TOTTENHAM HALE
LONDON BOROUGH OF HARINGEY

INTERNAL DAYLIGHT & SUNLIGHT REPORT

DIRECTOR: LIAM DUNFORD
CLIENT: RG REAL ESTATE
DATE: AUGUST 2024
VERSION: VERSION 4
PROJECT: P2472

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Contents

Appendices

1 Introduction

1.1 Point 2 Surveyors Ltd. have been instructed to assess the internal daylight and sunlight amenity of the student accommodation proposed within Hadfield Cawkwell Davidson Architects proposed scheme for the redevelopment of Tottenham Hale (29 to 33 The Hale - "the Application Site" / "the Proposed Development"), located in the London Borough of Haringey.

1.2 The Proposed Development comprises a Non-Material Amendment ("NMA") application which primarily seeks to reconfigure the internal layouts to ensure the building complies with current regulations and the conditions of the original planning consent for the Application Site. The most notable change associated with this reconfiguration is relocating the Studio out of the Cluster Flat on the south wing of the building, which is seen as a betterment to the consented scheme. It is now proposed to have 2no. fully Accessible Studios along the western elevation and a 5-bed Cluster Flat at the bottom of the southern wing. Due to the Accessible Studios needing to be wider to comply with BS 8300, this has left less space for the cluster flat. The cluster kitchen has therefore been repositioned in order to achieve the desired kitchen size of min. 20m2 for the 5-bed cluster flat. The changes are considered non-material as they do not significantly alter the external appearance, scale, or overall use of the building. Rather, they address specific internal layout adjustments necessary for regulatory compliance and improved functionality, which can be effectively managed under an NMA application.

1.3 Through the planning process the local authority will wish to be reassured that the Proposed Development will benefit from acceptable levels of internal daylight and sunlight amenity. It is usual to assess this in relation to the BRE Guidelines[1]. This document is most widely accepted by planning authorities as the means by which to judge the acceptability of a Proposed Scheme in relation to daylight and sunlight amenity.

1.4 In an urban location, frequently site constraints and the proximity of neighbouring buildings mean that some windows or rooms will fall short of the guideline figures. However, the BRE Guidelines are not mandatory, and they explicitly state that the numerical target values should be interpreted flexibly. While local planning authorities will consider the acceptability of a Proposed Development in relation to BRE Guidance, consideration will be given to the context within which a scheme is located and internal daylight amenity will be one of several planning considerations. As is often the case, internal daylight needs to be balanced with several other factors, such as energy efficiency and overheating.

[1] Building Research Establishment '*Site Layout Planning for Daylight and Sunlight' – A Guide to Good Practice*, 3rd Edition, 2022 (BRE Guidelines)

1.5 The BRE Guidelines are primarily concerned with daylight and sunlight amenity to main habitable spaces such as bedrooms, living rooms and kitchens. It should be noted from the offset that there is no specific BRE guidance in relation to student accommodation.

2 Sources of Information

2.1 In the process of compiling this report, the following sources of information have been used:

Point 2 Surveyors
Site Photography

Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson Architects
Proposed Scheme Information (received 22.07.2024):

23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
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23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

3 Methodology

Daylight within Proposed Developments

3.1 The 2011 BRE guidelines were revised in June 2022. In the new 2022 revision of the BRE guidelines, a new Climate Based Daylight Modelling ("CBDM") methodology replaces the Average Daylight Factor ("ADF") methodology. The new methodology is more complex and has targets that are generally more difficult to achieve in an urban context.

Climate Based Daylight Modelling (CBDM)

3.2 The new CBDM methodology is based on the British Standard 'Daylight in Buildings' (BS EN17037). This contains advice and guidance on interior daylighting for all buildings across Europe but also has a UK National Annex which provides suggested targets for dwellings in the UK.

3.3 BS EN17037 supersedes BS 8206 Part 2 which was based on Average Daylight Factor ("ADF") and is no longer recommended.

3.4 The CBDM methodology is based on target illuminances from daylight. This is the Daylight Illuminance (DI) to be achieved over half the area of the room (measured on a reference plane at tabletop level) for at least half of the daylight hours in a typical year. The calculations are based on weather data files which cover different regions of the UK. The calculations are done for each hour of the day for every day of the year. There are 8760 hours in the year, of which 4380 are daylight hours, and therefore the targets should be achieved for 2190 hours in the year. The methodology uses a more accurate sky model which simulates the movement of the sun throughout the day and accounts for the weather conditions at the time. As a result, CBDM accounts for the presence of sunlight and therefore the orientation of the rooms/windows is accounted for. A south facing room is likely to have access to higher levels of natural light than a north facing room and as a result, a north facing room would typically need larger windows to comply.

3.5 The UK National Annex provides illuminance recommendations of:

- 100 Lux in bedrooms;
- 150 Lux in living rooms; and
- 200 Lux in kitchens.

3.6 These are median illuminances to be achieved over 50% of the assessment grid for at least half of the daylight hours.

3.7 Where a room has a shared use, the highest target should apply. However, it also says that Local Authorities could use discretion here and that a living room target of 150 Lux could be used for combined living/kitchen/dining rooms if the kitchens are not treated as habitable spaces, as it may avoid small separate kitchens in the design.

3.8 There is a further simplistic methodology based on daylight factors (not the same as the old ADF methodology), which does not use climate-based data but uses a simple fixed sky model. However, since this alternative simplistic methodology does not account for the effect of sunlight, or the orientation of the room, it has not been used in our assessment.

Sunlight within Proposed Developments

3.9 For new buildings, the BRE guidelines refer to BS EN 17037 which says that a space should receive a minimum of 1.5 hours of sunlight on a selected date between 1st February and 21st March with cloudless conditions. The BRE guidelines suggests 21st March be used. For dwellings, at least one habitable room, preferably a main living room, should achieve at least this minimum criterion and that at least one main window faces within 90° of south. Whilst BS EN 17037 applies to all orientations, the BRE guidelines say that if the room faces significantly north of due east or west, the criterion is unlikely to be met.

4 Parameters and Assumptions

4.1 To calculate the various measures of daylight and sunlight it is necessary to construct a three-dimensional computer model. The model is then analysed using proprietary software to calculate the various measures of daylight and sunlight.

4.2 The 3D model was created to reproduce the massing of the buildings both on and surrounding the Application Site at a level of detail appropriate to the calculations performed. All heights in the model are in mm Above Ordnance Datum ("AOD").

4.3 In relation to the CBDM assessment of the daylight and sunlight within the Proposed Development, the following assumptions and parameters have been used. The design team have specified light-coloured internal finishes and therefore, in accordance with paragraph C24 of Appendix C of the new BRE guidelines, the following Reflectance values have been used:

- Light pastel walls with a reflectance of 0.7;
- Light wood veneer floors/ cream carpets with a reflectance of 0.4;
- White ceilings with a reflectance of 0.8; and
- All external reflectance's have been assumed to 0.2 as per the guidelines.

4.4 As per paragraph C28 of the BRE Guidelines, the room assessment grid area excludes a 300mm band around the perimeter of the room. For the windows, the following assumptions have been made:

- A transmittance factor of 0.68;
- A window framing factor of 0.8; and
- A maintenance factor of 8% has been allowed to account for the effect of dirt on the glass in an urban environment.

5 Internal Daylight & Sunlight Amenity

5.1 Full and detailed analysis can be found within Appendix 1 (drawing reference P2472/CBDM/39-60). These show both the locations and configuration of the rooms which have been analysed, together with the distribution of daylight illuminance (Lux levels) that are achieved for 50% of daylight hours and the median daylight illuminance figure for each room.

5.2 A total of 459 rooms have been analysed, of these 415 are bedrooms and studios (219 bedrooms & 196 studios), 17 combined living/kitchen/dining rooms (LKDs) and 27 separate kitchens.

5.3 Student accommodation is not often considered for internal daylight and sunlight assessment. It should be noted however that, in contrast with residential accommodation (where living rooms are considered the primary rooms), bedrooms are usually considered to be more important than living rooms, dining rooms and kitchens. This is due to their use pattern where bedrooms are often used as study rooms. In addition, it is more important to have the front portion of the room well-lit (where desks tend to be located) as opposed to the rear of the room where beds are usually positioned.

5.4 For the combined LKDs proposed, the kitchens tend to be located to the rear of the space where less daylight will penetrate, as a result, supplementary electrical lighting will more often than not be utilised whenever the kitchen is in use. In accordance with the BRE Guidance (para 2.1.15) non-daylit internal kitchens should be avoided wherever possible, especially if the kitchen is also used as a dining area too. Noting the above it is appropriate to establish that where kitchens form part of a broader room use, a 150 lux target is most appropriate.

Internal Daylight Amenity

5.5 The consented layouts serve as the baseline condition against which we are assessing the daylight changes in the proposed reconfiguration. When compared to the previous daylight assessment conducted for the approved scheme, dated March 2023, despite some changes due to the reallocation of spaces, the overall daylight provision remains consistent and within adequate levels for student accommodation. The proposed changes do not represent a significant departure from the original planning permission; hence, they qualify as non-material modifications.

5.6 The reconfiguration has resulted in some kitchens being located in areas with limited natural light. However, these kitchens are primarily functional spaces rather than social hubs. Given that these kitchens serve cluster flats, it is more realistic to expect that students will spend the majority of their time in their well-daylit bedrooms and the wider communal areas, which are designed to meet or exceed the recommended daylight levels. Additionally, all students will have access to a well-daylit communal lounge on the seventh floor and a roof terrace, ensuring ample daylight and communal space. These internal modifications do not alter the building's external appearance or footprint, supporting their classification as non-material amendments.

5.7 The CBDM assessment demonstrates that 90% of all rooms tested will meet or exceed the BRE recommended light levels. This is an excellent compliance rate meaning that future occupants will benefit from very good levels of daylight to the vast majority of proposed rooms. Specifically, 199 out of 219 bedrooms pass, all 196 proposed studios pass and all 17 LKDs pass.

5.8 The 27 proposed separate kitchens serving 'cluster' units within the scheme do not meet the BRE recommendations. The kitchens are positioned in a constrained area of the scheme, however occupants of each of the bedrooms in these clusters will benefit from excellent daylight levels which exceed the recommendations in most cases.

5.9 The consented layouts include a studio room use where kitchens are relocated to in the proposed layouts analysed here. By relocating the kitchens, it prevents occupants of the consented studios experiencing low daylight levels in this location. This is considered an improvement to the quality of accommodation proposed by creating another very well daylit, dual aspect bedroom on each floor. The nature of these internal changes, focusing on enhancing the quality of accommodation while adhering to existing design principles, aligns with the criteria for non-material amendments.

5.10 The changes made to the layout, including the relocation of kitchens, are primarily driven by the need to comply with Disability Discrimination Act (DDA) requirements. Ensuring the building meets all necessary accessibility standards has been a priority, even if it has resulted in reduced daylight provision in a few rooms. The overall design carefully balances the need for functional space allocation and accessibility, which are considered vital for the quality of living in this development. These adjustments do not alter the building's external dimensions or overall use, thus supporting their categorisation as non-material amendments.

5.11 The results demonstrate that the proposal has been well designed to maximise daylight potential to the new dwellings. It is considered that the daylight amenity within these apartments is appropriate for temporary student uses and in most cases exceeds expectations for an urban environment.

Internal Sunlight Amenity

5.12 Results of the sunlight exposure test demonstrate that 28.6% of units will comply with the BRE recommendations. This is typical where rooms are oriented north, as is the case for the majority of proposed rooms within the scheme. It is natural that rooms will struggle to meet the guidelines where they do not have a southerly aspect, particularly in urban settings where surrounding buildings are taller and closer together. These results are typical of a development of this nature.

6 Conclusion

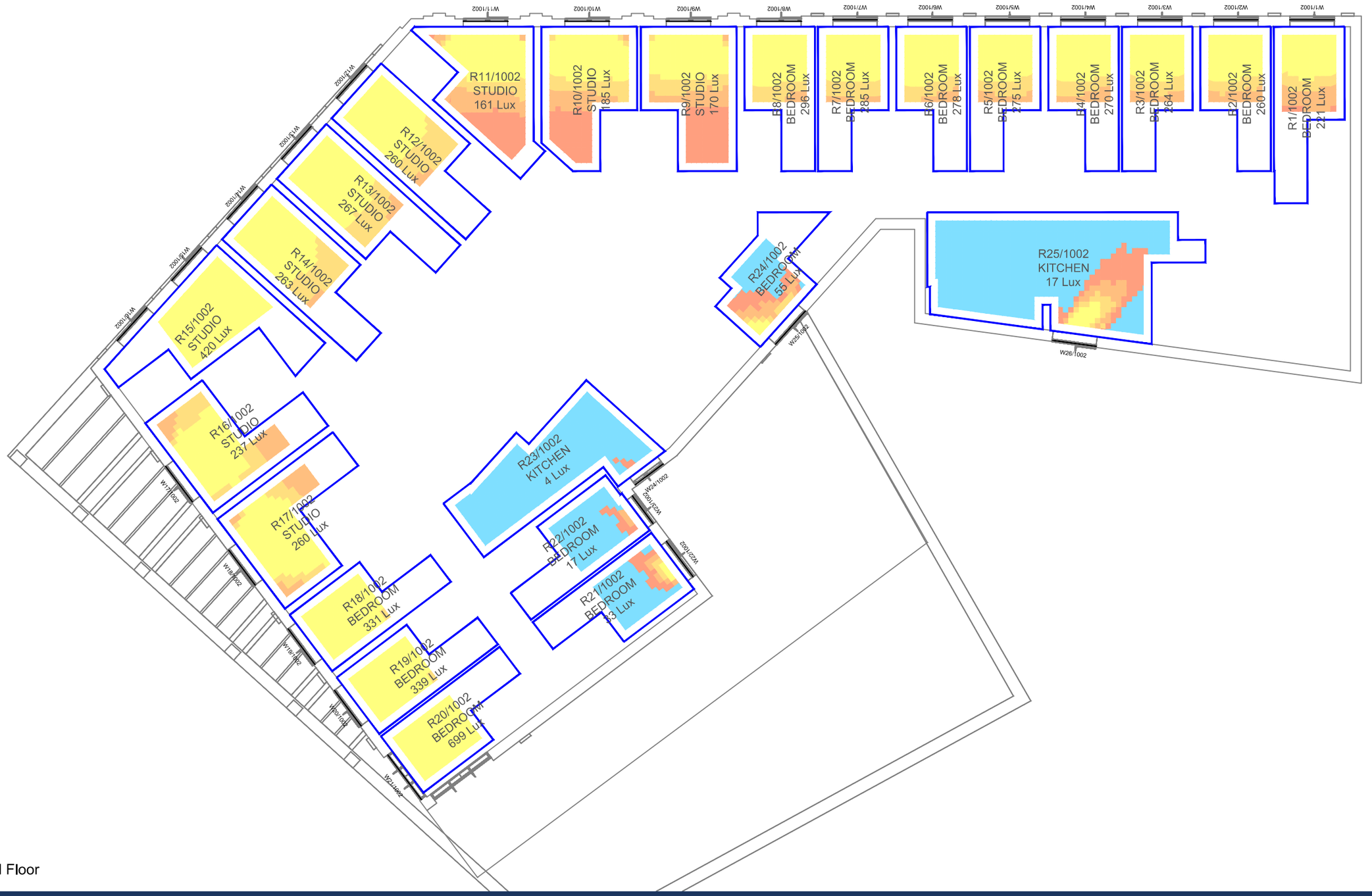
6.1 Section 5 above, and the appended drawings to this report demonstrate that the Proposed Development provides high levels of compliance with BRE Guidance in terms of internal daylight amenity, with 90% of the rooms achieving or exceeding their respective target illuminance value appropriate for the principal usage over at least 50% of the room area.

