

Daylight & Sunlight Self-Test Assessment

for

Railway Approach
Worthing
BN11 1UR

Client: Architectus Limited
Date of Issue: 14 July 2026
Prepared by: Ike Awunor BA Arch

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1.0 Introduction

Blackacre has been appointed by Architectus Ltd to undertake a Daylight and Sunlight self-assessment in relation to the revised proposed development at Capella House Car Park, Worthing. The scheme comprises 27 residential units, including 18 one-bedroom flats and 9 two-bedroom flats, of which 13 are market units and 14 are affordable units.

This report pertains solely to the proposed scheme. However, a separate Daylight and Sunlight report relating to the surrounding properties has been prepared and will be submitted in tandem.

We have prepared this assessment for Local Planning Authorities in accordance with Building Research Establishment Good Practice Guide 209 - *Site Layout Planning for Daylight and Sunlight (2022 edition)*. Which complements and is to be read in conjunction with, BS EN 17037 *Daylight in Buildings* and CIBSE LG 10 *Daylighting – a guide for designers*.

The BRE 209 guide, is only guidance and should be treated as such. *'The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not mandatory and this document 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 because natural lighting is only one of many factors in site layout design (see Section 5). In special circumstances the developer or Planning Authority may wish to use different target values. For example, in an historic city centre, or in an area with modern high rise buildings, a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings.'*

It should be noted that BRE 209 is national guidance; therefore, it should be applied flexibly having regard to site specific context. In certain circumstances the planning authority may wish to use alternative target values.

For example, in a city centre, or urban location, a high degree of obstruction may be unavoidable if new developments are to match the height and proportions of the existing buildings, and development sites are to be optimised for much needed housing delivery.

Further information on the BRE Guidance can be found in Appendix A.

1.1 Sources of Information

This Daylight and Sunlight assessment has been prepared using various forms of data available to us, as listed below.

- **Architects Drawings (Proposed Scheme) – Provided by client**
Scheme Plans and Elevations,
CAD files

2.0 Methodologies applied

In this report our 3D testing environment (computer model) has been technically assessed using the methodologies below. These are the fundamental tests included in the Building Research Establishment Good Practice Guide 209 - *Site Layout Planning for Daylight and Sunlight*.

Kitchens and/or dining areas located to the rear of open-plan rooms have been excluded from the daylight analysis where they are not directly served by the principal window. Consistent with the principles of BRE *Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice* (BRE 209), the analysis focuses on the principal habitable areas where occupants are expected to spend the majority of daytime hours. Including these deep-plan ancillary areas, which are often screened by fixed kitchen units and receive limited daylight, would not be representative of the daylight conditions experienced within the primary living space and would place an undue burden on the room's overall daylight performance.

2.1 New Development

Daylight Assessment

Illuminance (Spatial Daylight Autonomy)

Sunlight assessment

Sunlight Exposure (SE)

3.0 The Proposed Development

The proposed development at Railway Approach involves the redevelopment of the existing car park to provide 27 residential units, comprising 18 one-bedroom flats and 9 two-bedroom flats within a single block. The residential units are arranged across the first to sixth floors of the building. For a complete overview of the layouts, please refer to the architects' drawings.



FIGURE 3A – RAILWAY APPROACH



FIGURE 3B – PROPOSED 1ST FLOOR LAYOUT

4.0 Information Used

Our assessment has been based on architect's drawings provided by the client, listed below.

Description	Drawing No.	Date
Proposed Drawings	24_014_002-014	18/06/25

Note: we have been provided with CAD drawings

4.1 – Input Parameters

We have used the following inputs for the technical study of Illuminance (SDA) for the self-test.

Room parameters

- Ceilings - White
- Walls - White
- Floors – Carpet (cream)
- Working plane – 760mm

Window parameters

- Glazing transmittance – 0.68
- Maintenance factor – 8%

Surrounding surface

- Brickwork (Brown), & Paving

5.0 – Daylighting & Sunlighting Self-Test

5.0.1 – Illuminance (SDA)

As per the 2022 version of the BRE Guidance we have assessed the internal rooms of the proposed development using the Spatial Daylight Autonomy (SDA) methodology, also known as illuminance. The development entails 64 habitable spaces, consisting of 39 bedrooms and 27 combined living, kitchen and dining areas.

Our technical analysis indicates that of the 64 habitable room tested, 58 will fully satisfy the BRE guidance SDA recommended standards. With all 58 rooms reaching the required level of 200 lux over 50% of the room area. Constituting a compliance rate of 91%.

