Classroom	23.1%	23.1%	0.0%	1.0
Window 58	Executive Classroom	35.1%	35.1%	0.0%	1.0
Window 59	Executive Classroom	35.0%	35.0%	0.0%	1.0
Window 60	Executive Center Reception	35.0%	35.0%	0.0%	1.0
Window 61	Executive Center Reception	16.5%	16.5%	0.0%	1.0
Window 62	Executive Center Reception	22.9%	22.9%	0.0%	1.0
Window 63	Staircase	16.8%	16.6%	0.2%	0.99
Window 64	Staircase	24.2%	23.8%	0.4%	0.98
Window 65	Staircase	31.6%	31.3%	0.3%	0.99
Window 66	Staircase	36.0%	35.7%	0.3%	0.99
Window 67	Classroom	14.7%	13.9%	0.8%	0.95
Window 68	Classroom	14.2%	13.4%	0.8%	0.94
Window 69	Classroom	21.8%	20.9%	0.9%	0.96
Window 70	Classroom	22.1%	21.1%	1.0%	0.95
Window 71	Classroom	29.8%	28.8%	1.0%	0.97
Window 72	Classroom	30.4%	29.2%	1.2%	0.96
Window 73	Classroom	35.1%	34.4%	0.7%	0.98
Window 74	Classroom	35.2%	34.5%	0.7%	0.98
Window 75	Executive Classroom	21.9%	21.9%	0.0%	1.0
Window 76	Classroom	11.3%	10.6%	0.7%	0.94
Window 77	Classroom	17.8%	16.9%	0.9%	0.95
Window 78	Classroom	29.5%	28.6%	0.9%	0.97
Window 79	Classroom	35.3%	34.7%	0.6%	0.98
Window 80	Classroom	19.7%	19.7%	0.0%	1.0
Window 81	Staircase	28.9%	28.6%	0.3%	0.99
Window 82	Staircase	35.6%	35.4%	0.2%	0.99
Window 83	Bathroom/WC	29.6%	29.6%	0.0%	1.0

## Appendix 2 - Vertical Sky Component

Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
Window 84	Bathroom/WC	36.4%	36.2%	0.2%	0.99
Window 85	Bathroom/WC	19.6%	19.6%	0.0%	1.0
Window 86	Bathroom/WC	26.5%	26.6%	-0.1%	1.0
Window 87	Bathroom/WC	36.6%	36.4%	0.2%	0.99
Window 88	Bathroom/WC	22.9%	22.9%	0.0%	1.0
Window 89	Bathroom/WC	25.4%	25.4%	0.0%	1.0
Window 90	Domestic	36.9%	36.8%	0.1%	1.0
Window 91	Domestic	37.5%	37.5%	0.0%	1.0
Window 92	Domestic	32.7%	32.7%	0.0%	1.0
Window 93	Domestic	38.2%	38.2%	0.0%	1.0
Window 94	Classroom	12.9%	12.7%	0.2%	0.98
Window 95	Classroom	14.1%	13.8%	0.3%	0.98
Window 96	Classroom	5.4%	5.4%	0.0%	1.0
Window 97	Classroom	6.6%	6.6%	0.0%	1.0
Window 98	Classroom	16.5%	16.4%	0.1%	0.99
Window 99	Classroom	19.1%	19.0%	0.1%	0.99
Window 100	Staircase	0.3%	0.3%	0.0%	1.0
Window 101	Staircase	0.4%	0.4%	0.0%	1.0
Window 102	Staircase	0.9%	0.9%	0.0%	1.0
Window 103	Staircase	10.7%	10.7%	0.0%	1.0
Window 104	Staircase	24.7%	24.7%	0.0%	1.0
Window 105	Classroom	7.3%	7.3%	0.0%	1.0
Window 106	Staircase	3.4%	3.4%	0.0%	1.0
Window 107	Classroom	18.0%	17.8%	0.2%	0.99
Window 108	Domestic	13.8%	13.5%	0.3%	0.98
Window 109	Domestic	33.2%	32.7%	0.5%	0.98
Window 110	Domestic	35.4%	35.0%	0.4%	0.99
Window 111	Domestic	37.4%	37.4%	0.0%	1.0
<b>1 to 6 Powis House</b>					
Window 112	Domestic	19.8%	19.8%	0.0%	1.0
Window 113	Domestic	25.3%	25.3%	0.0%	1.0
Window 114	Domestic	30.0%	30.0%	0.0%	1.0
Window 115	Domestic	18.2%	18.2%	0.0%	1.0
Window 116	Domestic	23.6%	23.5%	0.1%	1.0
Window 117	Domestic	28.3%	28.3%	0.0%	1.0
Window 118	Domestic	17.3%	17.3%	0.0%	1.0
Window 119	Domestic	22.3%	22.3%	0.0%	1.0
Window 120	Domestic	27.4%	27.3%	0.1%	1.0
Window 121	Domestic	31.6%	31.4%	0.2%	0.99
Window 122	Domestic	15.8%	15.8%	0.0%	1.0
Window 123	Domestic	2.7%	2.7%	0.0%	1.0
Window 124	Domestic	20.5%	20.5%	0.0%	1.0
Window 125	Domestic	3.7%	3.6%	0.1%	0.97
Window 126	Domestic	25.8%	25.7%	0.1%	1.0
Window 127	Domestic	5.1%	5.0%	0.1%	0.98