6.2 In relation to internal sunlight amenity, 28.6% of rooms comply with BRE Guidance.

6.3 The Proposed Development has been designed well to allow for good levels of daylight and sunlight that will distribute throughout most rooms efficiently. The results are considered typical for a development of this nature and scale in an urban setting and should be considered acceptable.

6.4 Point 2 Surveyors Ltd. fully support the Proposed Development in terms of internal daylight and sunlight amenity.

Appendix 1:
Internal Daylight Results



Second Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
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23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
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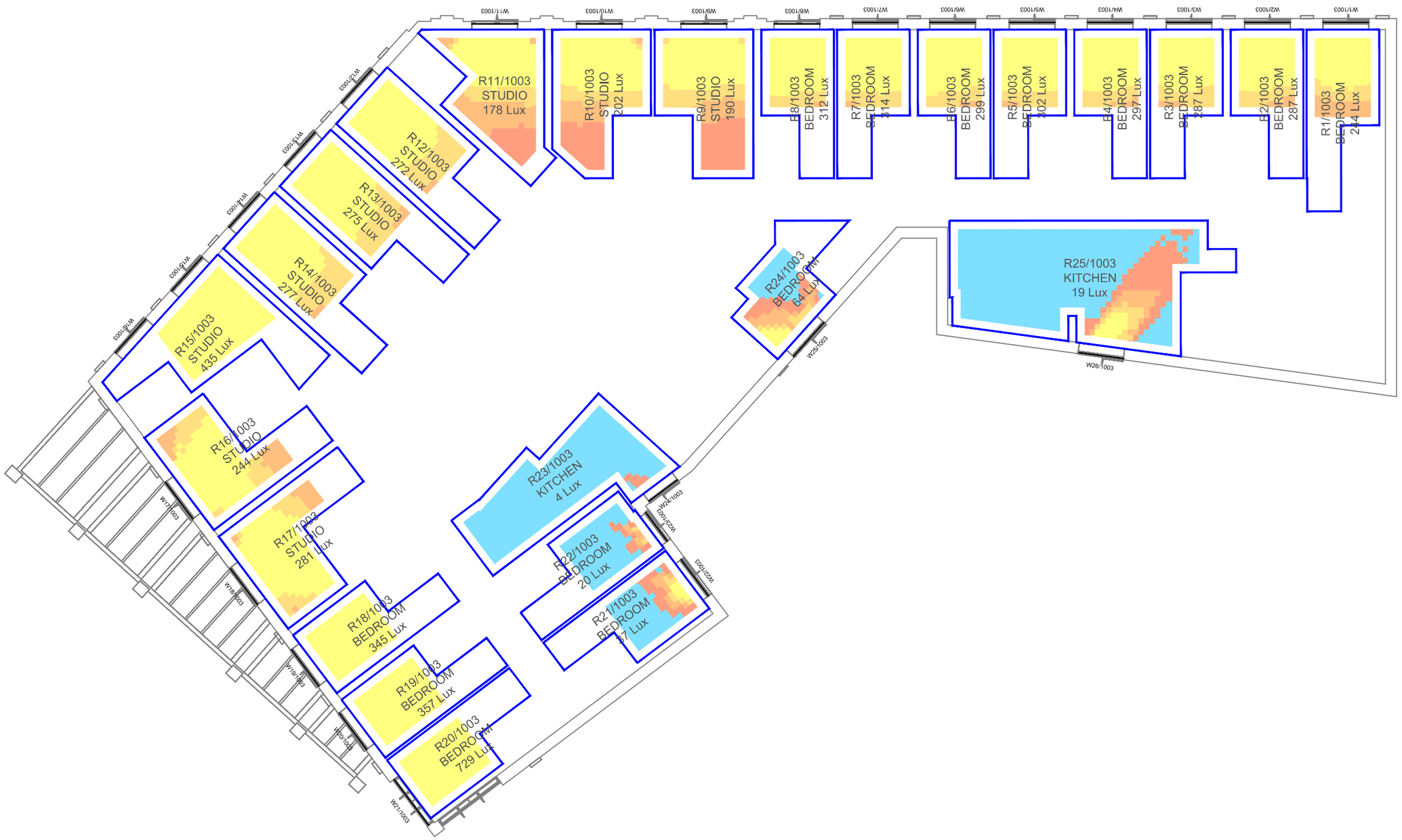

Third Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
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Overhang as glass

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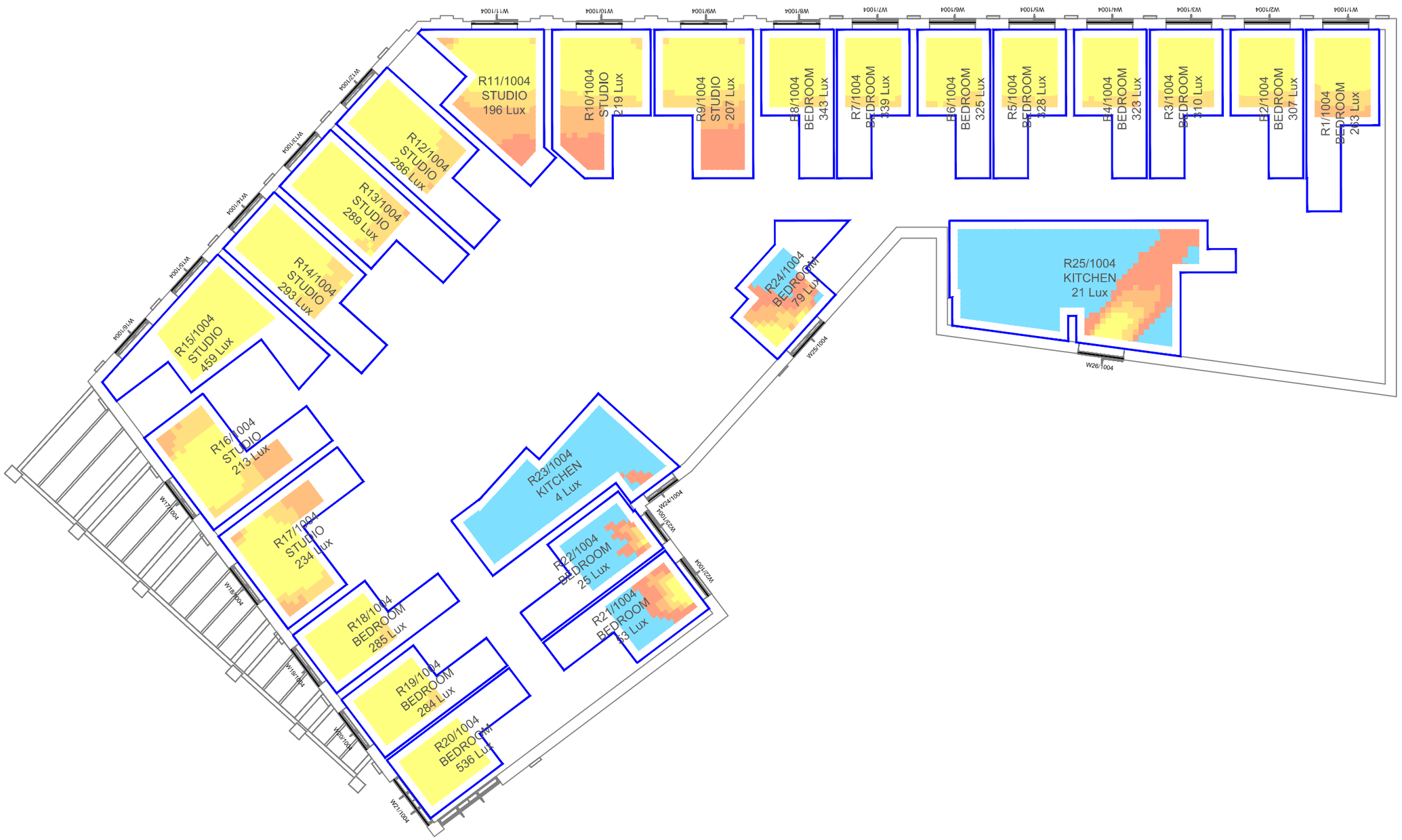

Fourth Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

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23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
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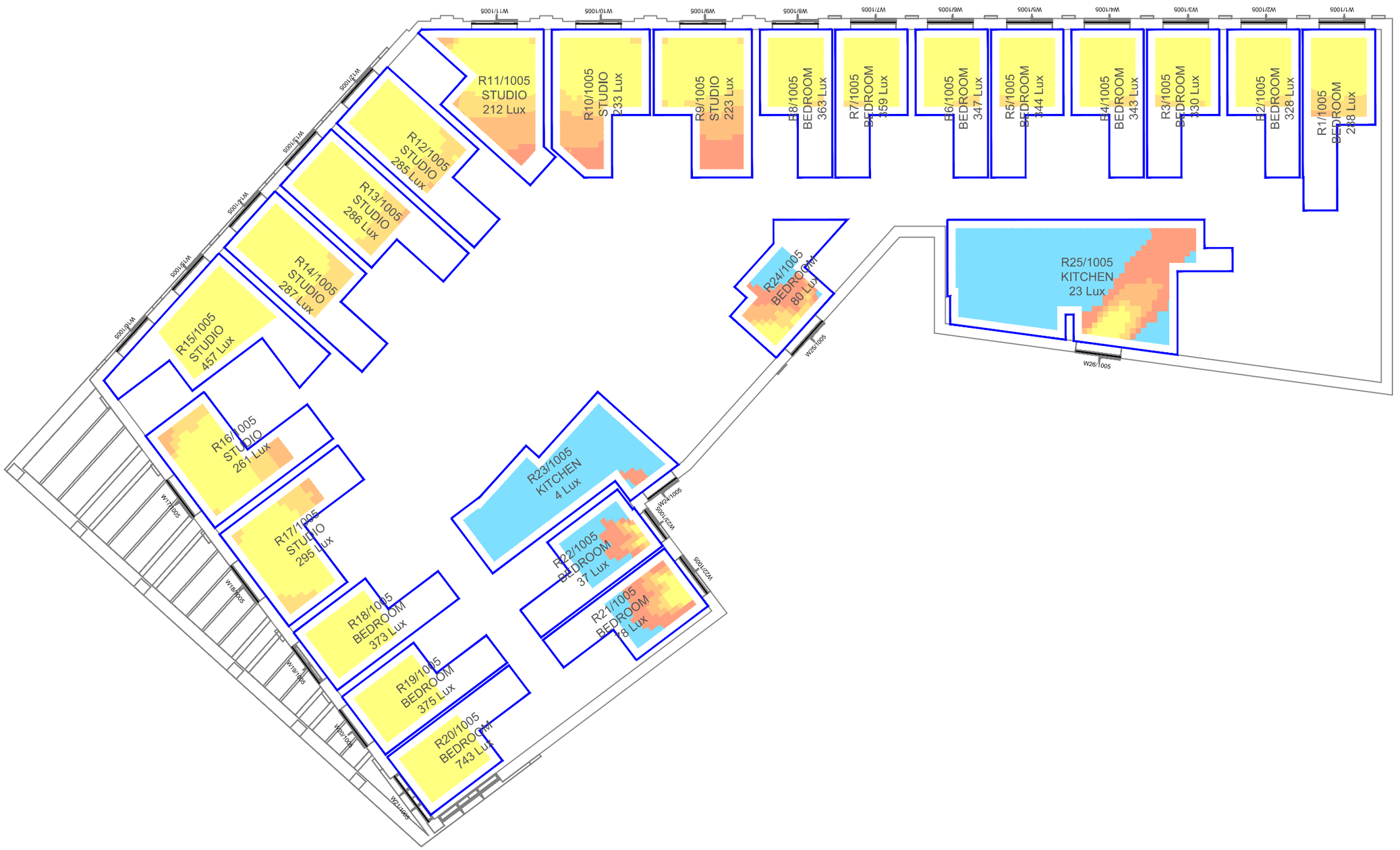

Fifth Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

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Key: Daylight Illuminance
(achieved for 50% of daylight hours)

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- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

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Proposed Scheme 22/07/24
Overhang as glass

