SANTRY AVENUE LRD, CHADWICKS BUILDERS MERCHANTS SITE

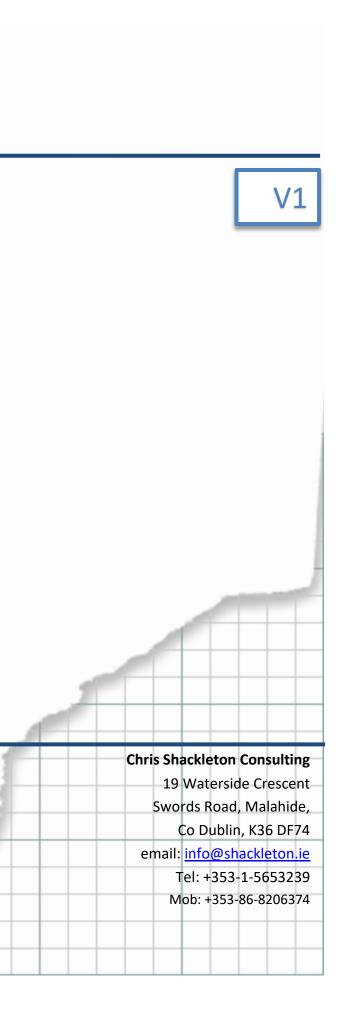
Sunlight , Daylight & Shadow Assessment





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Executive Summary

This report examines the performance of Blocks AB, CD, EF & G in terms of light distribution and the shared amenity spaces. We have also provided a commentary on impact or lack thereof on neighbours.

The report is, in accordance with Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice - Third Edition - 2022.

It should be noted at the outset that the BRE document sets out in its introduction that:

"Summary Page . . . It is purely advisory and the numerical target values within it may be varied to meet the needs of the development and its location."

" 1.6.... 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 quidelines, these should be interpreted flexibly since natural lighting is only one of many factors in site layout design. . . . "

Performance of the proposed design

- Target Illuminance E_T
 - 94% of rooms comply with the BS/EN 17037 Annex NA room targets for 50% of the floor area tested.
 - If we include marginal results this increases to **97%**
 - The average compliant areas achieving the relevant target Lx for
 - all bedrooms is 95% and
 - all Living/Kitchen spaces 80%
 - both are well in excess of the required 50%
- Sunlight to rooms:
 - **86%** of Living rooms receive 1.5hrs of sunlight on the test day of the 21st March
 - If we include marginal results this increases to 90%
 - This is consistent with the BRE defined "careful layout design" 80% target.
- Sunlight on the Ground SOG (Shadow)
 - **100%** of the new provided communal and public amenity spaces pass the BRE requirement.
 - There is considerable overprovision of amenity space.
 - The tested spaces comply with the requirements of the BRE guidelines in relation to shadow.
- Please see Architects comments on alternative, compensatory design solutions relating to light.

The application generally complies with the recommendations and guidelines of Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice (BR209 - 2022) when considered in terms of this infill and regeneration project in an un-developed lot.

Summary impact Neighbours

- Non-residential buildings sit to the West, North and East of the proposal and do not require testing. Phase 1 Santry Place sits to the South of this Phase 2 proposal.
 - Sunlight to amenity and windows of the granted Santry Place cannot be impacted by this current proposal as it sits to the North.
 - In relation to skylight (VSC) this proposal Phase 2 along the interface line is a mirrored development of the permitted and constructed Phase 1 design. Any impact along the closer façades will therefore be compliant with the guidelines and Mirrored development approach of Appendix F.
- The impact of this proposed mirrored Phase 2 development on the existing Phase 1 development is indistinguishable to that of an appendix F mirrored baseline analysis and therefore complaint with the BRE guidelines.

Architects' & Planners' Commentary / Compensatory Measures

The design is constrained as an extension of the Phase 1 regeneration development, by the site shape and orientation. The scheme has a number of competing design constraints and objectives it is specifically covered by clause 6.7 of the Sustainable Urban Housing: Design Standards for New Apartments Guidelines for Planning Authorities – amended July 2023:

6.6 Planning authorities should ensure appropriate expert advice and input where necessary, and have regard to quantitative performance approaches to daylight provision outlined in guides like A New European Standard for Daylighting in Buildings EN17037 or UK National Annex BS EN17037 and the associated BRE Guide 209 2022 Edition (June 2022), or any relevant future guidance specific to the Irish context, when undertaken by development proposers which offer the capability to satisfy minimum standards of daylight provision.

6.7 Where an applicant cannot fully meet all of the requirements of the daylight provisions above, this must be clearly identified and a rationale for any alternative, compensatory design solutions must be set out, which planning authorities should apply their discretion in accepting taking account of its assessment of specific. This may arise due to a design constraints associated with the site or location and the balancing of that assessment against the desirability of achieving wider planning objectives. Such objectives might include 30 securing comprehensive urban regeneration and or an effective urban design and streetscape solution.

Commentary is made in relation to:

- The urban infill site and high-quality sun lit areas such as the public and communal spaces.
- Solar orientation.
- Quality of daylighting.
- Ground floor ceiling heights.