## Appendix 2 - Vertical Sky Component

### Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
<u>10 to 14 Macklin Street</u>					
Window 128	Domestic	12.8%	12.7%	0.1%	0.99
Window 129	Domestic	11.1%	11.1%	0.0%	1.0
Window 130	Domestic	10.9%	10.9%	0.0%	1.0
Window 131	Domestic	9.7%	9.7%	0.0%	1.0
Window 132	Domestic	8.5%	8.5%	0.0%	1.0
Window 133	Domestic	9.5%	9.5%	0.0%	1.0
Window 134	Domestic	8.7%	8.8%	-0.1%	1.01
Window 135	Domestic	8.4%	8.5%	-0.1%	1.01
Window 136	Domestic	8.6%	8.6%	0.0%	1.0
Window 137	Domestic	8.5%	8.5%	0.0%	1.0
Window 138	Domestic	18.1%	18.0%	0.1%	0.99
Window 139	Domestic	16.5%	16.4%	0.1%	0.99
Window 140	Domestic	15.5%	15.5%	0.0%	1.0
Window 141	Domestic	15.1%	15.1%	0.0%	1.0
Window 142	Domestic	14.8%	14.8%	0.0%	1.0
Window 143	Domestic	14.1%	14.1%	0.0%	1.0
Window 144	Domestic	13.2%	13.2%	0.0%	1.0
Window 145	Domestic	12.6%	12.6%	0.0%	1.0
Window 146	Domestic	12.2%	12.2%	0.0%	1.0
Window 147	Domestic	12.1%	12.1%	0.0%	1.0
Window 148	Domestic	12.0%	12.0%	0.0%	1.0
Window 149	Domestic	11.8%	11.8%	0.0%	1.0
Window 150	Domestic	11.8%	11.8%	0.0%	1.0
Window 151	Domestic	25.4%	25.2%	0.2%	0.99
Window 152	Domestic	23.6%	23.5%	0.1%	1.0
Window 153	Domestic	22.4%	22.3%	0.1%	1.0
Window 154	Domestic	21.9%	21.8%	0.1%	1.0
Window 155	Domestic	21.4%	21.4%	0.0%	1.0
Window 156	Domestic	20.3%	20.3%	0.0%	1.0
Window 157	Domestic	19.2%	19.2%	0.0%	1.0
Window 158	Domestic	18.1%	18.1%	0.0%	1.0
Window 159	Domestic	17.6%	17.6%	0.0%	1.0
Window 160	Domestic	17.4%	17.4%	0.0%	1.0
Window 161	Domestic	17.2%	17.3%	-0.1%	1.01
Window 162	Domestic	17.1%	17.1%	0.0%	1.0
Window 163	Domestic	17.3%	17.3%	0.0%	1.0
Window 164	Domestic	38.1%	38.1%	0.0%	1.0
Window 165	Domestic	39.0%	39.0%	0.0%	1.0
Window 166	Domestic	36.6%	36.6%	0.0%	1.0
Window 167	Domestic	32.7%	32.4%	0.3%	0.99
Window 168	Domestic	31.3%	31.1%	0.2%	0.99
Window 169	Domestic	30.2%	30.2%	0.0%	1.0
Window 170	Domestic	29.8%	29.8%	0.0%	1.0
Window 171	Domestic	12.9%	12.9%	0.0%	1.0

## Appendix 2 - Vertical Sky Component

### Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
Window 172	Domestic	18.6%	18.6%	0.0%	1.0
Window 173	Domestic	19.5%	19.6%	-0.1%	1.01
Window 174	Domestic	12.9%	12.9%	0.0%	1.0
Window 175	Domestic	24.5%	24.7%	-0.2%	1.01
Window 176	Domestic	24.3%	24.6%	-0.3%	1.01
Window 177	Domestic	24.3%	24.6%	-0.3%	1.01
Window 178	Domestic	24.9%	25.1%	-0.2%	1.01
Window 179	Domestic	39.4%	39.4%	0.0%	1.0
Window 180	Domestic	31.7%	31.7%	0.0%	1.0
Window 181	Domestic	19.3%	19.3%	0.0%	1.0
Window 182	Domestic	13.0%	13.0%	0.0%	1.0
Window 183	Domestic	96.6%	96.6%	0.0%	1.0
Window 184	Domestic	29.4%	29.3%	0.1%	1.0
Window 185	Domestic	35.7%	35.7%	0.0%	1.0
Window 186	Domestic	24.8%	24.8%	0.0%	1.0
Window 187	Domestic	25.4%	25.4%	0.0%	1.0
Window 188	Domestic	96.9%	96.9%	0.0%	1.0
Window 189	Domestic	29.2%	29.2%	0.0%	1.0
Window 190	Domestic	21.8%	21.7%	0.1%	1.0
Window 191	Domestic	10.9%	10.9%	0.0%	1.0
Window 192	Domestic	56.6%	56.6%	0.0%	1.0
Window 193	Domestic	92.7%	92.7%	0.0%	1.0
Window 194	Domestic	35.5%	35.4%	0.1%	1.0
Window 195	Domestic	95.7%	95.7%	0.0%	1.0
<b><u>2 Macklin Street</u></b>					
Window 196	Shop	7.0%	7.0%	0.0%	1.0
Window 197	Shop	1.6%	1.6%	0.0%	1.0
Window 198	Shop	9.9%	9.9%	0.0%	1.0
Window 199	Shop	0.1%	0.1%	0.0%	1.0
Window 200	Shop	10.7%	10.7%	0.0%	1.0
Window 201	Shop	10.9%	10.9%	0.0%	1.0
Window 202	Office	13.9%	13.9%	0.0%	1.0
Window 203	Office	0.1%	0.1%	0.0%	1.0
Window 204	Office	0.1%	0.1%	0.0%	1.0
Window 205	Office	16.3%	16.2%	0.1%	0.99
Window 206	Office	13.5%	13.5%	0.0%	1.0

## Appendix 2 - Vertical Sky Component

Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Vertical Sky Component			
		Before	After	Loss	Ratio
Window 207	Staircase	10.8%	10.8%	0.0%	1.0
Window 208	Staircase	14.6%	14.6%	0.0%	1.0
Window 209	Staircase	23.2%	23.2%	0.0%	1.0
Window 210	Living Room	17.8%	17.8%	0.0%	1.0
Window 211	Living Room	20.6%	20.6%	0.0%	1.0
Window 212	Living Room	22.5%	22.5%	0.0%	1.0
Window 213	Living Room	23.1%	23.1%	0.0%	1.0
Window 214	Living Room	23.1%	23.1%	0.0%	1.0
Window 215	Living Room	23.1%	23.1%	0.0%	1.0
Window 216	Kitchen	24.0%	24.0%	0.0%	1.0
Window 217	Kitchen	27.4%	27.4%	0.0%	1.0
Window 218	Kitchen	29.7%	29.7%	0.0%	1.0
Window 219	Kitchen	30.6%	30.6%	0.0%	1.0
Window 220	Kitchen	30.7%	30.7%	0.0%	1.0
Window 221	Kitchen	30.7%	30.7%	0.0%	1.0
Window 222	Kitchen	9.5%	9.5%	0.0%	1.0
Window 223	Kitchen	29.4%	29.4%	0.0%	1.0
Window 224	Kitchen	7.0%	7.0%	0.0%	1.0
Window 225	Kitchen	21.3%	21.3%	0.0%	1.0
Window 226	Kitchen	10.9%	10.9%	0.0%	1.0
Window 227	Kitchen	34.7%	34.7%	0.0%	1.0
Window 228	Kitchen	12.7%	12.7%	0.0%	1.0
Window 229	Kitchen	27.4%	27.4%	0.0%	1.0
Window 230	Kitchen	12.3%	12.3%	0.0%	1.0
Window 231	Kitchen	37.6%	37.6%	0.0%	1.0
Window 232	Kitchen	13.4%	13.4%	0.0%	1.0
Window 233	Kitchen	29.8%	29.8%	0.0%	1.0
Window 234	Kitchen	13.2%	13.2%	0.0%	1.0
Window 235	Kitchen	38.9%	38.9%	0.0%	1.0
Window 236	Kitchen	13.9%	13.9%	0.0%	1.0
Window 237	Kitchen	30.7%	30.7%	0.0%	1.0
Window 238	Kitchen	13.5%	13.5%	0.0%	1.0
Window 239	Kitchen	39.3%	39.3%	0.0%	1.0
Window 240	Kitchen	14.1%	14.1%	0.0%	1.0
Window 241	Kitchen	30.9%	30.9%	0.0%	1.0
Window 242	Kitchen	13.5%	13.5%	0.0%	1.0
Window 243	Kitchen	39.4%	39.4%	0.0%	1.0
Window 244	Kitchen	14.2%	14.2%	0.0%	1.0
Window 245	Kitchen	31.0%	31.0%	0.0%	1.0
Window 246	Living Room	3.1%	3.1%	0.0%	1.0
Window 247	Living Room	21.4%	21.4%	0.0%	1.0
Window 248	Living Room	21.6%	21.6%	0.0%	1.0
Window 249	Living Room	21.8%	21.8%	0.0%	1.0
Window 250	Living Room	21.9%	21.9%	0.0%	1.0
Window 251	Living Room	21.9%	21.9%	0.0%	1.0