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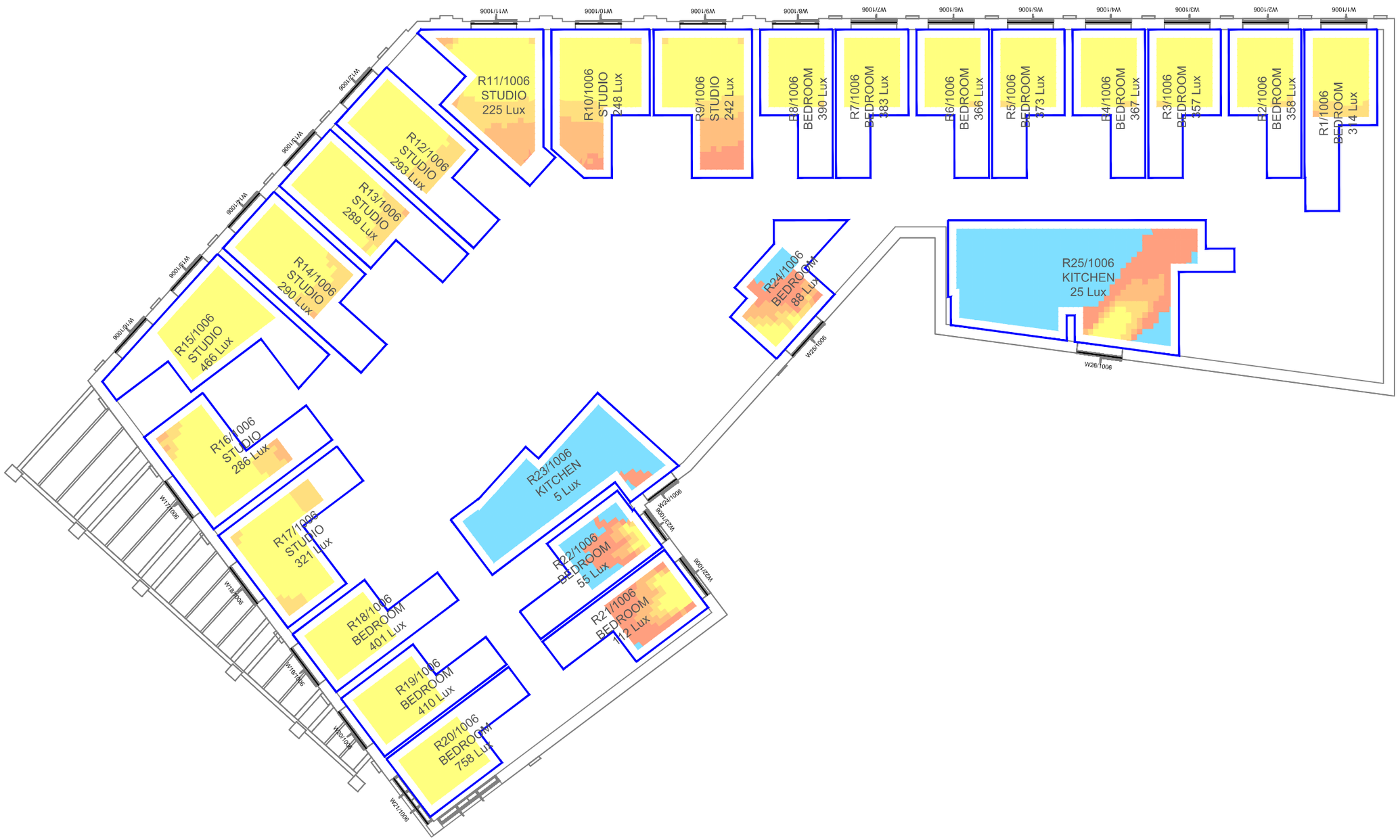

Sixth Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

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(achieved for 50% of daylight hours)

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- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
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Seventh Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

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Median Illuminance (Lux) Levels shown for each room.

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Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
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Proposed Scheme 22/07/24
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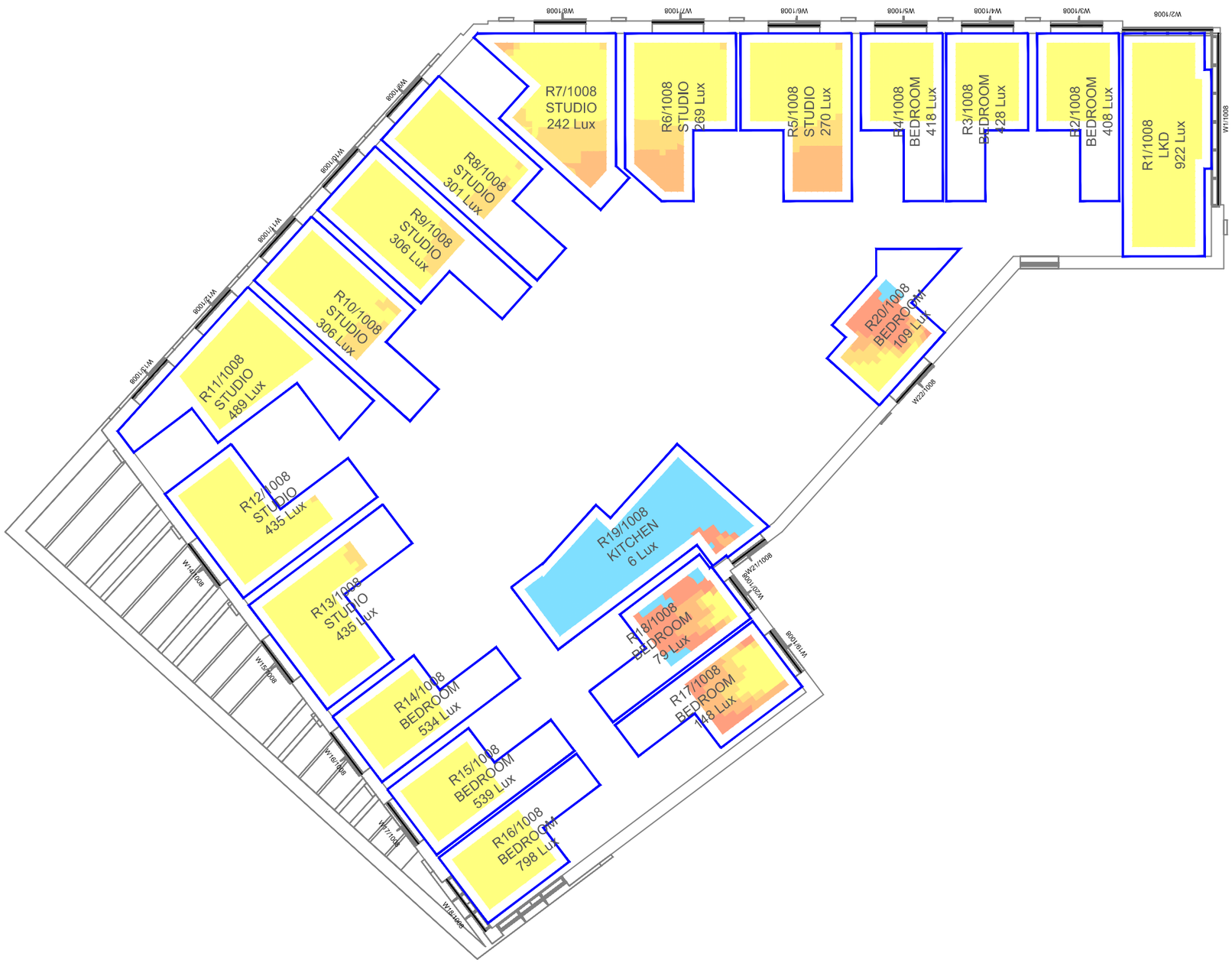

Eighth Floor

Sources: Zmapping
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Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
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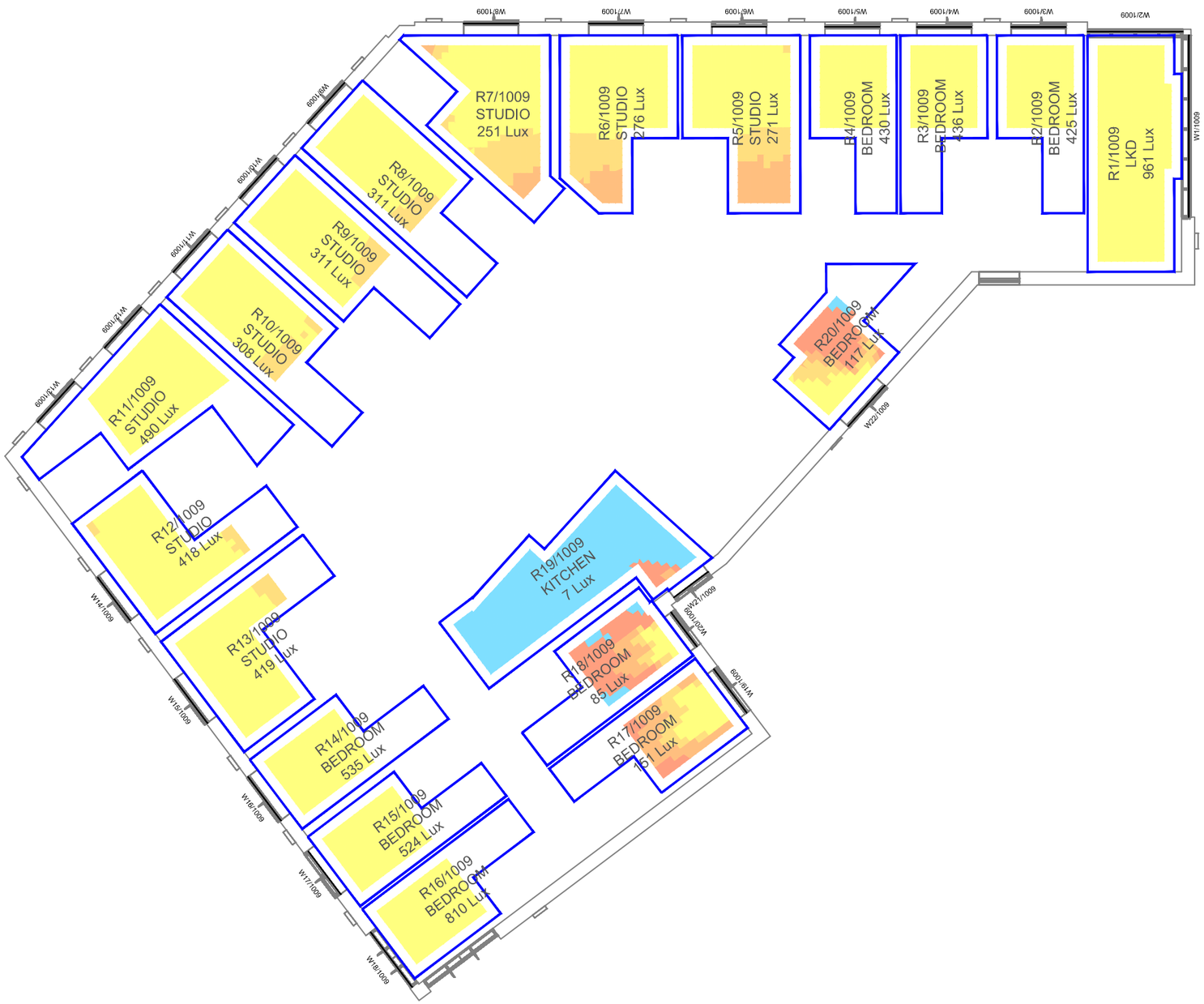

Ninth Floor

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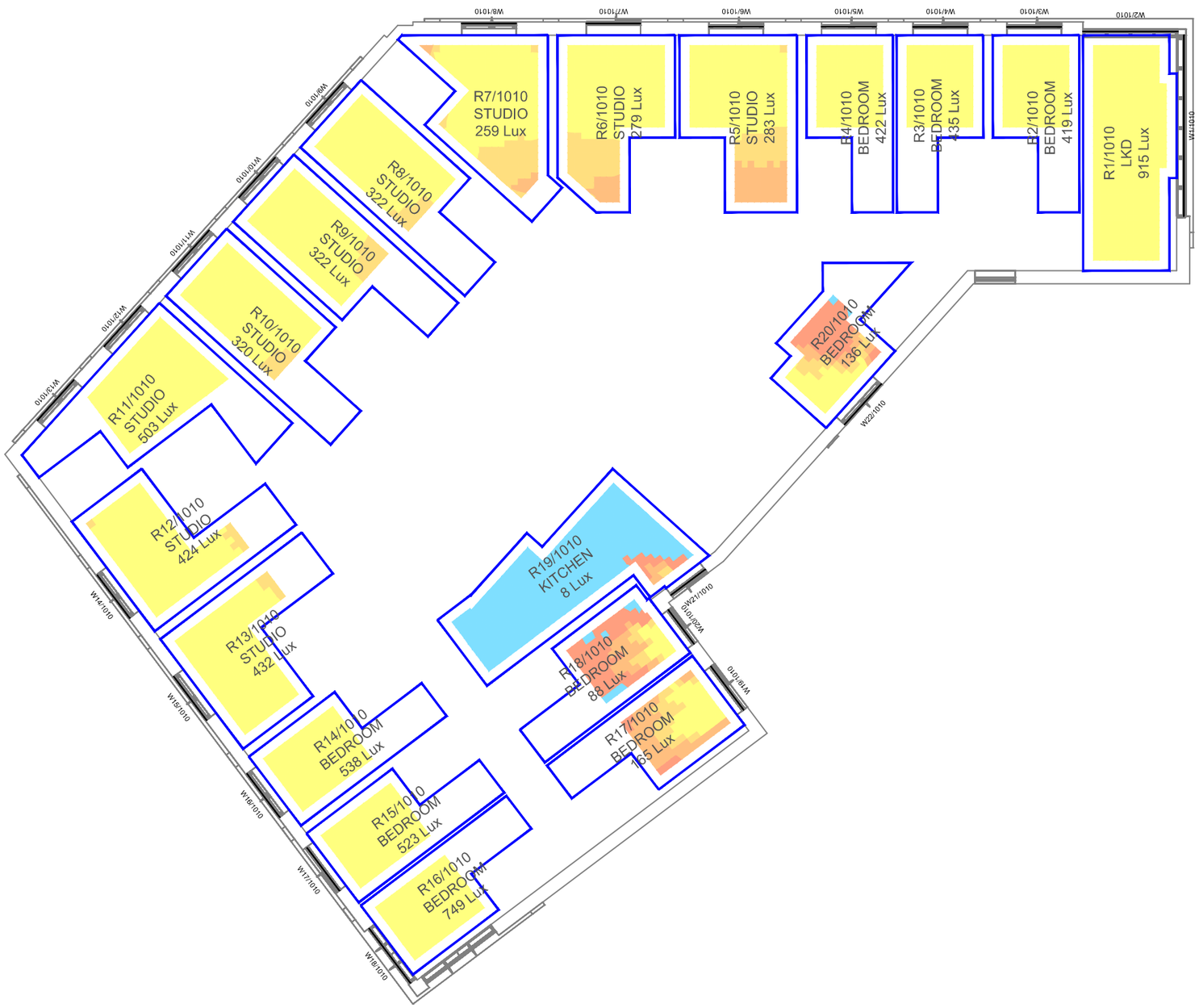