The results and contours that illustrate this can be found in Appendix C.

5.0.2 – Sunlight Exposure

In line with the BRE guidance we have assessed all habitable rooms, the entirety of which have main windows within 90° of south.

We applied the Sunlight Exposure methodology to a total of 64 rooms. 55 of the rooms tested meet the standards outlined in the BRE guidance, receiving adequate amount of sunlight. Constituting a compliance rate of 85.9%.

The results and contours that illustrate this can be found in Appendix C.

6.0 Conclusion

We have conducted a Daylight and Sunlight self-assessment for the revised proposed development at Railway approach, on behalf of Architectus Ltd.

Our analysis employed the Spatial Daylight Autonomy (SDA) methodology, in line with the standards outlined in the Building Research Establishment (BRE) guidance. The assessment demonstrates that the redevelopment, comprising 64 habitable spaces, achieves a high and favourable pass rate (91%), indicating sufficient daylight provision across the development.

While the majority of spaces exhibit above-adequate daylight performance, as anticipated, a few spaces located in parts of the proposed structure that are self-obstructing in nature experience reduced daylight levels, primarily due to the building's configuration, which inherently limits daylight penetration to these specific areas. This is an expected outcome for a development in an urban location.

Using the Sunlight Exposure methodology, we evaluated sunlight availability. Our findings indicate that 85.9% of rooms tested easily meet the standards prescribed in the BRE guidance. We conclude that the overall sunlight provision across the proposed scheme is satisfactory, with good sunlighting levels observed.

In summary, the proposed development at Railway Approach demonstrates a high level of compliance with the BRE standards for both daylight and sunlight. Although a small number of rooms fall below the recommended criteria due to the buildings configuration constraints, the assessment confirms that the development will provide an acceptable standard of natural daylight and sunlight to the principal habitable spaces, resulting in a comfortable and well-lit living environment.

Report prepared by: Ike Awunor BA Arc

Signed: [REDACTED]

Report reviewed by: Ben Salvage MRICS

Signed: [REDACTED]

Date: 14 July 2026

For and on behalf of Blackacre Chartered Surveyors & Valuers

Appendix A – Overview of Daylight and Sunlight

Good natural lighting is needed for a range of factors, enjoyment, mental health, working, reading etc. It is also good for energy efficiency and reduces the need for electric lighting and allows for solar gain during the winter.

This BRE Guidance 209 (2022) should be read in conjunction with BS EN 17037 Daylight in Buildings and CIBSE LG 10 Daylighting – a guide for designers. This guide complements them by providing advice on planning of the external environment.

Dr Littlefair's BRE Guide 209 -*Site Layout Planning for Daylight and Sunlight 2011*, has now been superseded by a 2022 version. This sets out numerical recommendations to establish if someone's light levels will be suitable following a development. It measures the amount and significance of loss to neighbouring buildings and light levels for future occupiers of new developments.

The figures within the guide are not absolute and are intended as recommendations only. Dr Littlefair says in his report *'The guide is intended for building designers and their clients, consultants and planning officials. The advice given here is not mandatory and this document 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 because natural lighting is only one of many factors in site layout design (see Section 5). In special circumstances the developer or Planning Authority may wish to use different target values. For example, in an historic city centre, or in an area with modern high rise buildings, a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings'*.

The BRE Guide is national guidance and should be treated as such. The guide states *'In special circumstances the developer or planning authority may wish to use different target values. For example, in a historic city centre, or in an area with modern high rise buildings, a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings... The calculation methods ... are entirely flexible in this respect'*

The BRE Guide uses various tests which are detailed below;

Daylighting

There are initial rules of thumb tests that are quite general but can give an early indication to whether daylighting is likely to be significantly affected. The three times height test is a measure of the height of the proposed development, compared to the distance from the lowest window of the surrounding building. The additional initial test is the 25° line. If the development does not protrude over a 25° from the lowest window, it is unlikely to cause significant light damage.

The main tests for daylighting are noted below, and are in part (interior assessment) taken from methodologies specified in the British Standard BS EN 17037 – *Daylight in buildings*.