## Appendix 2 - Daylight Distribution

### Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Daylight Distribution			
		Before	After	Loss	Ratio
<u>9 Macklin Street</u>					
Window 27	Staircase	67%	67%	0.0%	1.0
<u>16 Stukeley Street</u>					
Window 28	Entrance Lobby	21%	21%	0.0%	1.0
Window 29	Entrance Lobby	21%	21%	0.0%	1.0
Window 30	Entrance Lobby	21%	21%	0.0%	1.0
Window 31	Entrance Lobby	21%	21%	0.0%	1.0
Window 32	Entrance Lobby	21%	21%	0.0%	1.0
Window 34	Entrance Lobby	21%	21%	0.0%	1.0
Window 35	Entrance Lobby	21%	21%	0.0%	1.0
Window 36	Entrance Lobby	21%	21%	0.0%	1.0
Window 37	Entrance Lobby	21%	21%	0.0%	1.0
Window 33	Entrance Lobby	21%	21%	0.0%	1.0
Window 38	Plant and Boiler Room	73%	73%	0.0%	1.0
Window 39	Plant and Boiler Room	73%	73%	0.0%	1.0
Window 40	Plant and Boiler Room	73%	73%	0.0%	1.0
Window 41	Plant and Boiler Room	73%	73%	0.0%	1.0
Window 42	Cafe	70%	70%	0.0%	1.0
Window 43	Cafe	70%	70%	0.0%	1.0
Window 44	Cafe	70%	70%	0.0%	1.0
Window 45	Cafe	70%	70%	0.0%	1.0
Window 33	Cafe	70%	70%	0.0%	1.0
Window 32	Cafe	70%	70%	0.0%	1.0
Window 46	Classroom	99%	99%	0.0%	1.0
Window 47	Classroom	99%	99%	0.0%	1.0
Window 48	Classroom	99%	99%	0.0%	1.0
Window 49	Classroom	99%	99%	0.0%	1.0
Window 50	Classroom	99%	99%	0.0%	1.0
Window 51	Classroom	99%	99%	0.0%	1.0
Window 52	Classroom	99%	99%	0.0%	1.0
Window 53	Classroom	98%	98%	0.0%	1.0
Window 54	Classroom	98%	98%	0.0%	1.0
Window 55	Classroom	98%	98%	0.0%	1.0
Window 56	Classroom	98%	98%	0.0%	1.0
Window 57	Classroom	98%	98%	0.0%	1.0
Window 58	Executive Classroom	100%	100%	0.0%	1.0
Window 59	Executive Classroom	100%	100%	0.0%	1.0
Window 60	Executive Center Reception	86%	86%	0.0%	1.0
Window 61	Executive Center Reception	86%	86%	0.0%	1.0
Window 62	Executive Center Reception	86%	86%	0.0%	1.0
Window 63	Staircase	45%	44%	1.0%	0.98
Window 64	Staircase	67%	2%	65.0%	0.03

## Appendix 2 - Daylight Distribution

Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Daylight Distribution			
		Before	After	Loss	Ratio
Window 65	Staircase	97%	97%	0.0%	1.0
Window 66	Staircase	100%	100%	0.0%	1.0
Window 67	Classroom	89%	64%	25.0%	0.72
Window 68	Classroom	89%	64%	25.0%	0.72
Window 69	Classroom	94%	70%	24.0%	0.74
Window 70	Classroom	94%	70%	24.0%	0.74
Window 71	Classroom	100%	100%	0.0%	1.0
Window 72	Classroom	100%	100%	0.0%	1.0
Window 73	Classroom	100%	100%	0.0%	1.0
Window 74	Classroom	100%	100%	0.0%	1.0
Window 75	Executive Classroom	100%	100%	0.0%	1.0
Window 76	Classroom	79%	64%	15.0%	0.81
Window 77	Classroom	93%	66%	27.0%	0.71
Window 78	Classroom	100%	100%	0.0%	1.0
Window 79	Classroom	100%	100%	0.0%	1.0
Window 80	Classroom	100%	100%	0.0%	1.0
Window 81	Staircase	71%	71%	0.0%	1.0
Window 82	Staircase	1%	1%	0.0%	1.0
Window 83	Bathroom/WC	99%	99%	0.0%	1.0
Window 84	Bathroom/WC	99%	99%	0.0%	1.0
Window 85	Bathroom/WC	100%	100%	0.0%	1.0
Window 86	Bathroom/WC	97%	97%	0.0%	1.0
Window 87	Bathroom/WC	96%	96%	0.0%	1.0
Window 88	Bathroom/WC	65%	65%	0.0%	1.0
Window 89	Bathroom/WC	100%	100%	0.0%	1.0
Window 90	Domestic	100%	100%	0.0%	1.0
Window 91	Domestic	100%	100%	0.0%	1.0
Window 92	Domestic	100%	100%	0.0%	1.0
Window 93	Domestic	100%	100%	0.0%	1.0
Window 94	Classroom	100%	100%	0.0%	1.0
Window 95	Classroom	100%	100%	0.0%	1.0
Window 96	Classroom	100%	100%	0.0%	1.0
Window 97	Classroom	100%	100%	0.0%	1.0
Window 98	Classroom	100%	100%	0.0%	1.0
Window 99	Classroom	100%	100%	0.0%	1.0
Window 100	Staircase	1%	1%	0.0%	1.0
Window 101	Staircase	100%	100%	0.0%	1.0
Window 102	Staircase	100%	100%	0.0%	1.0
Window 103	Staircase	79%	79%	0.0%	1.0
Window 104	Staircase	79%	79%	0.0%	1.0
Window 105	Staircase	87%	87%	0.0%	1.0
Window 106	Staircase	87%	87%	0.0%	1.0
Window 107	Classroom	99%	99%	0.0%	1.0
Window 108	Domestic	94%	94%	0.0%	1.0