Tenth Floor

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Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

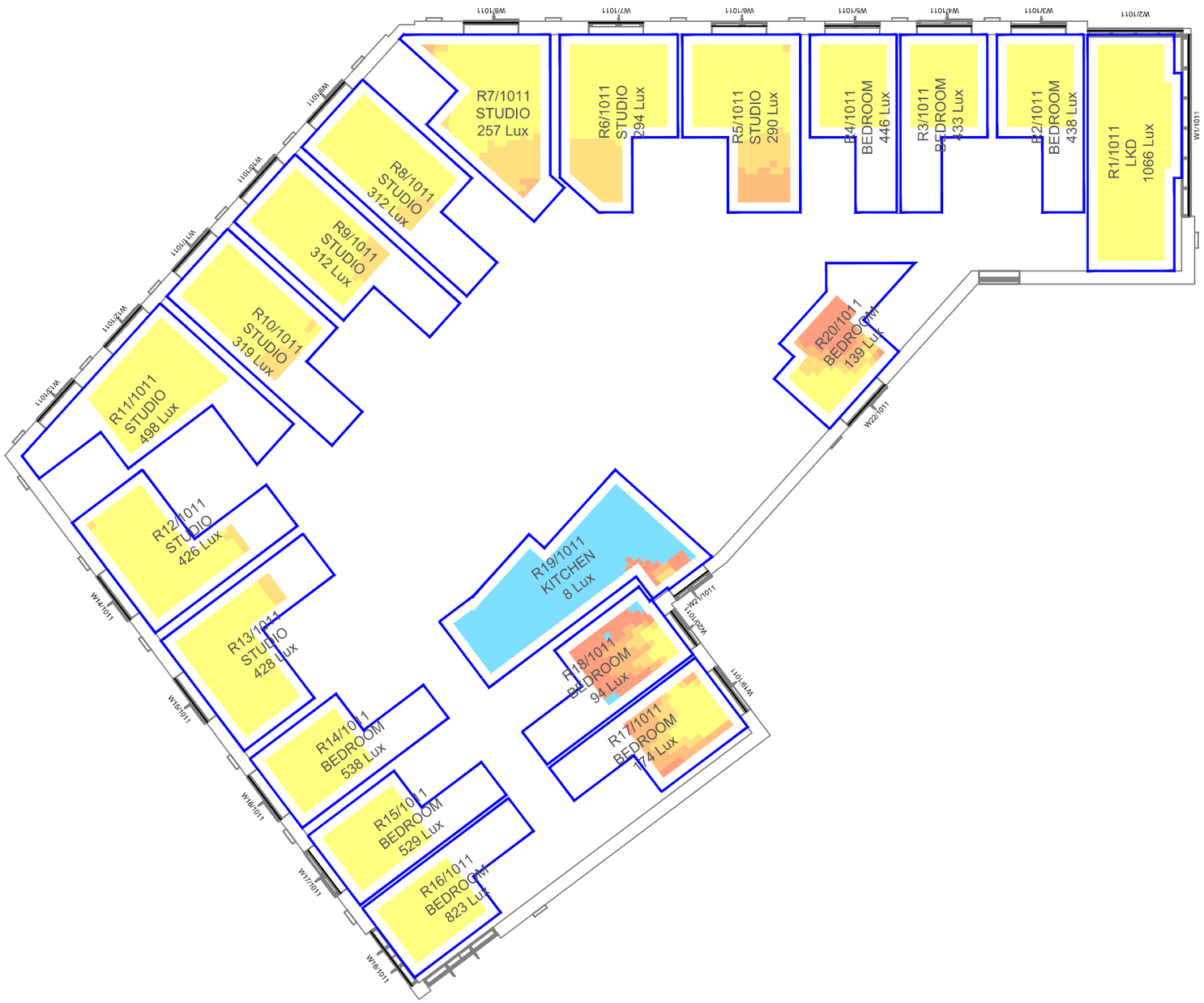
Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/47	42



Eleventh Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

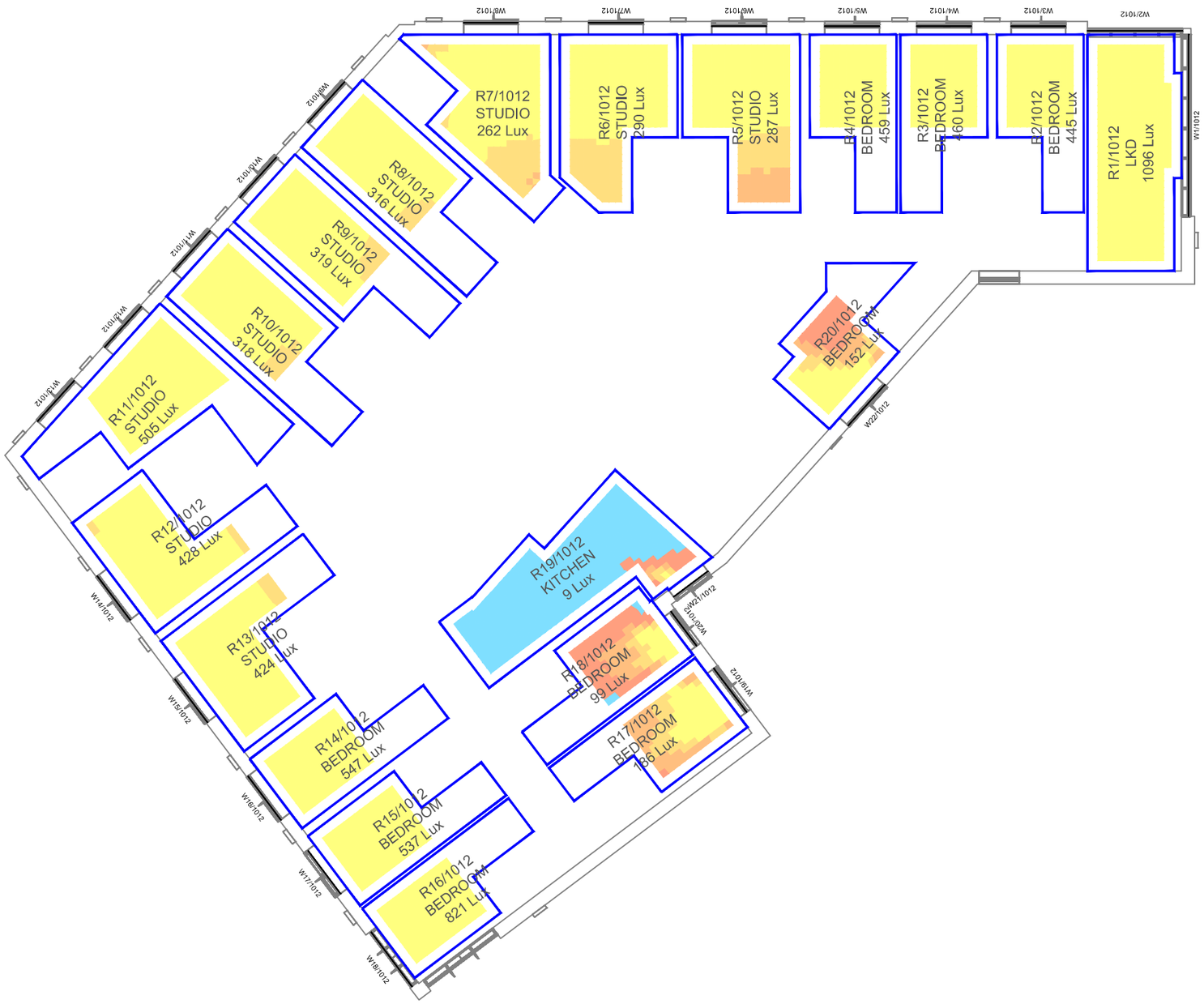
Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/48	42



Twelfth Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

<50 Lux
>50 Lux
>100 Lux
>150 Lux
>200 Lux

Median Illuminance (Lux) Levels shown for each room.

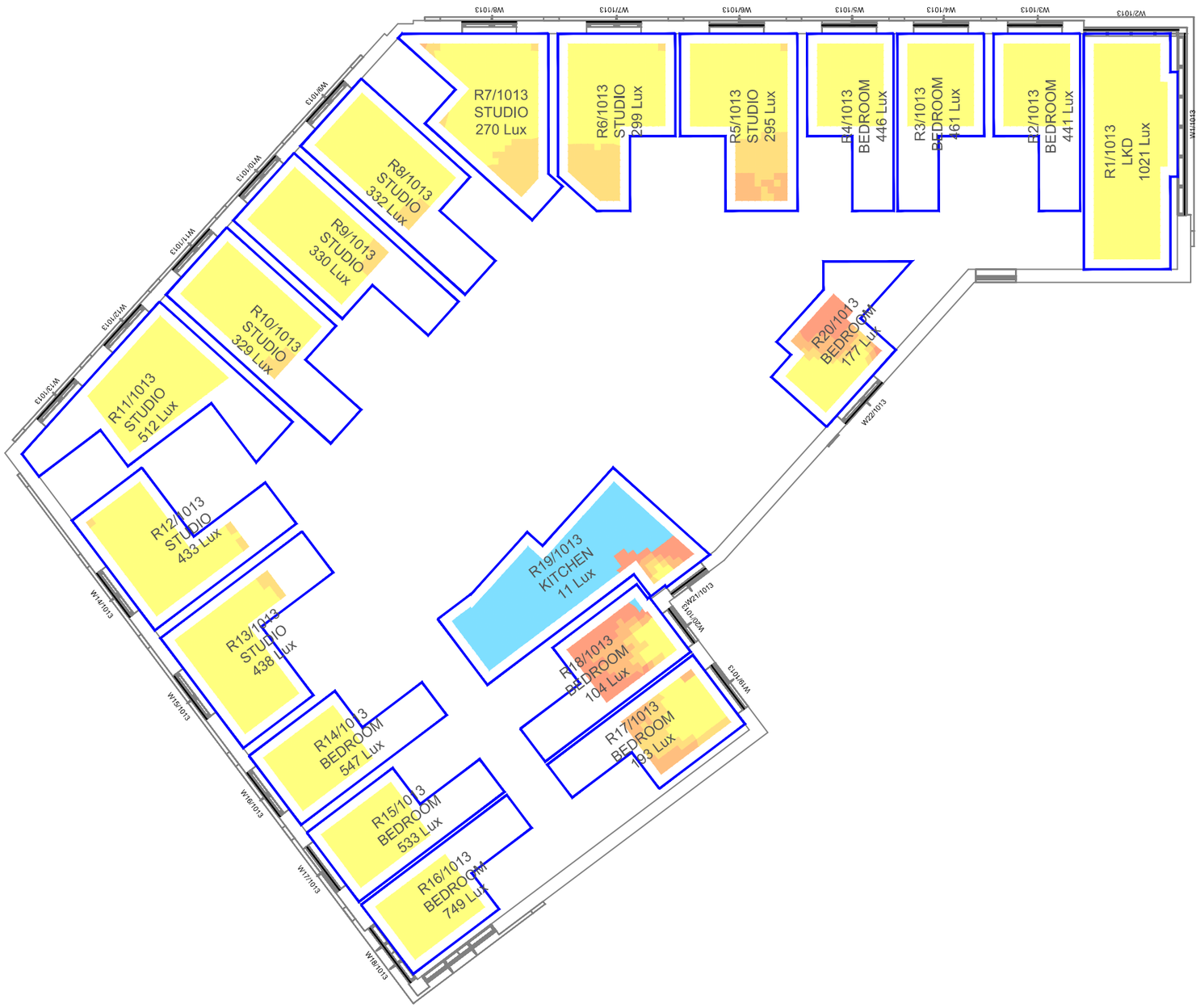
Recommended Targets:
Bedroom 100 Lux
Living Room 150 Lux
Kitchen 200 Lux
Studio 150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/49	42