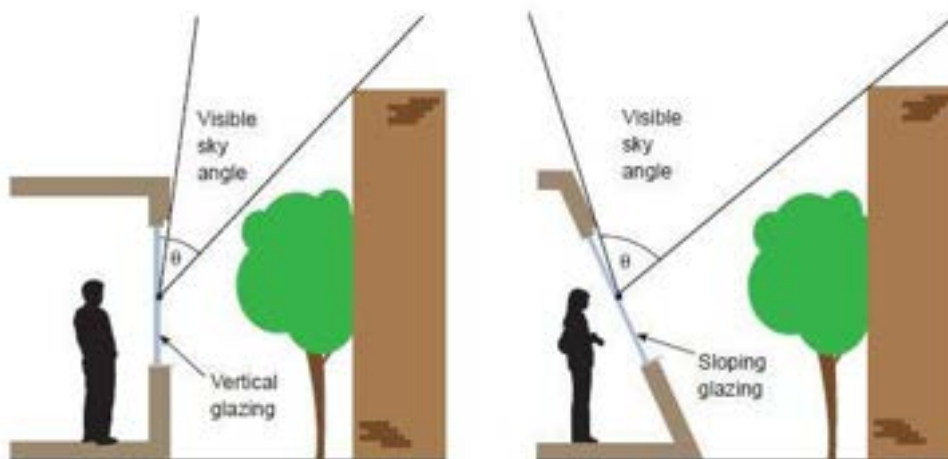
Vertical Sky Component (VSC)

In the BRE guide, this is described as a ‘Ratio of that part of illuminance, at a point on a given vertical plane, that is received directly from a CIE standard overcast sky, to illuminance on a horizontal plane due to a n unobstructed hemisphere to this sky. Usually the ‘given vertical plane’ is the outside of a window wall. The VSC does not include reflected light, either from the ground or from other buildings’.

In simpler terms, this is a ratio of the available skylight compared to the maximum amount of skylight from a sky dome, measured from the external surface of the window.

This is demonstrated as a percentage. The BRE guide recommends that a minimum figure of 27% should be achieved to the window of a habitable room. This would indicate a reasonable lit space and is acceptable. For surrounding windows, an important attribute of the development, is to prevent any noticeable change to surrounding buildings. The BRE guide suggests that the VSC figure should not be reduced to any less than 0.8 its original value (20% reduction) in order to achieve this. Any more and it may be seen as be a noticeable change and therefore possible grounds for rejection.

A 27% VSC result would indicate a reasonably lit room. This also equates to a 25° clear sky path as discussed above.



Illuminance (I)

This is a relatively new methodology for interior daylight assessment, recommended in the British Standard BS EN 17037 – *Daylight in buildings*, and new to the 2022 BRE 209 guidance.

This methodology involves using locational data of the development site to understand the typical weather conditions relevant to its position. This is used to calculate with software, the internal illuminance from daylight at each grid point of the reference plane (typically 850mm above floor level).

A target illuminance should be achieved, across at least half of the reference plane in a daylight space for at least half of the daylight hours. A secondary target illuminance should also be achieved across 95% of the reference plane for at least half of the daylight hours, this is the minimum target illuminance to be achieved towards the back of the room

Table C1 below provides these target illuminances for side lit rooms.

Table C1 – Target illuminances from daylight over at least half of the daylight hours		
Level of recommendation	Target illuminance E_t (lx) for half of assessment grid	Target illuminance E_{TM} (lx) for 95% of assessment grid
Minimum	300	100
Medium	500	300
High	750	500

Daylight factor (D)

This methodology involves assessment of the daylight factor, at each assessment point on the reference plane. With the intention of reaching a target daylight factor to give an indication of light levels to be expected.

Note: the daylight factor is the illuminance at a point on the reference plane compared to the illuminance of an unobstructed horizontal surface externally. In short, it is a ratio between internal and external daylight. The CIE standard overcast sky is used for uniform illuminance levels.

Since the calculation uses an overcast sky model and is uniform, the daylight factor is independent of orientation and location.

Table C2 below gives the daylight factor targets for lit rooms in London. The National Annex to BS EN 17037 gives values for other UK locations. Different target supply in spaces with horizontal rooflights.

Table C2 – Target daylight factors (D) for London		
Level of recommendation	Target daylight factor D for half of assessment grid	Target daylight factor D for 95% of assessment grid
Minimum	2.1%	0.7%
Medium	3.5%	2.1%
High	5.3%	3.5%

The recommendations for side lit rooms are met if both target daylight factors (the median daylight factor over 50% of the reference plane, and the minimum daylight factor over 95% of the reference plane) are achieved.