Please refer to the relevant section in the main body of the report for more detail.



Introduction

Chris Shackleton Consulting (CSC) have been asked to examine the performance of Blocks AB, CD, EF & G in terms of light distribution and the shared amenity spaces. We have also provided a commentary on impact or lack thereof on neighbours.

This analysis has been carried out in accordance with the recommendations of Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice - Third Edition (BRE 2022).

All references quoted in this report are from BRE document "Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice – Third Edition – 2022 (BR 209) by Paul Littlefair et al." unless specifically noted otherwise.

Preliminary Overview

The aerial extract from Google Earth shows the context for the site. The proposed development provides for 321 no. apartments, comprised of 104 no. 1 bed, 198 no. 2 bed, & 19 no. 3 bed dwellings, in 4 no. seven to thirteen storey buildings, over basement level, with 3 no. retail units, a medical suite / GP Practice unit and community/arts & culture space (total c.1,483sq.m), all located at ground floor level, as well as a one storey

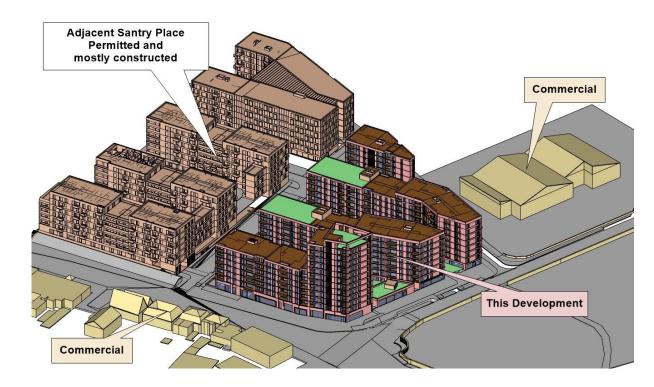


residential amenity unit, facing onto Santry Avenue, located between Blocks A & D.

Google Earth extract © Google 2024

Design Model

A 3D model of the proposed development was provided by the client. This model was extracted from the BIM design model and is an accurate representation proposal and used in this analysis. This model was georeferenced to its correct location and an accurate solar daylight system was introduced. The analysis is based on the information provided.



Scope of this Report

Development Performance

Development performance was examined under the following headings:

- Target Illuminance E_T All habitable rooms •
- Sunlight to rooms A room preferably a living space. •
- Sunlight on the Ground SOG (Shadow) Proposed Public & Shared amenity spaces. •

In keeping with best practice guidelines, we have tested all residential rooms on all floor in all blocks.

Impact on Neighbours

A commentary was also provided relating to Impact on Neighbours.



Development Performance

Development Performance - Target Illuminance ET Metric

National Standards Authority of Ireland have adopted EN 17037 to directly become IS/EN 17037. There are no amendments made to this document and no national Annex localising the same was developed as can be found in BS/EN 17037. The standard document provides only a single target for rooms of new buildings and does not include specific usage targets for spaces for commercial, office and residential (living, bedroom, Kitchen).

The UK variant referenced is more suitable to use in temperate climates where the median external diffuse illuminance is low. We would concur with the UK committee that the recommendations for daylight provision in a space may not be achievable for some buildings, particularly dwellings, which are the subject of this report.

We note the reasoning put forward by the UK committee and concur with their conclusions that different room usage should be assigned different light requirements/targets. Design in Ireland quite often follows the practice and precedent set in the UK. With similar climates, light and receiving environments it is reasonable to adopt BS/EN 17037 / Annex NA which itself was derived from the now withdrawn BS 8206-2:2008 Lighting for buildings – Part 2: Code of practice for daylighting, Subclause 5.6. This provides alignment between the new and old standards and with the levels of light we are used to and deemed acceptable in new developments.

Target illuminance (ET) : Illuminance from daylight that should be achieved for at least half of annual daylight hours across a specified fraction of the reference plane in a daylit space

NA.2 - Minimum daylight provision in UK dwellings

Even if a predominantly daylit appearance is not achievable for a room in a UK dwelling, the UK committee recommends that the target illuminance values given in Table NA.1 are exceeded over at least 50 % of the points on a reference plane 0.85 m above the floor, for at least half of the daylight hours.

Table NA.1 —	Values of target illuminance	for room types in	UK dwellings
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Room type	Target illuminance E _T (lx)
Bedroom	100
Living room	150
Kitchen	200

Derived from BS 8206-2:2008 Lighting for buildings – Part 2: Code of practice for daylighting

Where one room in a UK dwelling serves more than a single purpose, the UK committee recommends that the target illuminance is that for the room type with the highest value – for example, in a space that combines a living room and a kitchen the target illuminance is recommended to be 200 lx

It is the opinion of the UK committee that the recommendation in Clause A.2 – that a target illuminance level should be achieved across the entire (i.e. 95 %) fraction of the reference plane within a space – need not be applied to rooms in dwellings.