Thirteenth Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

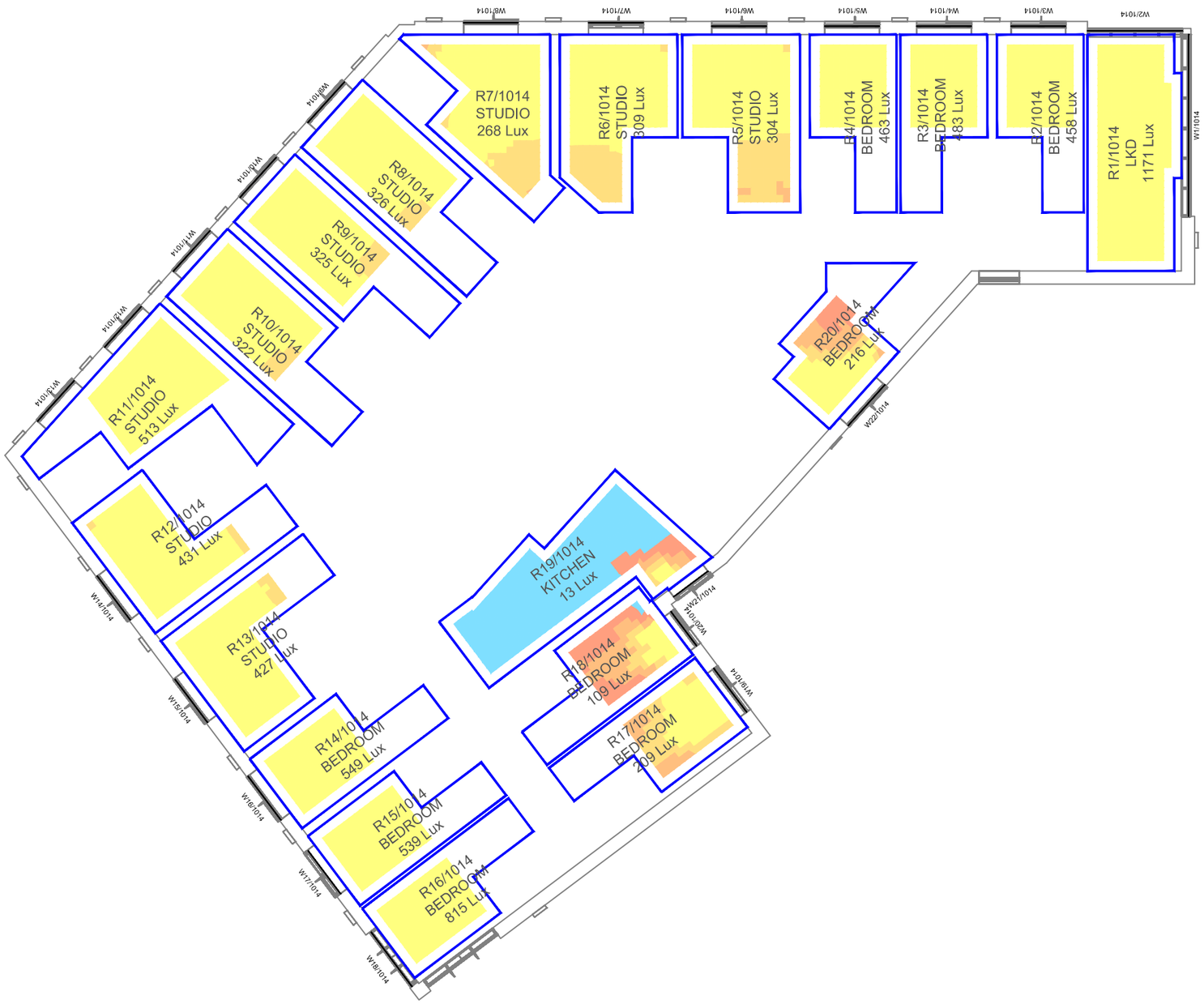
Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/50	42



Fourteenth Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

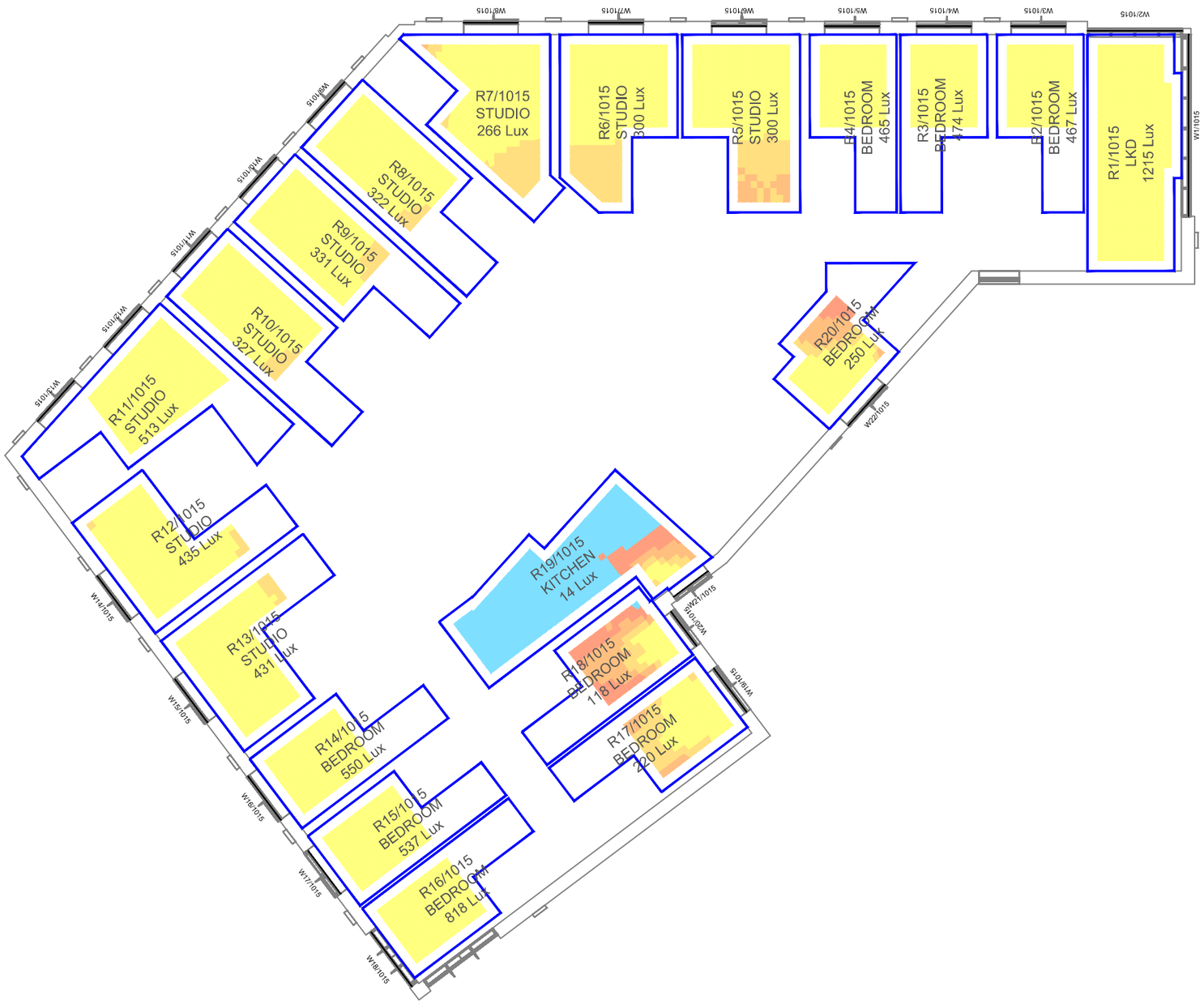
Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/51	42



Fifteenth Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

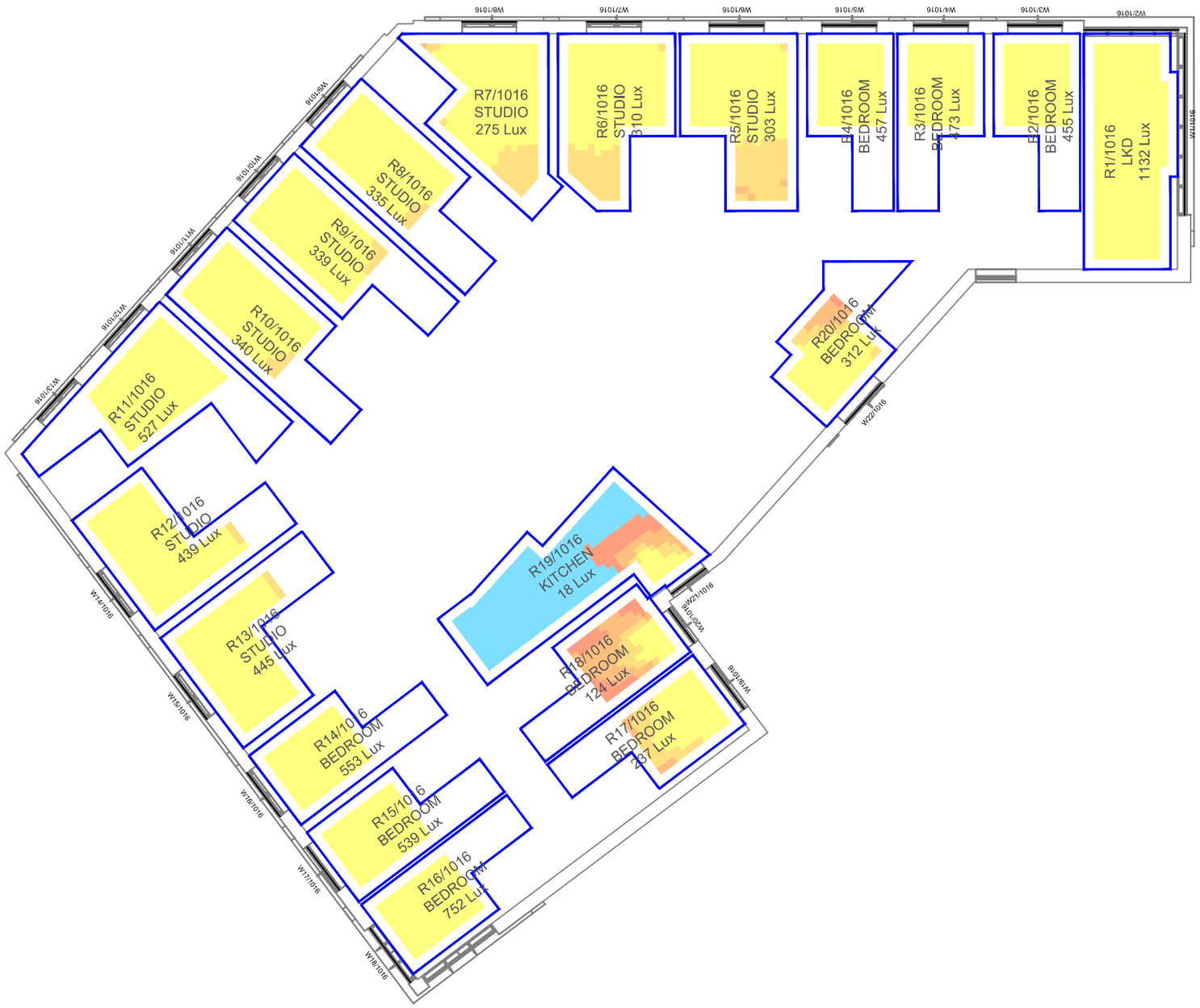
Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/52	42



Sixteenth Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

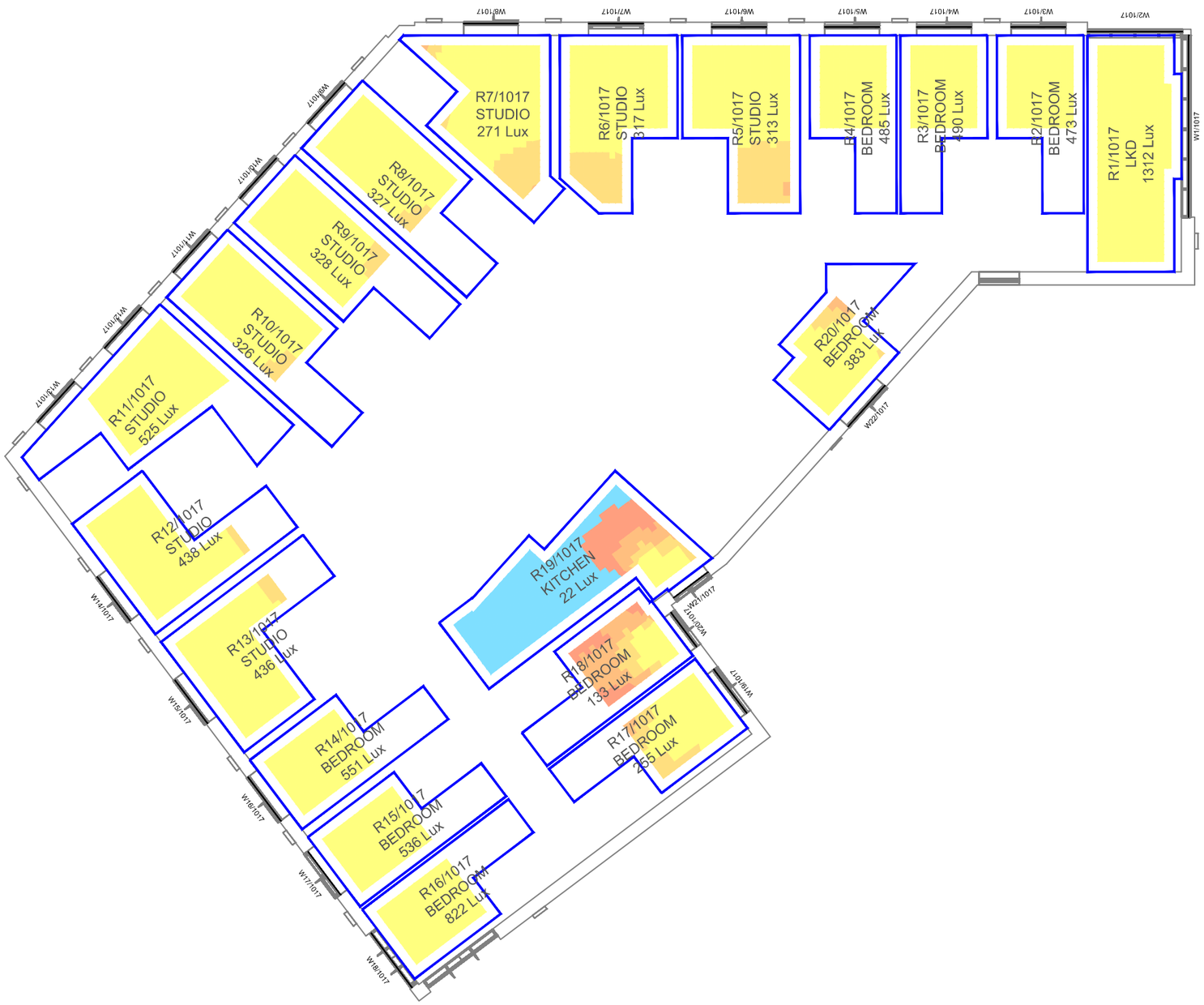
Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/53	42