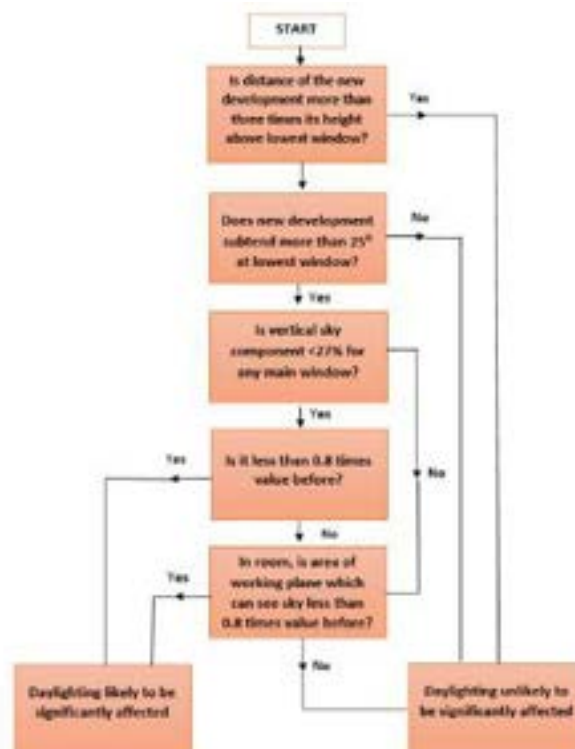
No Sky Line (NSL)

In the BRE guide, this is described as a *‘the outline on the working plane of the area from which no sky can be seen’*

This test looks at the depth at which daylight can penetrate into the room, measured from a working plane of 850mm above floor level. Areas within the shade are likely to experience darker illuminance.

The BRE guide suggests that in new developments the rooms should have no more than 20% of its room in shade. The surrounding habitable rooms can experience some loss, but the guidance states that this should be limited to no less than 0.8 of its original value (20% reduction).

This process of assessment can be seen in the decision chart, as per the BRE guide;



Sunlighting

Sunlight is an important commodity to many people and the design and orientation of a building's and its windows should be thoroughly considered. The BRE guide puts emphasis on domestic buildings, however it does mention that care should be taken for 'non-domestic buildings where there is a particular requirement for sunlight'.

The United Kingdom being situated in the Northern Hemisphere, we therefore predominately get our sunlight from the South. Unlike daylight which is uniform and achieved from the sky, sunlight will be largely determined due to orientation of the windows. Due to this reason, the BRE advises that only windows within 90° or due south should be tested.

In new developments the BRE guide suggests that a window to a living room should face within 90° of due south to maximise exposure to sunlight. *'A dwelling with no main window wall within 90° of due south is likely to be perceived as insufficiently sunlit'.*

In existing dwellings the BRE guide suggests that *'all main living rooms of dwellings, and conservatories, should be checked if they have a window facing within 90° of due south. Kitchens and bedrooms are less important, although care should be taken not to block too much sun'.*

Annual Probable Sunlight Hours (APSH)

In the BRE guide, this is described as *'the long-term average of the total number of hours during a year in which direct sunlight reaches the unobstructed ground (when clouds are taken into account).'*

In a new development the BRE guide suggests that a dwelling will be reasonably sunlit provided;

- *at least one main window wall faces within 90° of due south and;*
- *the centre of at least one window to a main living room can receive 25% of annual probable sunlight hours, including at least 5% of annual probable sunlight hours in the winter months between 21st September and 21st March.*

In existing buildings, the BRE guide suggests that; *'If a living room or an existing dwelling has a main window facing 90° of due south, and any part of a new development subtends an angle of more than 25° to the horizontal measured from the centre of the window in a vertical section perpendicular to the window., then the sunlighting to the existing dwelling may be adversely affected. This will be the case 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 21st September and 21st 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.*

Overshadowing of Gardens and Open Spaces

Good sunlighting should not be limited to habitable space. The BRE advises that amenity spaces should be considered also to ensure that these enjoyable spaces are not fully cast in shadow throughout the year.

According to the BRE guide the amenity spaces that should be included in analysis are;

- Gardens, usually the main back garden of a house
- Parks and playing fields
- Children's playgrounds
- Outdoor swimming pools
- Sitting areas
- Focal points

The guideline state that;

'It is recommended that for it to appear adequately sunlit throughout the year, at least half of a garden or amenity area should receive at least two hours of sunlight on 21st 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 sun on 21st March is less than 0.8 times its former value, then the loss of sunlight is likely to be noticeable. If a detailed calculation cannot be carried out, it is recommended that the centre of the area should receive at least two hours of sunlight on 21st March'.