## Appendix 2 - Daylight Distribution

### Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Daylight Distribution			
		Before	After	Loss	Ratio
Window 109	Domestic	100%	100%	0.0%	1.0
Window 110	Domestic	100%	100%	0.0%	1.0
Window 111	Domestic	100%	100%	0.0%	1.0
<b>10 to 14 Macklin Street</b>					
Window 128	Domestic	46%	46%	0.0%	1.0
Window 129	Domestic	46%	46%	0.0%	1.0
Window 130	Domestic	46%	46%	0.0%	1.0
Window 131	Domestic	46%	46%	0.0%	1.0
Window 132	Domestic	46%	46%	0.0%	1.0
Window 133	Domestic	46%	46%	0.0%	1.0
Window 134	Domestic	46%	46%	0.0%	1.0
Window 135	Domestic	46%	46%	0.0%	1.0
Window 136	Domestic	46%	46%	0.0%	1.0
Window 137	Domestic	46%	46%	0.0%	1.0
Window 138	Domestic	80%	80%	0.0%	1.0
Window 139	Domestic	80%	80%	0.0%	1.0
Window 140	Domestic	80%	80%	0.0%	1.0
Window 141	Domestic	80%	80%	0.0%	1.0
Window 142	Domestic	80%	80%	0.0%	1.0
Window 143	Domestic	80%	80%	0.0%	1.0
Window 144	Domestic	80%	80%	0.0%	1.0
Window 145	Domestic	80%	80%	0.0%	1.0
Window 146	Domestic	80%	80%	0.0%	1.0
Window 147	Domestic	80%	80%	0.0%	1.0
Window 148	Domestic	80%	80%	0.0%	1.0
Window 149	Domestic	80%	80%	0.0%	1.0
Window 150	Domestic	80%	80%	0.0%	1.0
Window 151	Domestic	91%	91%	0.0%	1.0
Window 152	Domestic	91%	91%	0.0%	1.0
Window 153	Domestic	91%	91%	0.0%	1.0
Window 154	Domestic	91%	91%	0.0%	1.0
Window 155	Domestic	91%	91%	0.0%	1.0
Window 156	Domestic	91%	91%	0.0%	1.0
Window 157	Domestic	91%	91%	0.0%	1.0
Window 158	Domestic	91%	91%	0.0%	1.0
Window 159	Domestic	91%	91%	0.0%	1.0
Window 160	Domestic	91%	91%	0.0%	1.0
Window 161	Domestic	91%	91%	0.0%	1.0
Window 162	Domestic	91%	91%	0.0%	1.0
Window 163	Domestic	91%	91%	0.0%	1.0
Window 164	Domestic	100%	100%	0.0%	1.0
Window 165	Domestic	100%	100%	0.0%	1.0
Window 166	Domestic	100%	100%	0.0%	1.0

## Appendix 2 - Daylight Distribution

Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Daylight Distribution			
		Before	After	Loss	Ratio
Window 167	Domestic	100%	100%	0.0%	1.0
Window 168	Domestic	100%	100%	0.0%	1.0
Window 169	Domestic	100%	100%	0.0%	1.0
Window 170	Domestic	100%	100%	0.0%	1.0
Window 171	Domestic	100%	100%	0.0%	1.0
Window 172	Domestic	100%	100%	0.0%	1.0
Window 173	Domestic	83%	83%	0.0%	1.0
Window 174	Domestic	83%	83%	0.0%	1.0
Window 175	Domestic	83%	83%	0.0%	1.0
Window 176	Domestic	83%	83%	0.0%	1.0
Window 177	Domestic	83%	83%	0.0%	1.0
Window 178	Domestic	83%	83%	0.0%	1.0
Window 179	Domestic	100%	100%	0.0%	1.0
Window 180	Domestic	100%	100%	0.0%	1.0
Window 181	Domestic	100%	100%	0.0%	1.0
Window 182	Domestic	100%	100%	0.0%	1.0
Window 183	Domestic	100%	100%	0.0%	1.0
Window 184	Domestic	39%	38%	1.0%	0.97
Window 185	Domestic	100%	100%	0.0%	1.0
Window 186	Domestic	100%	100%	0.0%	1.0
Window 187	Domestic	100%	100%	0.0%	1.0
Window 188	Domestic	100%	100%	0.0%	1.0
Window 189	Domestic	36%	33%	3.0%	0.92
Window 190	Domestic	100%	100%	0.0%	1.0
Window 191	Domestic	100%	100%	0.0%	1.0
Window 192	Domestic	100%	100%	0.0%	1.0
Window 193	Domestic	100%	100%	0.0%	1.0
Window 194	Domestic	98%	98%	0.0%	1.0
Window 195	Domestic	98%	98%	0.0%	1.0
<b>2 Macklin Street</b>					
Window 196	Shop	8%	8%	0.0%	1.0
Window 197	Shop	8%	8%	0.0%	1.0
Window 198	Shop	8%	8%	0.0%	1.0
Window 199	Shop	8%	8%	0.0%	1.0
Window 200	Shop	8%	8%	0.0%	1.0
Window 201	Shop	8%	8%	0.0%	1.0
Window 202	Office	76%	76%	0.0%	1.0
Window 203	Office	1%	1%	0.0%	1.0
Window 204	Office	1%	1%	0.0%	1.0
Window 205	Office	16%	16%	0.0%	1.0
Window 206	Office	21%	21%	0.0%	1.0
Window 207	Staircase	40%	40%	0.0%	1.0
Window 208	Staircase	1%	1%	0.0%	1.0