Seventeenth Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

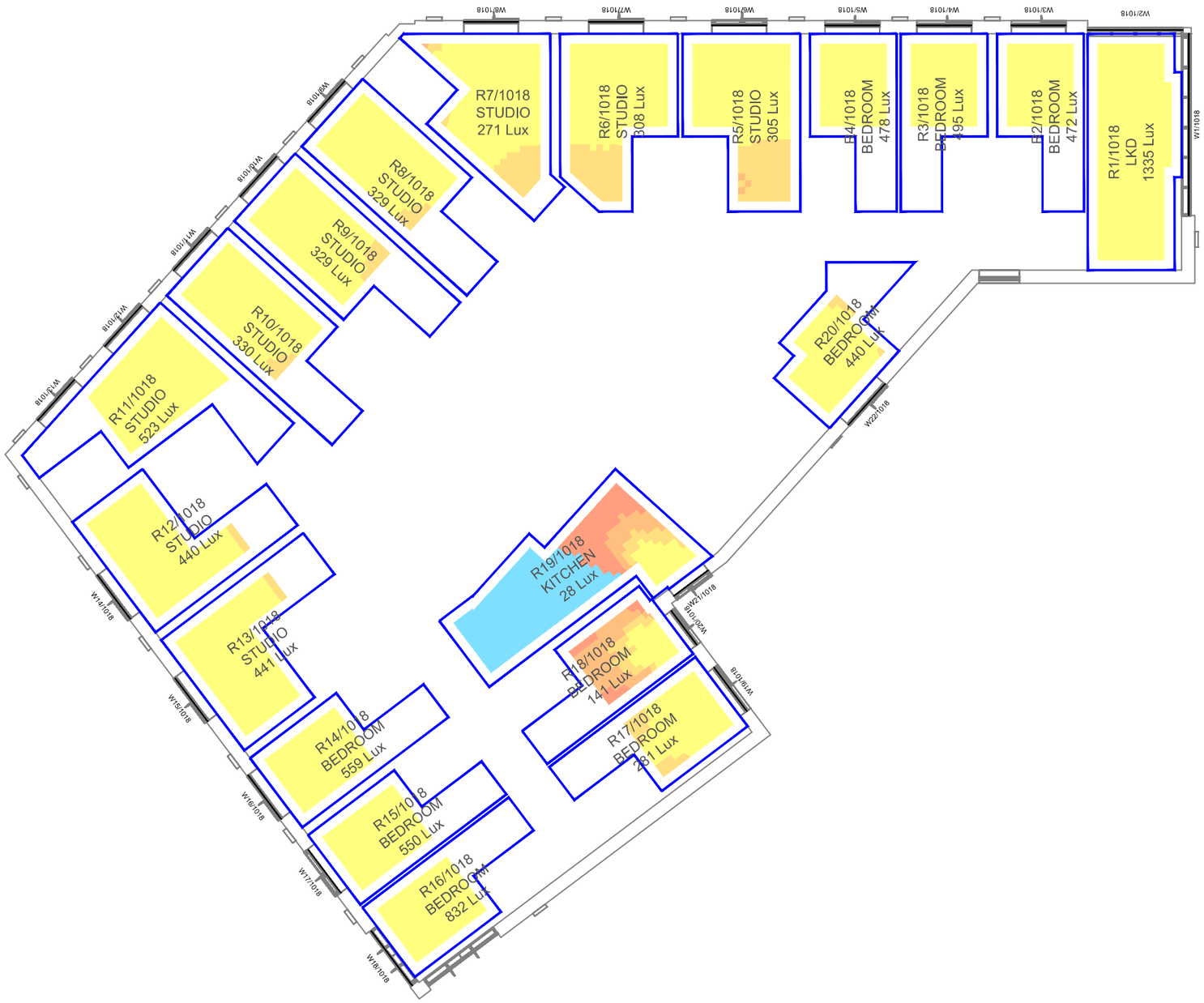
Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/54	42



Eighteenth Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

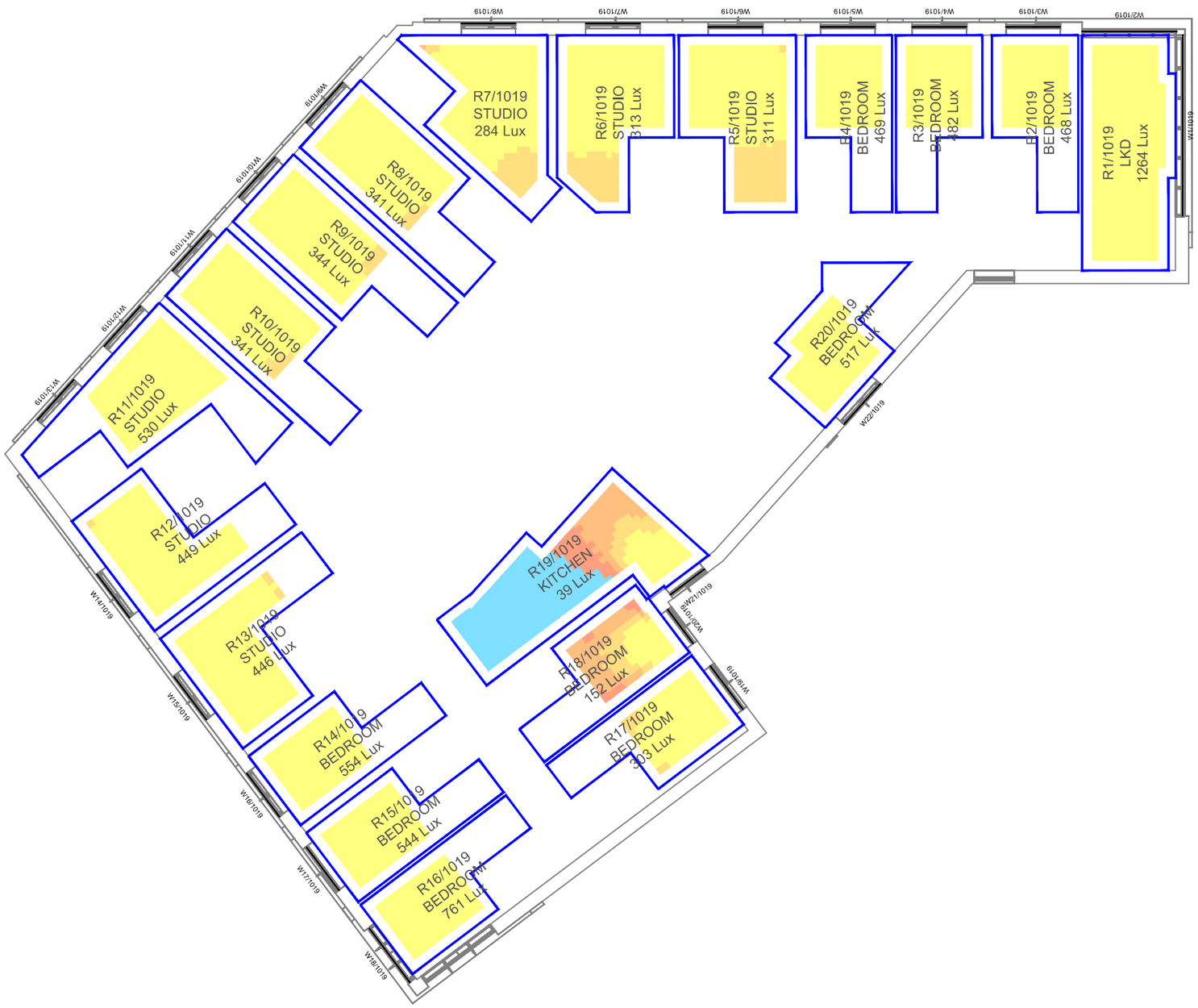
Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/55	42



Ninteenth Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

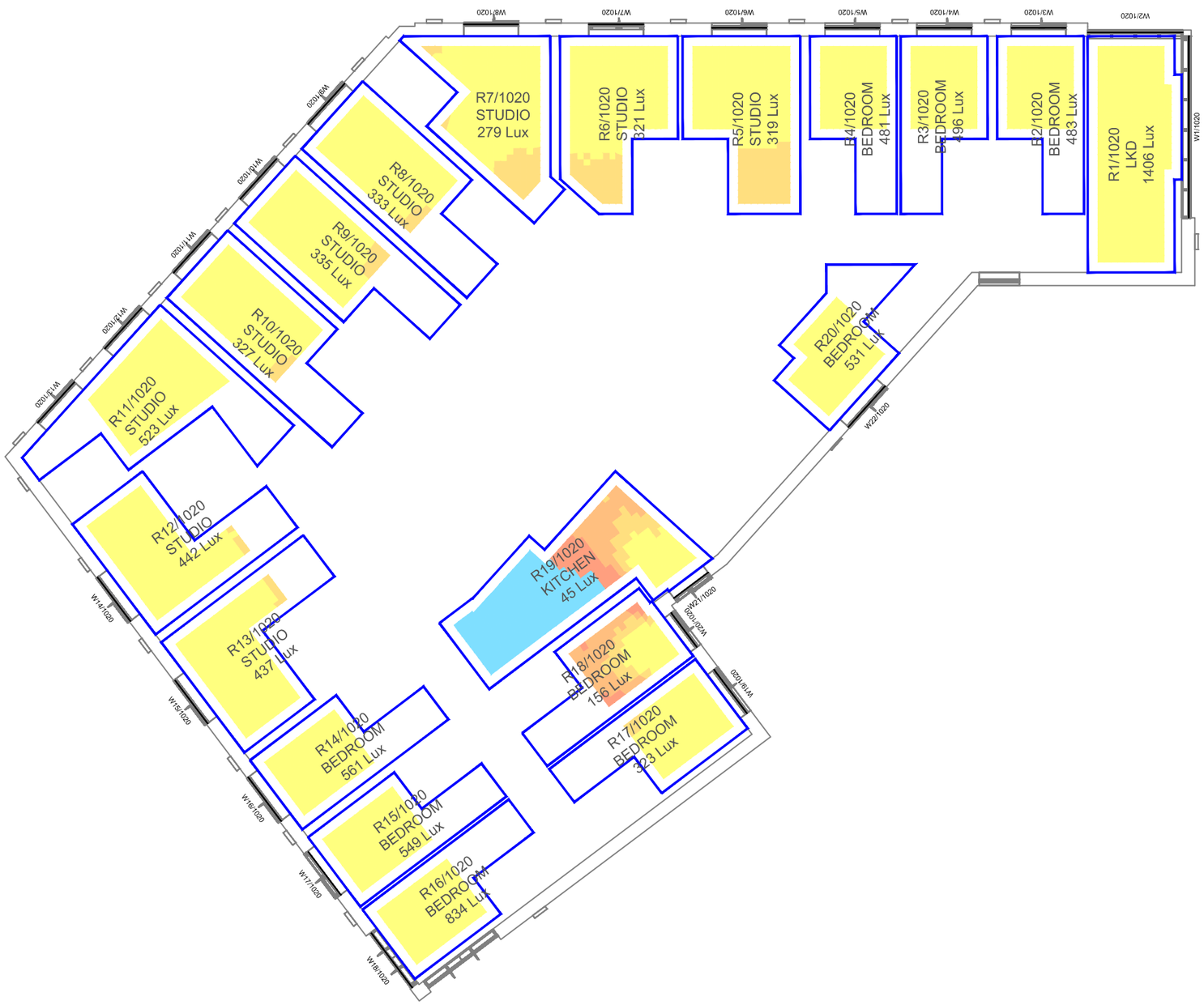
Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/56	42



Twentieth Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

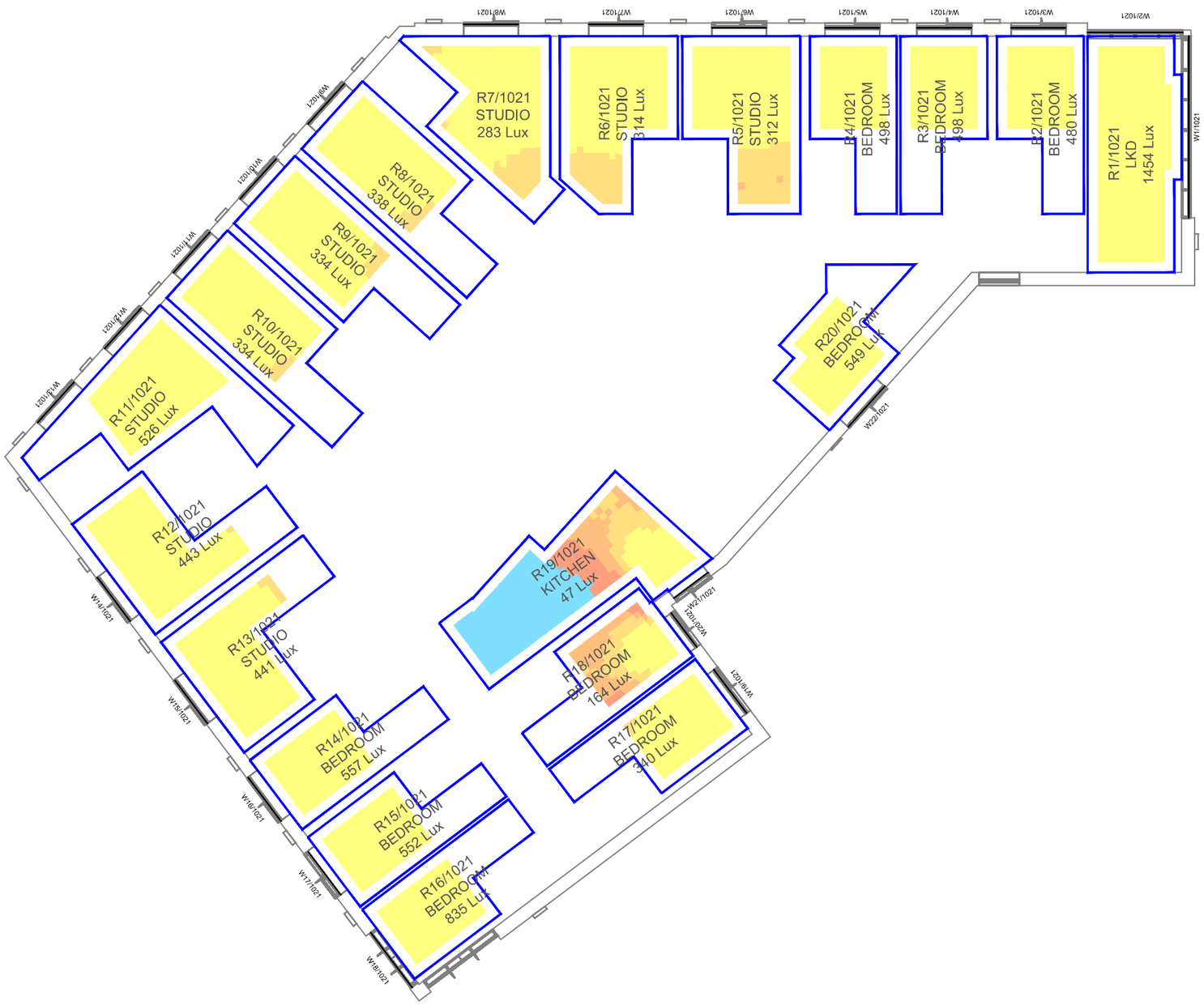
Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/57	42