Appendix B –3D Testing Environment

[illegible]

A 2x15 grid of small squares. The top row contains 15 squares, with the 10th, 11th, 12th, 13th, and 14th squares shaded gray. The bottom row contains 15 squares, with the 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, 10th, 11th, 12th, 13th, 14th, and 15th squares shaded gray.

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Blackacre
CHARTERED SURVEYORS & VALUERS

107 – 111 Fleet Street, London, EC4A 2AB

107 – 111 Fleet Street, London, EC4A 3AB

ARCHITECTUS LTD

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Appendix C –Results

Project Name: Railway A Self - Test 130726
Project No.:
Report Title: SDA BS En17037 Analysis - Proposed Scheme
Date of Analysis:

										Criteria				
Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Room Area m2	Effective Area	Median Lux	Area Meeting Req Lux	% of Area Meeting Req Lux	Req Lux	Req % of Effective Area	Req % of Daylight Hours	Daylight Hours	Meets Criteria
Proposed Scheme														
First	R1		Residential	Bedroom	7.35	4.30	197	4.11	96%	100	50%	50%	4380	YES
	R2		Residential	Bedroom	9.52	6.06	683	6.06	100%	100	50%	50%	4380	YES
	R3		Residential	LKD	24.38	18.43	346	16.54	90%	200	50%	50%	4380	YES
	R4		Residential	Living Room	9.03	5.76	186	4.75	83%	150	50%	50%	4380	YES
	R5		Residential	Bedroom	18.35	13.23	18	1.73	13%	100	50%	50%	4380	NO
	R6		Residential	Bedroom	11.57	7.83	140	5.22	67%	100	50%	50%	4380	YES
	R7		Residential	Living Room	11.09	7.47	202	5.49	74%	150	50%	50%	4380	YES
	R8		Residential	Bedroom	12.52	8.49	108	4.80	57%	100	50%	50%	4380	YES
	R9		Residential	LD	14.00	9.79	194	4.72	48%	200	50%	50%	4380	NO
	R10		Residential	Bedroom	15.60	11.13	150	9.18	83%	100	50%	50%	4380	YES
	R11		Residential	Bedroom	12.95	8.86	142	6.08	69%	100	50%	50%	4380	YES
	R12		Residential	Bedroom	12.09	8.15	168	7.06	87%	100	50%	50%	4380	YES
	R13		Residential	Living Room	9.74	6.17	960	6.17	100%	150	50%	50%	4380	YES
	R14		Residential	Bedroom	10.00	6.55	144	4.73	72%	100	50%	50%	4380	YES
Second	R1		Residential	Bedroom	7.35	4.30	192	4.11	96%	100	50%	50%	4380	YES
	R2		Residential	Bedroom	9.52	6.06	669	6.06	100%	100	50%	50%	4380	YES
	R3		Residential	LKD	24.38	18.43	386	17.35	94%	200	50%	50%	4380	YES
	R4		Residential	Living Room	11.29	7.56	195	6.03	80%	150	50%	50%	4380	YES
	R5		Residential	Bedroom	18.35	13.23	29	2.83	21%	100	50%	50%	4380	NO
	R6		Residential	Bedroom	11.57	7.83	151	5.70	73%	100	50%	50%	4380	YES
	R7		Residential	Living Room	11.09	7.47	262	6.44	86%	150	50%	50%	4380	YES
	R8		Residential	Bedroom	12.52	8.49	114	5.35	63%	100	50%	50%	4380	YES
	R9		Residential	LD	14.00	9.79	236	6.73	69%	200	50%	50%	4380	YES
	R10		Residential	Bedroom	15.60	11.13	224	10.68	96%	100	50%	50%	4380	YES
	R11		Residential	Bedroom	12.95	8.86	148	6.43	73%	100	50%	50%	4380	YES
	R12		Residential	Bedroom	12.09	8.15	165	7.35	90%	100	50%	50%	4380	YES
	R13		Residential	Living Room	9.74	6.17	1261	6.17	100%	150	50%	50%	4380	YES
	R14		Residential	Bedroom	10.00	6.55	166	5.37	82%	100	50%	50%	4380	YES
Third	R1		Residential	Bedroom	7.35	4.30	214	4.30	100%	100	50%	50%	4380	YES
	R2		Residential	Bedroom	9.52	6.06	705	6.06	100%	100	50%	50%	4380	YES
	R3		Residential	LKD	24.38	18.43	417	18.07	98%	200	50%	50%	4380	YES
	R4		Residential	Living Room	11.29	7.56	192	6.21	82%	150	50%	50%	4380	YES
	R5		Residential	Bedroom	15.42	10.69	39	2.55	24%	100	50%	50%	4380	NO
	R6		Residential	Bedroom	11.57	7.83	171	6.57	84%	100	50%	50%	4380	YES
	R7		Residential	Living Room	11.09	7.47	258	6.78	91%	150	50%	50%	4380	YES
	R8		Residential	Bedroom	12.52	8.49	128	6.27	74%	100	50%	50%	4380	YES
	R9		Residential	LD	14.00	9.79	228	6.90	71%	200	50%	50%	4380	YES
	R10		Residential	Bedroom	11.56	7.82	181	7.28	93%	100	50%	50%	4380	YES
	R11		Residential	Bedroom	10.87	6.99	372	6.99	100%	100	50%	50%	4380	YES