## Appendix 2 - Daylight Distribution

Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Daylight Distribution			
		Before	After	Loss	Ratio
Window 209	Staircase	100%	100%	0.0%	1.0
Window 210	Living Room	76%	76%	0.0%	1.0
Window 211	Living Room	76%	76%	0.0%	1.0
Window 212	Living Room	76%	76%	0.0%	1.0
Window 213	Living Room	76%	76%	0.0%	1.0
Window 214	Living Room	76%	76%	0.0%	1.0
Window 215	Living Room	76%	76%	0.0%	1.0
Window 216	Kitchen	72%	72%	0.0%	1.0
Window 217	Kitchen	72%	72%	0.0%	1.0
Window 218	Kitchen	72%	72%	0.0%	1.0
Window 219	Kitchen	72%	72%	0.0%	1.0
Window 220	Kitchen	72%	72%	0.0%	1.0
Window 221	Kitchen	72%	72%	0.0%	1.0
Window 222	Kitchen	87%	87%	0.0%	1.0
Window 223	Kitchen	87%	87%	0.0%	1.0
Window 224	Kitchen	87%	87%	0.0%	1.0
Window 225	Kitchen	87%	87%	0.0%	1.0
Window 226	Kitchen	98%	98%	0.0%	1.0
Window 227	Kitchen	98%	98%	0.0%	1.0
Window 228	Kitchen	98%	98%	0.0%	1.0
Window 229	Kitchen	98%	98%	0.0%	1.0
Window 230	Kitchen	98%	98%	0.0%	1.0
Window 231	Kitchen	98%	98%	0.0%	1.0
Window 232	Kitchen	98%	98%	0.0%	1.0
Window 233	Kitchen	98%	98%	0.0%	1.0
Window 234	Kitchen	98%	98%	0.0%	1.0
Window 235	Kitchen	98%	98%	0.0%	1.0
Window 236	Kitchen	98%	98%	0.0%	1.0
Window 237	Kitchen	98%	98%	0.0%	1.0
Window 238	Kitchen	98%	98%	0.0%	1.0
Window 239	Kitchen	98%	98%	0.0%	1.0
Window 240	Kitchen	98%	98%	0.0%	1.0
Window 241	Kitchen	98%	98%	0.0%	1.0
Window 242	Kitchen	98%	98%	0.0%	1.0
Window 243	Kitchen	98%	98%	0.0%	1.0
Window 244	Kitchen	98%	98%	0.0%	1.0
Window 245	Kitchen	98%	98%	0.0%	1.0
Window 246	Living Room	62%	62%	0.0%	1.0
Window 247	Living Room	92%	92%	0.0%	1.0
Window 248	Living Room	92%	92%	0.0%	1.0
Window 249	Living Room	92%	92%	0.0%	1.0
Window 250	Living Room	92%	92%	0.0%	1.0
Window 251	Living Room	92%	92%	0.0%	1.0

## Appendix 2 - Sunlight to Windows

### Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Sunlight to Windows								
		Total Sunlight Hours				Winter Sunlight Hours				
		Before	After	Loss	Ratio	Before	After	Loss	Ratio	
<u>12 Stukeley Street</u>										
Window 1	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 2	Domestic	1%	1%	0%	1.0	0%	0%	0%	1.0	
Window 3	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 4	Domestic	2%	2%	0%	1.0	0%	0%	0%	1.0	
Window 5	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 6	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 7	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 8	Domestic	10%	10%	0%	1.0	0%	0%	0%	1.0	
Window 9	Domestic	7%	7%	0%	1.0	0%	0%	0%	1.0	
Window 10	Domestic	4%	4%	0%	1.0	0%	0%	0%	1.0	
Window 11	Domestic	2%	2%	0%	1.0	0%	0%	0%	1.0	
<u>14 Stukeley Street</u>										
Window 12	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 13	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 14	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 15	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 16	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 17	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 18	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 19	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 20	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 21	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 22	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 23	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 24	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 25	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 26	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
<u>9 Macklin Street</u>										
Window 27	Staircase	7%	7%	0%	1.0	0%	0%	0%	1.0	
<u>16 Stukeley Street</u>										
Window 28	Entrance Lobby	4%	4%	0%	1.0	0%	0%	0%	1.0	
Window 29	Entrance Lobby	4%	4%	0%	1.0	0%	0%	0%	1.0	
Window 30	Entrance Lobby	7%	7%	0%	1.0	0%	0%	0%	1.0	
Window 31	Entrance Lobby	1%	1%	0%	1.0	0%	0%	0%	1.0	
Window 32	Entrance Lobby	14%	14%	0%	1.0	0%	0%	0%	1.0	
Window 33	Entrance Lobby	27%	27%	0%	1.0	2%	2%	0%	1.0	
Window 34	Entrance Lobby	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 35	Entrance Lobby	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 36	Entrance Lobby	0%	0%	0%	1.0	0%	0%	0%	1.0	