Twenty first Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

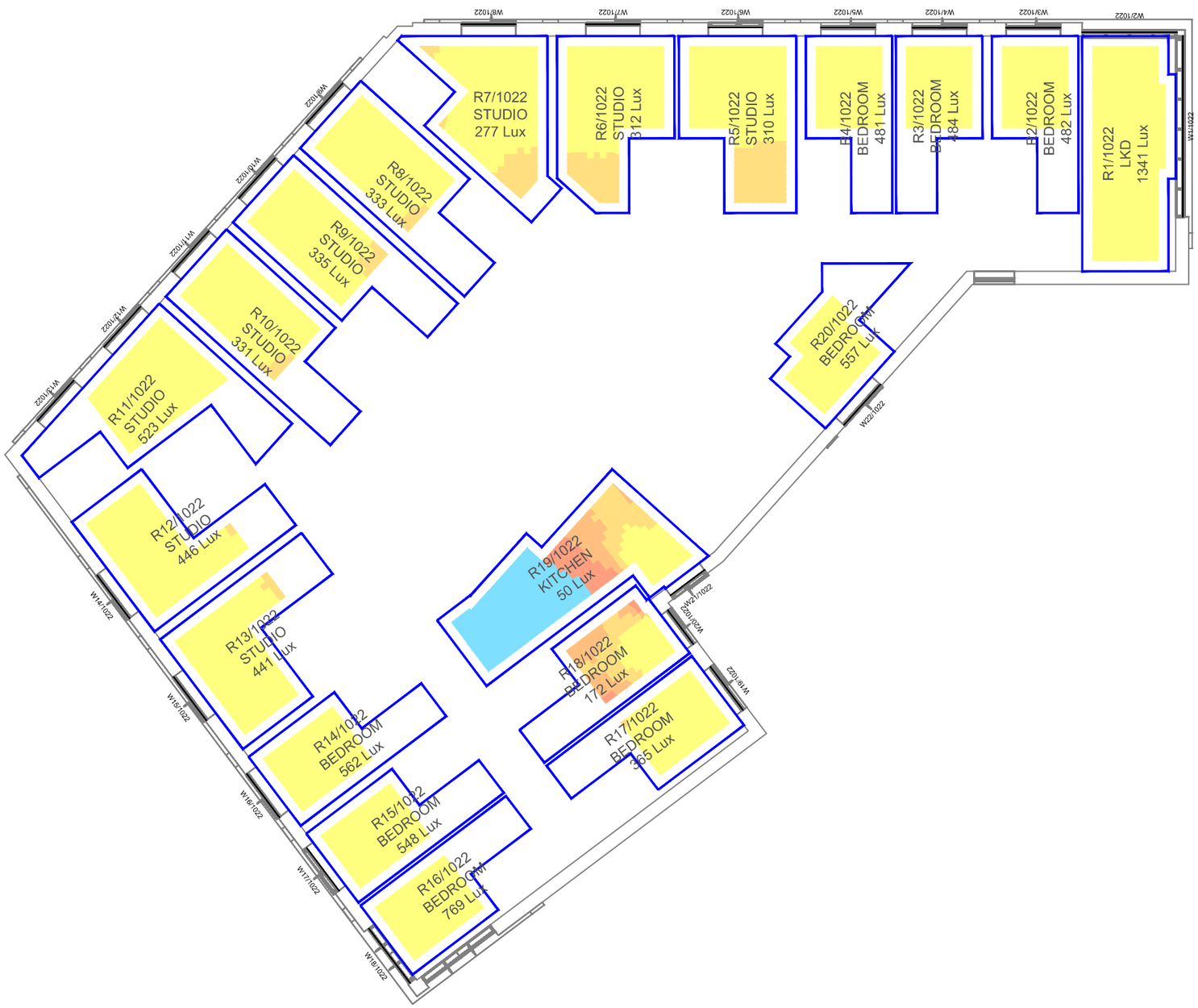
Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/58	42



Twenty second Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

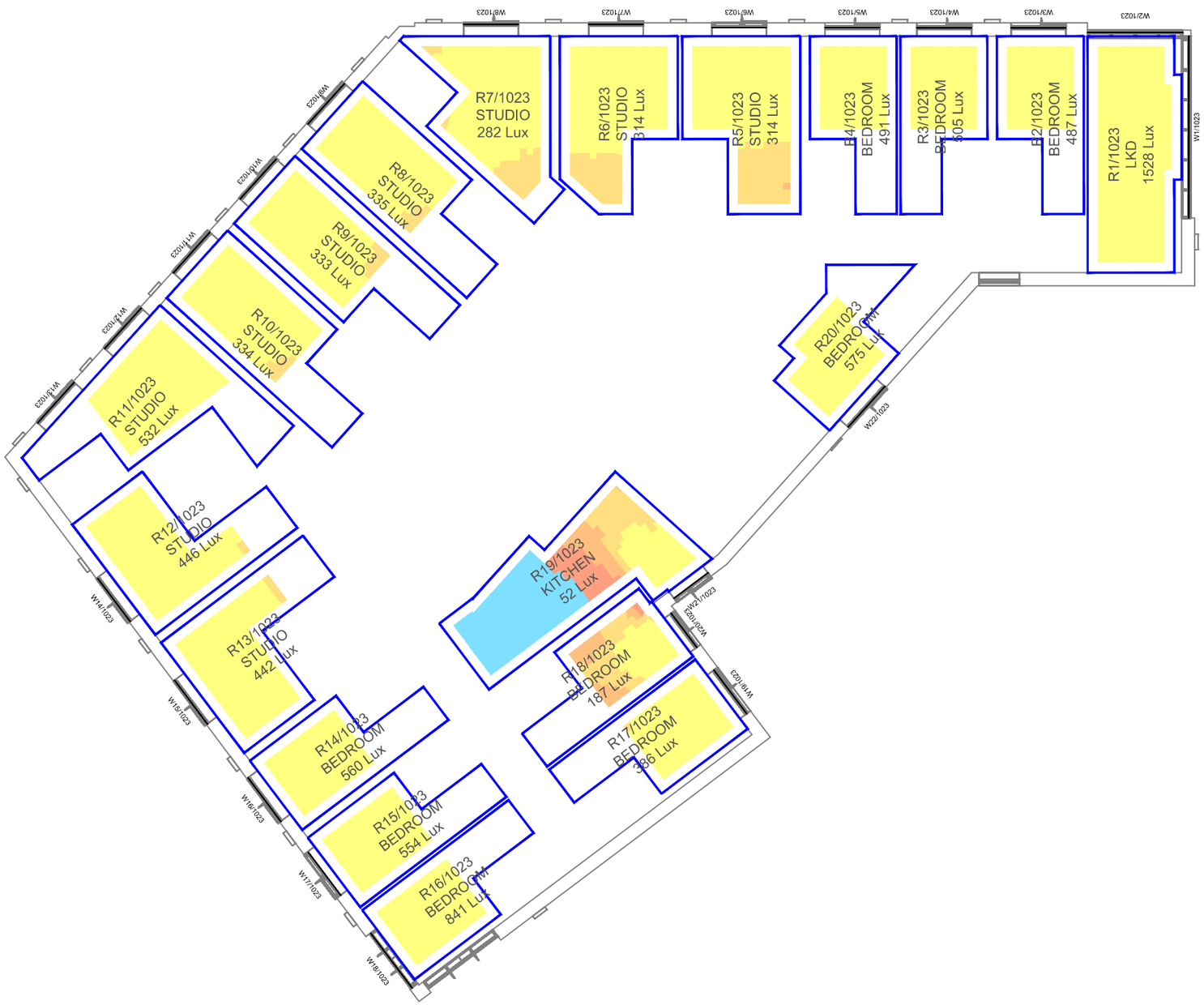
Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/59	42



Twenty third Floor

Sources: Zmapping
3D CAD Model of Site and Surroundings

Hadfield Cawkwell Davidson
Proposed Info (received 22/07/24)
23192-HCD-AZ-00-M3-00002_P04-Revit Model.rvt
23192-HCD-AZ-00-DR-PL0400_P01-Ground Floor Plan.dwg
23192-HCD-AZ-01-DR-PL0401_P01-First Floor Plan.dwg
23192-HCD-AZ-02-DR-PL0402_P01-Second Floor Plan.dwg
23192-HCD-AZ-07-DR-PL0407_P01-Seventh Floor Plan.dwg
23192-HCD-AZ-08-DR-PL0408_P01-Eighth Floor Plan.dwg
23192-HCD-AZ-24-DR-PL0424_P01-Twenty Fourth Floor Plan.dwg

Key: Daylight Illuminance
(achieved for 50% of daylight hours)

- <50 Lux
- >50 Lux
- >100 Lux
- >150 Lux
- >200 Lux

Median Illuminance (Lux) Levels shown for each room.

Recommended Targets:

Bedroom	100 Lux
Living Room	150 Lux
Kitchen	200 Lux
Studio	150 Lux

Project: Tottenham Hale
London

Title: Climate Based Daylight Modelling (CBDM) Assessment
Median Illuminance (Lux) Levels

Proposed Scheme 22/07/24
Overhang as glass

Scheme Confirmed:	Date:	Drawn By:	Scale:	Date:	Dwg No:	Rel:
-	-	DK	1:150 @ A3	Aug 24	P2472/CBDM/60	42

Appendix 2:
Internal Sunlight Results

TOTTENHAM HALE, LONDON
INTERNAL ANALYSIS SCHEME RECEIVED 22/07/24

Unit	Room	Room Use	Date	Sunlight Exposure (Hours)	Room Complies?
Proposed Scheme					
F10/1002	R10/1002	STUDIO	21-Mar	0.0	✗
F11/1002	R11/1002	STUDIO	21-Mar	0.0	✗
F12/1002	R12/1002	STUDIO	21-Mar	0.0	✗
F13/1002	R13/1002	STUDIO	21-Mar	0.0	✗
F14/1002	R14/1002	STUDIO	21-Mar	0.0	✗
F15/1002	R15/1002	STUDIO	21-Mar	0.0	✗
F16/1002	R16/1002	STUDIO	28-Feb	2.5	✓
F17/1002	R17/1002	STUDIO	20-Mar	4.0	✓
F9/1002	R9/1002	STUDIO	21-Mar	0.0	✗
F10/1003	R10/1003	STUDIO	21-Mar	0.0	✗
F11/1003	R11/1003	STUDIO	21-Mar	0.0	✗
F12/1003	R12/1003	STUDIO	21-Mar	0.0	✗
F13/1003	R13/1003	STUDIO	21-Mar	0.0	✗
F14/1003	R14/1003	STUDIO	21-Mar	0.0	✗
F15/1003	R15/1003	STUDIO	21-Mar	0.0	✗
F16/1003	R16/1003	STUDIO	21-Mar	2.8	✓
F17/1003	R17/1003	STUDIO	20-Mar	4.2	✓
F9/1003	R9/1003	STUDIO	21-Mar	0.0	✗

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Unit	Room	Room Use	Date	Sunlight Exposure (Hours)	Room Complies?
F10/1004	R10/1004	STUDIO	21-Mar	0.0	✗
F11/1004	R11/1004	STUDIO	21-Mar	0.0	✗
F12/1004	R12/1004	STUDIO	21-Mar	0.0	✗
F13/1004	R13/1004	STUDIO	21-Mar	0.0	✗
F14/1004	R14/1004	STUDIO	21-Mar	0.0	✗
F15/1004	R15/1004	STUDIO	21-Mar	0.0	✗
F16/1004	R16/1004	STUDIO	20-Mar	2.3	✓
F17/1004	R17/1004	STUDIO	20-Mar	3.4	✓
F9/1004	R9/1004	STUDIO	21-Mar	0.0	✗
F10/1005	R10/1005	STUDIO	21-Mar	0.0	✗
F11/1005	R11/1005	STUDIO	21-Mar	0.0	✗
F12/1005	R12/1005	STUDIO	21-Mar	0.0	✗
F13/1005	R13/1005	STUDIO	21-Mar	0.0	✗
F14/1005	R14/1005	STUDIO	21-Mar	0.0	✗
F15/1005	R15/1005	STUDIO	21-Mar	0.0	✗
F16/1005	R16/1005	STUDIO	21-Mar	3.0	✓
F17/1005	R17/1005	STUDIO	20-Mar	4.4	✓
F9/1005	R9/1005	STUDIO	21-Mar	0.0	✗
F10/1006	R10/1006	STUDIO	21-Mar	0.0	✗