Project Name: Railway A Self - Test 130726
Project No.:
Report Title: SDA BS En17037 Analysis - Proposed Scheme
Date of Analysis:

										Criteria				Meets Criteria
Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Room Area m2	Effective Area	Median Lux	Area Meeting Req Lux	% of Area Meeting Req Lux	Req Lux	Req % of Effective Area	Req % of Daylight Hours	Daylight Hours	
	R12		Residential	LKD	31.47	23.67	704	23.67	100%	200	50%	50%	4380	YES
Fourth	R1		Residential	Bedroom	7.35	4.30	211	4.30	100%	100	50%	50%	4380	YES
	R2		Residential	Bedroom	9.52	6.06	719	6.06	100%	100	50%	50%	4380	YES
	R3		Residential	LKD	24.38	18.43	452	18.34	100%	200	50%	50%	4380	YES
	R4		Residential	Living Room	11.29	7.56	207	6.30	83%	150	50%	50%	4380	YES
	R5		Residential	Bedroom	15.42	10.69	46	3.03	28%	100	50%	50%	4380	NO
	R6		Residential	Bedroom	11.57	7.83	193	7.05	90%	100	50%	50%	4380	YES
	R7		Residential	Living Room	11.09	7.47	285	7.38	99%	150	50%	50%	4380	YES
	R8		Residential	Bedroom	12.52	8.49	136	6.73	79%	100	50%	50%	4380	YES
	R9		Residential	LD	14.00	9.79	577	9.44	96%	200	50%	50%	4380	YES
Fifth	R1		Residential	Bedroom	7.35	4.30	216	4.30	100%	100	50%	50%	4380	YES
	R2		Residential	Bedroom	9.52	6.06	718	6.06	100%	100	50%	50%	4380	YES
	R3		Residential	LKD	24.38	18.43	549	18.43	100%	200	50%	50%	4380	YES
	R4		Residential	Living Room	11.29	7.56	331	7.38	98%	150	50%	50%	4380	YES
	R5		Residential	Bedroom	15.42	10.69	74	4.35	41%	100	50%	50%	4380	NO
	R6		Residential	Bedroom	11.57	7.83	234	7.63	98%	100	50%	50%	4380	YES
	R7		Residential	Living Room	11.09	7.47	448	7.47	100%	150	50%	50%	4380	YES
	R8		Residential	Bedroom	12.52	8.49	174	7.93	93%	100	50%	50%	4380	YES
	R9		Residential	LD	14.00	9.79	811	9.79	100%	200	50%	50%	4380	YES
Sixth	R1		Residential	LKD	23.16	17.70	691	17.70	100%	200	50%	50%	4380	YES
	R2		Residential	Bedroom	9.74	6.24	146	4.04	65%	100	50%	50%	4380	YES
	R3		Residential	Bedroom	13.90	9.36	131	5.88	63%	100	50%	50%	4380	YES
	R4		Residential	Living Room	13.93	9.79	408	9.79	100%	150	50%	50%	4380	YES
	R5		Residential	Bedroom	10.93	7.22	186	7.13	99%	100	50%	50%	4380	YES
	R6		Residential	Bedroom	14.34	9.50	257	9.31	98%	100	50%	50%	4380	YES