## Appendix 2 - Sunlight to Windows

Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Sunlight to Windows							
		Total Sunlight Hours				Winter Sunlight Hours			
		Before	After	Loss	Ratio	Before	After	Loss	Ratio
Window 37	Entrance Lobby	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 38	Plant and Boiler Room	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 39	Plant and Boiler Room	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 40	Plant and Boiler Room	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 41	Plant and Boiler Room	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 32	Cafe	14%	14%	0%	1.0	0%	0%	0%	1.0
Window 33	Cafe	27%	27%	0%	1.0	2%	2%	0%	1.0
Window 42	Cafe	28%	27%	1%	0.96	4%	4%	0%	1.0
Window 43	Cafe	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 44	Cafe	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 45	Cafe	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 46	Classroom	54%	54%	0%	1.0	14%	14%	0%	1.0
Window 47	Classroom	52%	52%	0%	1.0	13%	13%	0%	1.0
Window 48	Classroom	28%	28%	0%	1.0	5%	5%	0%	1.0
Window 49	Classroom	65%	65%	0%	1.0	21%	21%	0%	1.0
Window 50	Classroom	63%	63%	0%	1.0	19%	19%	0%	1.0
Window 51	Classroom	62%	62%	0%	1.0	18%	18%	0%	1.0
Window 52	Classroom	41%	41%	0%	1.0	10%	10%	0%	1.0
Window 53	Classroom	67%	67%	0%	1.0	23%	23%	0%	1.0
Window 54	Classroom	66%	66%	0%	1.0	22%	22%	0%	1.0
Window 55	Classroom	61%	61%	0%	1.0	16%	16%	0%	1.0
Window 56	Classroom	67%	67%	0%	1.0	23%	23%	0%	1.0
Window 57	Classroom	53%	53%	0%	1.0	21%	21%	0%	1.0
Window 58	Executive Classroom	59%	59%	0%	1.0	22%	22%	0%	1.0
Window 59	Executive Classroom	60%	60%	0%	1.0	23%	23%	0%	1.0
Window 60	Executive Center Reception	60%	60%	0%	1.0	23%	23%	0%	1.0
Window 61	Executive Center Reception	35%	35%	0%	1.0	21%	21%	0%	1.0
Window 62	Executive Center Reception	44%	44%	0%	1.0	18%	18%	0%	1.0
Window 63	Staircase	35%	35%	0%	1.0	7%	7%	0%	1.0
Window 64	Staircase	51%	50%	1%	0.98	12%	12%	0%	1.0
Window 65	Staircase	64%	64%	0%	1.0	17%	17%	0%	1.0
Window 66	Staircase	68%	68%	0%	1.0	21%	21%	0%	1.0
Window 67	Classroom	28%	28%	0%	1.0	4%	4%	0%	1.0
Window 68	Classroom	29%	28%	1%	0.97	2%	2%	0%	1.0
Window 69	Classroom	45%	43%	2%	0.96	8%	7%	1%	0.88
Window 70	Classroom	46%	44%	2%	0.96	10%	8%	2%	0.8
Window 71	Classroom	61%	60%	1%	0.98	16%	15%	1%	0.94
Window 72	Classroom	61%	60%	1%	0.98	17%	16%	1%	0.94
Window 73	Classroom	65%	65%	0%	1.0	18%	18%	0%	1.0
Window 74	Classroom	67%	66%	1%	0.99	20%	19%	1%	0.95
Window 75	Executive Classroom	41%	41%	0%	1.0	14%	14%	0%	1.0
Window 76	Classroom	28%	25%	3%	0.89	4%	2%	2%	0.5
Window 77	Classroom	39%	37%	2%	0.95	9%	8%	1%	0.89
Window 78	Classroom	59%	59%	0%	1.0	15%	15%	0%	1.0

## Appendix 2 - Sunlight to Windows

Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Sunlight to Windows								
		Total Sunlight Hours				Winter Sunlight Hours				
		Before	After	Loss	Ratio	Before	After	Loss	Ratio	
Window 79	Classroom	67%	66%	1%	0.99	20%	19%	1%	0.95	
Window 80	Classroom	38%	38%	0%	1.0	19%	19%	0%	1.0	
Window 81	Staircase	59%	59%	0%	1.0	13%	13%	0%	1.0	
Window 82	Staircase	67%	67%	0%	1.0	20%	20%	0%	1.0	
Window 83	Bathroom/WC	58%	60%	-2%	1.03	16%	18%	-2%	1.13	
Window 84	Bathroom/WC	68%	68%	0%	1.0	21%	21%	0%	1.0	
Window 85	Bathroom/WC	36%	36%	0%	1.0	10%	10%	0%	1.0	
Window 86	Bathroom/WC	53%	53%	0%	1.0	16%	16%	0%	1.0	
Window 87	Bathroom/WC	68%	68%	0%	1.0	21%	21%	0%	1.0	
Window 88	Bathroom/WC	43%	43%	0%	1.0	16%	16%	0%	1.0	
Window 89	Bathroom/WC	46%	46%	0%	1.0	19%	19%	0%	1.0	
Window 90	Domestic	69%	69%	0%	1.0	22%	22%	0%	1.0	
Window 91	Domestic	27%	27%	0%	1.0	4%	4%	0%	1.0	
Window 92	Domestic	54%	54%	0%	1.0	11%	11%	0%	1.0	
Window 93	Domestic	27%	27%	0%	1.0	4%	4%	0%	1.0	
Window 94	Classroom	31%	31%	0%	1.0	8%	8%	0%	1.0	
Window 95	Classroom	26%	25%	1%	0.96	3%	3%	0%	1.0	
Window 96	Classroom	2%	2%	0%	1.0	0%	0%	0%	1.0	
Window 97	Classroom	6%	6%	0%	1.0	0%	0%	0%	1.0	
Window 98	Classroom	37%	37%	0%	1.0	12%	12%	0%	1.0	
Window 99	Classroom	34%	34%	0%	1.0	6%	6%	0%	1.0	
Window 100	Staircase	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 101	Staircase	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 102	Staircase	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 103	Staircase	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 104	Staircase	9%	9%	0%	1.0	0%	0%	0%	1.0	
Window 105	Staircase	10%	11%	-1%	1.1	0%	0%	0%	1.0	
Window 106	Staircase	7%	7%	0%	1.0	0%	0%	0%	1.0	
Window 107	Classroom	29%	28%	1%	0.97	3%	2%	1%	0.67	
Window 108	Domestic	28%	28%	0%	1.0	4%	3%	1%	0.75	
Window 109	Domestic	64%	63%	1%	0.98	17%	16%	1%	0.94	
Window 110	Domestic	67%	65%	2%	0.97	20%	18%	2%	0.9	
Window 111	Domestic	27%	27%	0%	1.0	4%	4%	0%	1.0	
<b>1 to 6 Powis House</b>										
Window 112	Domestic	8%	8%	0%	1.0	0%	0%	0%	1.0	
Window 113	Domestic	9%	9%	0%	1.0	0%	0%	0%	1.0	
Window 114	Domestic	14%	14%	0%	1.0	1%	1%	0%	1.0	
Window 115	Domestic	8%	8%	0%	1.0	0%	0%	0%	1.0	
Window 116	Domestic	8%	8%	0%	1.0	0%	0%	0%	1.0	
Window 117	Domestic	13%	13%	0%	1.0	1%	1%	0%	1.0	
Window 118	Domestic	8%	7%	1%	0.88	0%	0%	0%	1.0	
Window 119	Domestic	8%	8%	0%	1.0	0%	0%	0%	1.0	
Window 120	Domestic	13%	13%	0%	1.0	1%	1%	0%	1.0	