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Unit	Room	Room Use	Date	Sunlight Exposure (Hours)	Room Complies?
F11/1006	R11/1006	STUDIO	21-Mar	0.0	✗
F12/1006	R12/1006	STUDIO	21-Mar	0.0	✗
F13/1006	R13/1006	STUDIO	21-Mar	0.0	✗
F14/1006	R14/1006	STUDIO	21-Mar	0.0	✗
F15/1006	R15/1006	STUDIO	21-Mar	0.0	✗
F16/1006	R16/1006	STUDIO	28-Feb	3.1	✓
F17/1006	R17/1006	STUDIO	21-Mar	3.8	✓
F9/1006	R9/1006	STUDIO	21-Mar	0.0	✗
F1/1007	R1/1007	LKD	19-Mar	3.8	✓
F2/1007	R2/1007	STUDIO	21-Mar	0.0	✗
F3/1007	R3/1007	STUDIO	21-Mar	0.0	✗
F4/1007	R4/1007	STUDIO	21-Mar	0.0	✗
F5/1007	R5/1007	STUDIO	21-Mar	0.0	✗
F6/1007	R6/1007	STUDIO	21-Mar	0.0	✗
F7/1007	R7/1007	STUDIO	21-Mar	2.3	✓
F8/1007	R8/1007	STUDIO	20-Mar	3.4	✓
F1/1008	R1/1008	LKD	21-Mar	3.0	✓
F10/1008	R10/1008	STUDIO	21-Mar	0.0	✗
F11/1008	R11/1008	STUDIO	21-Mar	0.0	✗

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Unit	Room	Room Use	Date	Sunlight Exposure (Hours)	Room Complies?
F12/1008	R12/1008	STUDIO	21-Mar	5.3	✓
F13/1008	R13/1008	STUDIO	21-Mar	5.3	✓
F5/1008	R5/1008	STUDIO	21-Mar	0.0	✗
F6/1008	R6/1008	STUDIO	21-Mar	0.0	✗
F7/1008	R7/1008	STUDIO	21-Mar	0.0	✗
F8/1008	R8/1008	STUDIO	21-Mar	0.0	✗
F9/1008	R9/1008	STUDIO	21-Mar	0.0	✗
F1/1009	R1/1009	LKD	21-Mar	3.0	✓
F10/1009	R10/1009	STUDIO	21-Mar	0.0	✗
F11/1009	R11/1009	STUDIO	21-Mar	0.0	✗
F12/1009	R12/1009	STUDIO	21-Mar	5.3	✓
F13/1009	R13/1009	STUDIO	21-Mar	5.3	✓
F5/1009	R5/1009	STUDIO	21-Mar	0.0	✗
F6/1009	R6/1009	STUDIO	21-Mar	0.0	✗
F7/1009	R7/1009	STUDIO	21-Mar	0.0	✗
F8/1009	R8/1009	STUDIO	21-Mar	0.0	✗
F9/1009	R9/1009	STUDIO	21-Mar	0.0	✗
F1/1010	R1/1010	LKD	21-Mar	3.0	✓
F10/1010	R10/1010	STUDIO	21-Mar	0.0	✗

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Unit	Room	Room Use	Date	Sunlight Exposure (Hours)	Room Complies?
F11/1010	R11/1010	STUDIO	21-Mar	0.0	✗
F12/1010	R12/1010	STUDIO	21-Mar	5.3	✓
F13/1010	R13/1010	STUDIO	21-Mar	5.3	✓
F5/1010	R5/1010	STUDIO	21-Mar	0.0	✗
F6/1010	R6/1010	STUDIO	21-Mar	0.0	✗
F7/1010	R7/1010	STUDIO	21-Mar	0.0	✗
F8/1010	R8/1010	STUDIO	21-Mar	0.0	✗
F9/1010	R9/1010	STUDIO	21-Mar	0.0	✗
F1/1011	R1/1011	LKD	21-Mar	3.0	✓
F10/1011	R10/1011	STUDIO	21-Mar	0.0	✗
F11/1011	R11/1011	STUDIO	21-Mar	0.0	✗
F12/1011	R12/1011	STUDIO	21-Mar	5.3	✓
F13/1011	R13/1011	STUDIO	21-Mar	5.3	✓
F5/1011	R5/1011	STUDIO	21-Mar	0.0	✗
F6/1011	R6/1011	STUDIO	21-Mar	0.0	✗
F7/1011	R7/1011	STUDIO	21-Mar	0.0	✗
F8/1011	R8/1011	STUDIO	21-Mar	0.0	✗
F9/1011	R9/1011	STUDIO	21-Mar	0.0	✗
F1/1012	R1/1012	LKD	21-Mar	3.3	✓

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Unit	Room	Room Use	Date	Sunlight Exposure (Hours)	Room Complies?
F10/1012	R10/1012	STUDIO	21-Mar	0.0	✗
F11/1012	R11/1012	STUDIO	21-Mar	0.0	✗
F12/1012	R12/1012	STUDIO	21-Mar	5.3	✓
F13/1012	R13/1012	STUDIO	21-Mar	5.3	✓
F5/1012	R5/1012	STUDIO	21-Mar	0.0	✗
F6/1012	R6/1012	STUDIO	21-Mar	0.0	✗
F7/1012	R7/1012	STUDIO	21-Mar	0.0	✗
F8/1012	R8/1012	STUDIO	21-Mar	0.0	✗
F9/1012	R9/1012	STUDIO	21-Mar	0.0	✗
F1/1013	R1/1013	LKD	21-Mar	3.8	✓
F10/1013	R10/1013	STUDIO	21-Mar	0.0	✗
F11/1013	R11/1013	STUDIO	21-Mar	0.0	✗
F12/1013	R12/1013	STUDIO	21-Mar	5.3	✓
F13/1013	R13/1013	STUDIO	21-Mar	5.3	✓
F5/1013	R5/1013	STUDIO	21-Mar	0.0	✗
F6/1013	R6/1013	STUDIO	21-Mar	0.0	✗
F7/1013	R7/1013	STUDIO	21-Mar	0.0	✗
F8/1013	R8/1013	STUDIO	21-Mar	0.0	✗
F9/1013	R9/1013	STUDIO	21-Mar	0.0	✗

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Unit	Room	Room Use	Date	Sunlight Exposure (Hours)	Room Complies?
F1/1014	R1/1014	LKD	21-Mar	4.3	✓
F10/1014	R10/1014	STUDIO	21-Mar	0.0	✗
F11/1014	R11/1014	STUDIO	21-Mar	0.0	✗
F12/1014	R12/1014	STUDIO	21-Mar	5.3	✓
F13/1014	R13/1014	STUDIO	21-Mar	5.3	✓
F5/1014	R5/1014	STUDIO	21-Mar	0.0	✗
F6/1014	R6/1014	STUDIO	21-Mar	0.0	✗
F7/1014	R7/1014	STUDIO	21-Mar	0.0	✗
F8/1014	R8/1014	STUDIO	21-Mar	0.0	✗
F9/1014	R9/1014	STUDIO	21-Mar	0.0	✗
F1/1015	R1/1015	LKD	21-Mar	4.6	✓
F10/1015	R10/1015	STUDIO	21-Mar	0.0	✗
F11/1015	R11/1015	STUDIO	21-Mar	0.0	✗
F12/1015	R12/1015	STUDIO	21-Mar	5.3	✓
F13/1015	R13/1015	STUDIO	21-Mar	5.3	✓
F5/1015	R5/1015	STUDIO	21-Mar	0.0	✗
F6/1015	R6/1015	STUDIO	21-Mar	0.0	✗
F7/1015	R7/1015	STUDIO	21-Mar	0.0	✗
F8/1015	R8/1015	STUDIO	21-Mar	0.0	✗

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Unit	Room	Room Use	Date	Sunlight Exposure (Hours)	Room Complies?
F9/1015	R9/1015	STUDIO	21-Mar	0.0	✗
F1/1016	R1/1016	LKD	21-Mar	4.3	✓
F10/1016	R10/1016	STUDIO	21-Mar	0.0	✗
F11/1016	R11/1016	STUDIO	21-Mar	0.0	✗
F12/1016	R12/1016	STUDIO	21-Mar	5.3	✓
F13/1016	R13/1016	STUDIO	21-Mar	5.3	✓
F5/1016	R5/1016	STUDIO	21-Mar	0.0	✗
F6/1016	R6/1016	STUDIO	21-Mar	0.0	✗
F7/1016	R7/1016	STUDIO	21-Mar	0.0	✗
F8/1016	R8/1016	STUDIO	21-Mar	0.0	✗
F9/1016	R9/1016	STUDIO	21-Mar	0.0	✗
F1/1017	R1/1017	LKD	21-Mar	4.9	✓
F10/1017	R10/1017	STUDIO	21-Mar	0.0	✗
F11/1017	R11/1017	STUDIO	21-Mar	0.0	✗
F12/1017	R12/1017	STUDIO	21-Mar	5.3	✓
F13/1017	R13/1017	STUDIO	21-Mar	5.3	✓
F5/1017	R5/1017	STUDIO	21-Mar	0.0	✗
F6/1017	R6/1017	STUDIO	21-Mar	0.0	✗
F7/1017	R7/1017	STUDIO	21-Mar	0.0	✗

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Unit	Room	Room Use	Date	Sunlight Exposure (Hours)	Room Complies?
F8/1017	R8/1017	STUDIO	21-Mar	0.0	✗
F9/1017	R9/1017	STUDIO	21-Mar	0.0	✗
F1/1018	R1/1018	LKD	21-Mar	5.1	✓
F10/1018	R10/1018	STUDIO	21-Mar	0.0	✗
F11/1018	R11/1018	STUDIO	21-Mar	0.0	✗
F12/1018	R12/1018	STUDIO	21-Mar	5.3	✓
F13/1018	R13/1018	STUDIO	21-Mar	5.3	✓
F5/1018	R5/1018	STUDIO	21-Mar	0.0	✗
F6/1018	R6/1018	STUDIO	21-Mar	0.0	✗
F7/1018	R7/1018	STUDIO	21-Mar	0.0	✗
F8/1018	R8/1018	STUDIO	21-Mar	0.0	✗
F9/1018	R9/1018	STUDIO	21-Mar	0.0	✗
F1/1019	R1/1019	LKD	21-Mar	4.7	✓
F10/1019	R10/1019	STUDIO	21-Mar	0.0	✗
F11/1019	R11/1019	STUDIO	21-Mar	0.0	✗
F12/1019	R12/1019	STUDIO	21-Mar	5.3	✓
F13/1019	R13/1019	STUDIO	21-Mar	5.3	✓
F5/1019	R5/1019	STUDIO	21-Mar	0.0	✗
F6/1019	R6/1019	STUDIO	21-Mar	0.0	✗

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Unit	Room	Room Use	Date	Sunlight Exposure (Hours)	Room Complies?
F7/1019	R7/1019	STUDIO	21-Mar	0.0	✗
F8/1019	R8/1019	STUDIO	21-Mar	0.0	✗
F9/1019	R9/1019	STUDIO	21-Mar	0.0	✗
F1/1020	R1/1020	LKD	21-Mar	5.1	✓
F10/1020	R10/1020	STUDIO	21-Mar	0.0	✗
F11/1020	R11/1020	STUDIO	21-Mar	0.0	✗
F12/1020	R12/1020	STUDIO	21-Mar	5.3	✓
F13/1020	R13/1020	STUDIO	21-Mar	5.3	✓
F5/1020	R5/1020	STUDIO	21-Mar	0.0	✗
F6/1020	R6/1020	STUDIO	21-Mar	0.0	✗
F7/1020	R7/1020	STUDIO	21-Mar	0.0	✗
F8/1020	R8/1020	STUDIO	21-Mar	0.0	✗
F9/1020	R9/1020	STUDIO	21-Mar	0.0	✗
F1/1021	R1/1021	LKD	21-Mar	5.1	✓
F10/1021	R10/1021	STUDIO	21-Mar	0.0	✗
F11/1021	R11/1021	STUDIO	21-Mar	0.0	✗
F12/1021	R12/1021	STUDIO	21-Mar	5.3	✓
F13/1021	R13/1021	STUDIO	21-Mar	5.3	✓
F5/1021	R5/1021	STUDIO	21-Mar	0.0	✗

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Unit	Room	Room Use	Date	Sunlight Exposure (Hours)	Room Complies?
F6/1021	R6/1021	STUDIO	21-Mar	0.0	✗
F7/1021	R7/1021	STUDIO	21-Mar	0.0	✗
F8/1021	R8/1021	STUDIO	21-Mar	0.0	✗
F9/1021	R9/1021	STUDIO	21-Mar	0.0	✗
F1/1022	R1/1022	LKD	10-Feb	4.8	✓
F10/1022	R10/1022	STUDIO	21-Mar	0.0	✗
F11/1022	R11/1022	STUDIO	21-Mar	0.0	✗
F12/1022	R12/1022	STUDIO	21-Mar	5.3	✓
F13/1022	R13/1022	STUDIO	21-Mar	5.3	✓
F5/1022	R5/1022	STUDIO	21-Mar	0.0	✗
F6/1022	R6/1022	STUDIO	21-Mar	0.0	✗
F7/1022	R7/1022	STUDIO	21-Mar	0.0	✗
F8/1022	R8/1022	STUDIO	21-Mar	0.0	✗
F9/1022	R9/1022	STUDIO	21-Mar	0.0	✗
F1/1023	R1/1023	LKD	21-Mar	5.1	✓
F10/1023	R10/1023	STUDIO	21-Mar	0.0	✗
F11/1023	R11/1023	STUDIO	21-Mar	0.0	✗
F12/1023	R12/1023	STUDIO	21-Mar	5.3	✓
F13/1023	R13/1023	STUDIO	21-Mar	5.3	✓

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Unit	Room	Room Use	Date	Sunlight Exposure (Hours)	Room Complies?
F5/1023	R5/1023	STUDIO	21-Mar	0.0	✘
F6/1023	R6/1023	STUDIO	21-Mar	0.0	✘
F7/1023	R7/1023	STUDIO	21-Mar	0.0	✘
F8/1023	R8/1023	STUDIO	21-Mar	0.0	✘
F9/1023	R9/1023	STUDIO	21-Mar	0.0	✘
					28.6%