Project Name: Railway A Self - Test 130726
Project No.:
Report Title: Sunlight Exposure Analysis - Neighbour
Date:

Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Existing Sunlight Exposure (Hours)	Proposed Sunlight Exposure (Hours)	Rating
Proposed Scheme									
First	R1		Residential	Bedroom	W1	88°N	4.6	2.1	Minimum
							4.6	2.1	
First	R2		Residential	Bedroom	W2	88°N	4.6	2.1	
					W3	178°	8.1	5.1	
							8.1	7.2	High
First	R3		Residential	LKD	W4	178°	7.9	5.1	
					W5	268°	3.1	1.6	
					W6	268°	3.1	0.1	
					7.9	5.7	High		
First	R4		Residential	Living Room	W7	268°	4.9	1	
							4.9	1	
First	R5		Residential	Bedroom	W8	208°	8.5	2.9	
							8.5	2.9	
First	R6		Residential	Bedroom	W9	208°	8.5	4.4	
							8.5	4.4	
First	R7		Residential	Living Room	W10	208°	8.5	2.7	
							8.5	2.7	
First	R8		Residential	Bedroom	W11	208°	8.5	3.7	
							8.5	3.7	
First	R9		Residential	LD	W12	178°	9.5	0.6	
							-1	0.6	
First	R10		Residential	Bedroom	W13	178°	9.5	1.3	
							9.5	1.3	
First	R11		Residential	Bedroom	W14	178°	9.5	4.6	
							9.5	4.6	
First	R12		Residential	Bedroom	W15	178°	9.5	5.3	
							9.5	5.3	

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Existing Sunlight Exposure (Hours)	Proposed Sunlight Exposure (Hours)	Rating
First	R13		Residential	Living Room	W16	178°	9.5	7.2	
					W17	268°	4.9	3	
							9.5	8.4	High
First	R14		Residential	Bedroom	W18	268°	4.9	2.5	
							4.9	2.5	Minimum
Second	R1		Residential	Bedroom	W1	88°N	4.6	2.1	
							4.6	2.1	Minimum
Second	R2		Residential	Bedroom	W2	88°N	4.6	2.1	
					W3	178°	8.4	5.1	
							8.4	7.2	High
Second	R3		Residential	LKD	W4	178°	8.2	5.1	
					W5	268°	3.4	1.9	
					W6	268°	4.9	2.2	
							9.5	7.5	High
Second	R4		Residential	Living Room	W7	268°	4.9	1	
							4.9	1	Failed
Second	R5		Residential	Bedroom	W8	208°	8.5	3.2	
							8.5	3.2	Medium
Second	R6		Residential	Bedroom	W9	208°	8.5	4.4	
							8.5	4.4	High
Second	R7		Residential	Living Room	W10	208°	8.5	3.6	
							8.5	3.6	Medium
Second	R8		Residential	Bedroom	W11	208°	8.5	4.6	
							8.5	4.6	High
Second	R9		Residential	LD	W12	178°	9.5	0.9	
							-1	0.9	Failed
Second	R10		Residential	Bedroom	W13	178°	9.5	6.2	
							9.5	6.2	High
Second	R11		Residential	Bedroom	W14	178°	9.5	5.1	
							9.5	5.1	High

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Existing Sunlight Exposure (Hours)	Proposed Sunlight Exposure (Hours)	Rating
Second	R12		Residential	Bedroom	W15	178°	9.5	5.1	High
							9.5	5.1	
Second	R13		Residential	Living Room	W16	178°	9.5	7.2	High
					W17	268°	4.9	3.4	
							9.5	8.4	
Second	R14		Residential	Bedroom	W18	268°	4.9	2.5	Minimum
							4.9	2.5	
Third	R1		Residential	Bedroom	W1	88°N	4.6	2.2	Minimum
							4.6	2.2	
Third	R2		Residential	Bedroom	W2	88°N	4.6	2.2	High
					W3	178°	9.5	5.1	
							9.5	7.2	
Third	R3		Residential	LKD	W4	178°	9.5	5.1	High
					W5	268°	4.9	3.4	
					W6	268°	4.9	1.9	
							9.5	7.5	
Third	R4		Residential	Living Room	W7	268°	4.9	1	Failed
							4.9	1	
Third	R5		Residential	Bedroom	W8	208°	8.5	2.9	Minimum
							8.5	2.9	
Third	R6		Residential	Bedroom	W9	208°	8.5	4.9	High
							8.5	4.9	
Third	R7		Residential	Living Room	W10	208°	8.5	2.7	Minimum
							8.5	2.7	
Third	R8		Residential	Bedroom	W11	208°	8.5	3.9	Medium
							8.5	3.9	
Third	R9		Residential	LD	W12	178°	9.5	1.2	Failed
							-1	1.2	
Third	R10		Residential	Bedroom	W13	178°	9.5	4.6	High
							9.5	4.6	