## Appendix 2 - Sunlight to Windows

Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Sunlight to Windows								
		Total Sunlight Hours				Winter Sunlight Hours				
		Before	After	Loss	Ratio	Before	After	Loss	Ratio	
Window 121	Domestic	15%	15%	0%	1.0	1%	1%	0%	1.0	
Window 122	Domestic	7%	7%	0%	1.0	0%	0%	0%	1.0	
Window 123	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 124	Domestic	8%	8%	0%	1.0	0%	0%	0%	1.0	
Window 125	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 126	Domestic	11%	11%	0%	1.0	1%	1%	0%	1.0	
Window 127	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
<b>10 to 14 Macklin Street</b>										
Window 128	Domestic	6%	6%	0%	1.0	0%	0%	0%	1.0	
Window 129	Domestic	8%	8%	0%	1.0	1%	1%	0%	1.0	
Window 130	Domestic	9%	9%	0%	1.0	1%	1%	0%	1.0	
Window 131	Domestic	8%	8%	0%	1.0	1%	1%	0%	1.0	
Window 132	Domestic	9%	9%	0%	1.0	1%	1%	0%	1.0	
Window 133	Domestic	9%	9%	0%	1.0	1%	1%	0%	1.0	
Window 134	Domestic	9%	9%	0%	1.0	1%	1%	0%	1.0	
Window 135	Domestic	8%	8%	0%	1.0	1%	1%	0%	1.0	
Window 136	Domestic	9%	9%	0%	1.0	1%	1%	0%	1.0	
Window 137	Domestic	9%	9%	0%	1.0	1%	1%	0%	1.0	
Window 138	Domestic	7%	7%	0%	1.0	0%	0%	0%	1.0	
Window 139	Domestic	9%	9%	0%	1.0	0%	0%	0%	1.0	
Window 140	Domestic	10%	10%	0%	1.0	1%	1%	0%	1.0	
Window 141	Domestic	10%	10%	0%	1.0	1%	1%	0%	1.0	
Window 142	Domestic	10%	10%	0%	1.0	1%	1%	0%	1.0	
Window 143	Domestic	10%	10%	0%	1.0	1%	1%	0%	1.0	
Window 144	Domestic	10%	10%	0%	1.0	1%	1%	0%	1.0	
Window 145	Domestic	10%	10%	0%	1.0	1%	1%	0%	1.0	
Window 146	Domestic	10%	10%	0%	1.0	1%	1%	0%	1.0	
Window 147	Domestic	10%	10%	0%	1.0	1%	1%	0%	1.0	
Window 148	Domestic	10%	10%	0%	1.0	1%	1%	0%	1.0	
Window 149	Domestic	10%	10%	0%	1.0	1%	1%	0%	1.0	
Window 150	Domestic	10%	10%	0%	1.0	1%	1%	0%	1.0	
Window 151	Domestic	13%	12%	1%	0.92	1%	1%	0%	1.0	
Window 152	Domestic	11%	11%	0%	1.0	1%	1%	0%	1.0	
Window 153	Domestic	11%	11%	0%	1.0	1%	1%	0%	1.0	
Window 154	Domestic	12%	11%	1%	0.92	1%	1%	0%	1.0	
Window 155	Domestic	12%	12%	0%	1.0	1%	1%	0%	1.0	
Window 156	Domestic	11%	11%	0%	1.0	1%	1%	0%	1.0	
Window 157	Domestic	14%	14%	0%	1.0	1%	1%	0%	1.0	
Window 158	Domestic	12%	12%	0%	1.0	1%	1%	0%	1.0	
Window 159	Domestic	14%	14%	0%	1.0	1%	1%	0%	1.0	
Window 160	Domestic	14%	14%	0%	1.0	1%	1%	0%	1.0	
Window 161	Domestic	13%	14%	-1%	1.08	1%	1%	0%	1.0	
Window 162	Domestic	14%	14%	0%	1.0	1%	1%	0%	1.0	

## Appendix 2 - Sunlight to Windows

Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Sunlight to Windows								
		Total Sunlight Hours				Winter Sunlight Hours				
		Before	After	Loss	Ratio	Before	After	Loss	Ratio	
Window 163	Domestic	14%	14%	0%	1.0	1%	1%	0%	1.0	
Window 164	Domestic	19%	19%	0%	1.0	0%	0%	0%	1.0	
Window 165	Domestic	22%	22%	0%	1.0	1%	1%	0%	1.0	
Window 166	Domestic	13%	13%	0%	1.0	0%	0%	0%	1.0	
Window 167	Domestic	16%	15%	1%	0.94	1%	1%	0%	1.0	
Window 168	Domestic	15%	15%	0%	1.0	2%	2%	0%	1.0	
Window 169	Domestic	16%	16%	0%	1.0	2%	2%	0%	1.0	
Window 170	Domestic	15%	15%	0%	1.0	2%	2%	0%	1.0	
Window 171	Domestic	18%	18%	0%	1.0	1%	1%	0%	1.0	
Window 172	Domestic	12%	12%	0%	1.0	0%	0%	0%	1.0	
Window 173	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 174	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 175	Domestic	16%	16%	0%	1.0	2%	2%	0%	1.0	
Window 176	Domestic	16%	16%	0%	1.0	2%	2%	0%	1.0	
Window 177	Domestic	17%	17%	0%	1.0	2%	2%	0%	1.0	
Window 178	Domestic	18%	18%	0%	1.0	2%	2%	0%	1.0	
Window 179	Domestic	24%	24%	0%	1.0	3%	3%	0%	1.0	
Window 180	Domestic	9%	9%	0%	1.0	0%	0%	0%	1.0	
Window 181	Domestic	32%	32%	0%	1.0	5%	5%	0%	1.0	
Window 182	Domestic	23%	23%	0%	1.0	5%	5%	0%	1.0	
Window 183	Domestic	92%	92%	0%	1.0	22%	22%	0%	1.0	
Window 184	Domestic	19%	20%	-1%	1.05	2%	2%	0%	1.0	
Window 185	Domestic	22%	22%	0%	1.0	2%	2%	0%	1.0	
Window 186	Domestic	50%	50%	0%	1.0	13%	13%	0%	1.0	
Window 187	Domestic	46%	46%	0%	1.0	11%	11%	0%	1.0	
Window 188	Domestic	89%	89%	0%	1.0	20%	20%	0%	1.0	
Window 189	Domestic	6%	6%	0%	1.0	0%	0%	0%	1.0	
Window 190	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 191	Domestic	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 192	Domestic	33%	33%	0%	1.0	5%	5%	0%	1.0	
Window 193	Domestic	84%	84%	0%	1.0	17%	17%	0%	1.0	
Window 194	Domestic	13%	13%	0%	1.0	1%	1%	0%	1.0	
Window 195	Domestic	85%	85%	0%	1.0	18%	18%	0%	1.0	
<b>2 Macklin Street</b>										
Window 196	Shop	6%	6%	0%	1.0	1%	1%	0%	1.0	
Window 197	Shop	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 198	Shop	11%	11%	0%	1.0	2%	2%	0%	1.0	
Window 199	Shop	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 200	Shop	12%	12%	0%	1.0	2%	2%	0%	1.0	
Window 201	Shop	12%	12%	0%	1.0	2%	2%	0%	1.0	
Window 202	Office	12%	12%	0%	1.0	2%	2%	0%	1.0	
Window 203	Office	0%	0%	0%	1.0	0%	0%	0%	1.0	
Window 204	Office	0%	0%	0%	1.0	0%	0%	0%	1.0	

## Appendix 2 - Sunlight to Windows

Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Sunlight to Windows							
		Total Sunlight Hours				Winter Sunlight Hours			
		Before	After	Loss	Ratio	Before	After	Loss	Ratio
Window 205	Office	8%	8%	0%	1.0	0%	0%	0%	1.0
Window 206	Office	8%	8%	0%	1.0	0%	0%	0%	1.0
Window 207	Staircase	12%	12%	0%	1.0	2%	2%	0%	1.0
Window 208	Staircase	14%	14%	0%	1.0	2%	2%	0%	1.0
Window 209	Staircase	18%	18%	0%	1.0	3%	3%	0%	1.0
Window 210	Living Room	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 211	Living Room	2%	2%	0%	1.0	0%	0%	0%	1.0
Window 212	Living Room	3%	3%	0%	1.0	0%	0%	0%	1.0
Window 213	Living Room	3%	3%	0%	1.0	0%	0%	0%	1.0
Window 214	Living Room	3%	3%	0%	1.0	0%	0%	0%	1.0
Window 215	Living Room	3%	3%	0%	1.0	0%	0%	0%	1.0
Window 216	Kitchen	4%	4%	0%	1.0	0%	0%	0%	1.0
Window 217	Kitchen	4%	4%	0%	1.0	0%	0%	0%	1.0
Window 218	Kitchen	5%	5%	0%	1.0	0%	0%	0%	1.0
Window 219	Kitchen	5%	5%	0%	1.0	0%	0%	0%	1.0
Window 220	Kitchen	5%	5%	0%	1.0	0%	0%	0%	1.0
Window 221	Kitchen	5%	5%	0%	1.0	0%	0%	0%	1.0
Window 222	Kitchen	13%	13%	0%	1.0	0%	0%	0%	1.0
Window 223	Kitchen	17%	17%	0%	1.0	0%	0%	0%	1.0
Window 224	Kitchen	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 225	Kitchen	9%	9%	0%	1.0	0%	0%	0%	1.0
Window 226	Kitchen	14%	14%	0%	1.0	0%	0%	0%	1.0
Window 227	Kitchen	18%	18%	0%	1.0	0%	0%	0%	1.0
Window 228	Kitchen	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 229	Kitchen	11%	11%	0%	1.0	0%	0%	0%	1.0
Window 230	Kitchen	17%	17%	0%	1.0	1%	1%	0%	1.0
Window 231	Kitchen	22%	22%	0%	1.0	1%	1%	0%	1.0
Window 232	Kitchen	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 233	Kitchen	13%	13%	0%	1.0	1%	1%	0%	1.0
Window 234	Kitchen	18%	18%	0%	1.0	2%	2%	0%	1.0
Window 235	Kitchen	23%	23%	0%	1.0	2%	2%	0%	1.0
Window 236	Kitchen	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 237	Kitchen	14%	14%	0%	1.0	2%	2%	0%	1.0
Window 238	Kitchen	18%	18%	0%	1.0	2%	2%	0%	1.0
Window 239	Kitchen	23%	23%	0%	1.0	2%	2%	0%	1.0
Window 240	Kitchen	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 241	Kitchen	14%	14%	0%	1.0	2%	2%	0%	1.0
Window 242	Kitchen	18%	18%	0%	1.0	2%	2%	0%	1.0
Window 243	Kitchen	24%	24%	0%	1.0	3%	3%	0%	1.0
Window 244	Kitchen	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 245	Kitchen	14%	14%	0%	1.0	2%	2%	0%	1.0
Window 246	Living Room	0%	0%	0%	1.0	0%	0%	0%	1.0
Window 247	Living Room	3%	3%	0%	1.0	0%	0%	0%	1.0
Window 248	Living Room	3%	3%	0%	1.0	0%	0%	0%	1.0

## Appendix 2 - Sunlight to Windows

Lupus House, 11 to 13 Macklin Street, London WC2B 5NE

Reference	Use Class	Sunlight to Windows							
		Total Sunlight Hours				Winter Sunlight Hours			
		Before	After	Loss	Ratio	Before	After	Loss	Ratio
Window 249	Living Room	3%	3%	0%	1.0	0%	0%	0%	1.0
Window 250	Living Room	3%	3%	0%	1.0	0%	0%	0%	1.0
Window 251	Living Room	3%	3%	0%	1.0	0%	0%	0%	1.0

**Appendix 2 - Overshadowing to Gardens and Open Spaces**  
**Lupus House, 11 to 13 Macklin Street, London WC2B 5NE**

Reference	Total Area	Area receiving at least two hours of sunlight on 21st March						
		Before		After		Loss	Ratio	
<u>10 to 14 Macklin Street</u>								
Garden 1	11.31 m2	0.0 m2	0%	0.0 m2	0%	0.0 m2	0%	1.0
Garden 2	15.2 m2	0.0 m2	0%	0.0 m2	0%	0.0 m2	0%	1.0

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### **APPENDIX 3**

#### **OVERSHADOWING TO GARDENS AND OPEN SPACES**

# Overshadowing to Gardens and Open Spaces

Receives under two hours sunlight on 21st March before and after the development.



Receives under two hours sunlight on 21st March before the development; but will receive at least two hours sunlight on 21st March after the development (light improved).



Receives at least two hours sunlight on 21st March before the development; but will receive under two hours sunlight after the development (light loss).



Receives at least two hours sunlight on 21st March before and after the development.



**Notes:**

- Contours derived in accordance with BRE Guide : Site Layout Planning for Daylight and Sunlight

Project Name: Lupus House, 11 to 13 Macklin Street, Strand,  
London WC2B 5NE

Drawing Title: Overshadowing to Gardens and Open Spaces

Scale: Do not scale

Drawing No: 1 of 1

Rev: -

Rev: -

Rev: -

Rev: -



Burley House  
15 - 17 High Street  
Rayleigh  
Essex SS6 7EW

Tel. 0800 197 4836

enquiries@right-of-light.co.uk  
www.right-of-light.co.uk