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Existing Sunlight Exposure (Hours)	Proposed Sunlight Exposure (Hours)	Rating
Third	R11		Residential	Bedroom	W14	178°	9.5	7	High
							9.5	7	
Third	R12		Residential	LKD	W15	178°	9.5	8.6	High
					W16	268°	4.9	3.7	
					W17	268°	4.9	2.4	
							9.5	8.6	
Fourth	R1		Residential	Bedroom	W13	88°N	4.6	2.2	Minimum
							4.6	2.2	
Fourth	R2		Residential	Bedroom	W1	88°N	4.6	2.2	High
					W2	178°	9.5	5.1	
							9.5	7.2	
Fourth	R3		Residential	LKD	W3	178°	9.5	5.1	High
					W4	268°	4.9	3.4	
					W5	268°	4.9	1.9	
							9.5	7.5	
Fourth	R4		Residential	Living Room	W6	268°	4.9	1	Failed
							4.9	1	
Fourth	R5		Residential	Bedroom	W7	208°	8.5	2.9	Minimum
							8.5	2.9	
Fourth	R6		Residential	Bedroom	W8	208°	8.5	5	High
							8.5	5	
Fourth	R7		Residential	Living Room	W9	208°	8.5	2.7	Minimum
							8.5	2.7	
Fourth	R8		Residential	Bedroom	W10	208°	8.5	3.9	Medium
							8.5	3.9	
Fourth	R9		Residential	LD	W11	178°	9.5	1.7	Medium
					W12	268°	4.9	2.7	
							-1	3.2	
Fifth	R1		Residential	Bedroom	W1	88°N	4.6	2.2	Minimum
							4.6	2.2	

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Existing Sunlight Exposure (Hours)	Proposed Sunlight Exposure (Hours)	Rating
Fifth	R2		Residential	Bedroom	W2	88°N	4.6	2.2	High
							9.5	5.1	
							9.5	7.2	
Fifth	R3		Residential	LKD	W4	178°	9.5	5.1	High
							4.9	3.4	
							4.9	2.4	
Fifth	R4		Residential	Living Room	W7	268°	9.5	7.5	High
							4.9	1	
							4.9	1	
Fifth	R5		Residential	Bedroom	W8	208°	8.5	5.3	High
							8.5	5.3	
							8.5	5.3	
Fifth	R6		Residential	Bedroom	W9	208°	8.5	5.7	High
							8.5	5.7	
							8.5	5.7	
Fifth	R7		Residential	Living Room	W10	208°	8.5	6.7	High
							8.5	6.7	
							8.5	6.7	
Fifth	R8		Residential	Bedroom	W11	208°	8.5	5.7	High
							8.5	5.7	
							8.5	5.7	
Fifth	R9		Residential	LD	W12	178°	9.5	7.4	High
							4.9	2.7	
							-1	8.6	
Sixth	R1		Residential	LKD	W1	88°N	4.6	1.8	High
							9.5	9.1	
							4.9	3.7	
Sixth	R2		Residential	Bedroom	W4	268°	9.5	9.5	High
							4.9	2.2	
							4.9	2.2	
Sixth	R3		Residential	Bedroom	W5	208°	8.5	4.9	High
							8.5	4.9	
							8.5	4.9	
Sixth	R4		Residential	Living Room	W6	208°	8.5	6.7	High
							8.5	6.7	
							8.5	6.7	

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Floor Ref	Room Ref	Room Attribute	Property Type	Room Use	Window Ref	Window Orientation	Existing Sunlight Exposure (Hours)	Proposed Sunlight Exposure (Hours)	Rating
Sixth	R5		Residential	Bedroom	W7	208°	8.5	4.9	High
							8.5	4.9	
Sixth	R6		Residential	Bedroom	W8	208°	8.5	4.9	High
					W9	268°	4.9	2.4	
							8.5	5.5	



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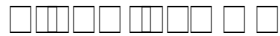
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