This is echoed in The BRE Guidelines

C16 The UK National Annex gives illuminance recommendations of 100 lux in bedrooms, 150 lux in living rooms and 200 lux in kitchens. These are the median illuminances, to be exceeded over at least 50% of the assessment points in the room for at least half of the daylight hours. The recommended levels over 95% of a reference plane need not apply to dwellings in the UK.

C17 Where a room has a shared use, the highest target should apply. For example in a bed sitting room in student accommodation, the value for a living room should be used if students would often spend time in their rooms during the day. Local authorities could use discretion here. For example, the target for a living room could be used for a combined living/dining/kitchen area if the kitchens are not treated as habitable spaces, as it may avoid small separate kitchens in a design. The kitchen space would still need to be included in the assessment area ... in rooms with a particular requirement for daylight, such as bed sitting rooms in homes for the elderly, higher values ... may be taken.

Analysis parameters are as per Annex B (and/or as revised by Annex NA), analysis method 1 was used. The following Parameters were used which are within the recommended ranges and reflect the materials/finishes specified in this application. The Median External Diffuse Illuminance used is noted in the relevant results tables.

Surface	Description	Reflectance
External Plane	Earth	0.2
External Walls	Grey Render / Concrete	0.4
Floor	Light wood/ cream Carpet	0.4
Internal Wall	Cream	0.7
Ceiling	White	0.8
Frames	Medium Grey	0.5
	Transmittance	
Glazing clear	0.63 (incls. Maintenance Factor)	
Glazing Translucent	0.4 (incls. Maintenance Factor)	

Light distribution was computed by modelling the internal configuration of rooms and windows placed within the existing topography and the adjacent buildings and then running an analysis on the same. This analysis was based on a standard working plane for in this case residential of 0.850m.

Reference plane or working plane

Horizontal, vertical, or inclined plane in which a visual task lies. Normally the working plane may be taken to be horizontal, 0.85 m above the floor in houses and factories, 0.7 m above the floor in offices.



Legend for Radiance Plots

In the radiances plots provided below we shall use the following demarcation of Lx results which is compatible with the target values from Annex NA



Assessment Areas

Where rooms have small annexed entrances or corridors they need not be included in the assessment grid area, (unless it is wide enough to be part of the usable space in a room, typically over 1.5m wide).

Fig C3 details what area may be excluded.

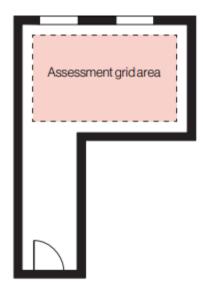


Figure C3: In a room with a corridor, or annexed entrance, the corridor need not be included in the assessment grid area (unless it is wide enough to be part of the usable space in a room, typically over 1.5m wide). The room layout and surfaces, including the corridor would still need to be included in the calculation model.

Fig C2 also notes that: Fixed floor to ceiling cupboards can be excluded from the room area, but not kitchen units incorporating a worktop. And also The BRE guidelines note the following in relation to the assessment grid.

The standard states that the assessment grid should exclude a band of 0.5m from the walls, unless otherwise specified. In dwellings it is recommended that a band of 0.3m should be excluded, to avoid excluding parts of the room that are used by the occupants. Professional judgement should be used in cases with irregular shaped spaces or rooms with corridor or annex areas.

Room referencing

- Rooms tested are referenced specifically for this report. •
- This referencing is used to identify rooms rather than apartments. •
- Numbering is generally sequential but may vary to keep similar room types on different floors • consistent.
- Graphics are provided on a floor-by-floor basis to show the referencing for this project. •
- Room numbers are coloured orange = Living/Kitchen/Dining room and Blue = Bedroom.
- Where Living and Kitchens are separated Green = Living room and yellow = Kitchens.

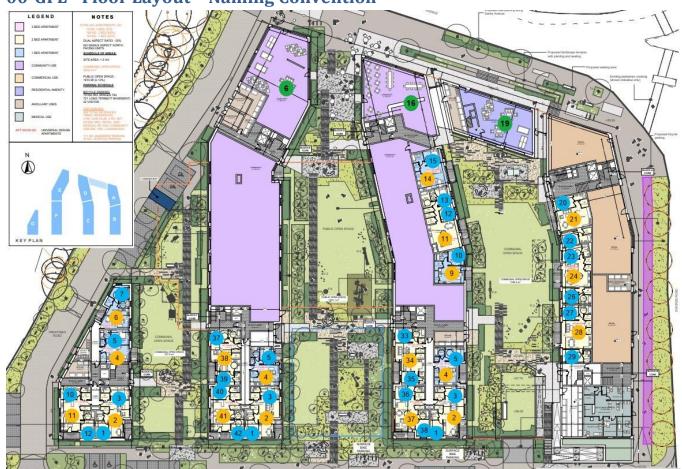
In the result tables the following referencing is used.

- Two-digit Floor reference 00=GFL, 01=1st Floor
- A single letter block reference
- Two-digit room reference (as per layout naming in the plans below Combined Living/Kitchen/Dining rooms have the suffix "c" added to the name This would also be the reference for a Studio apartment.

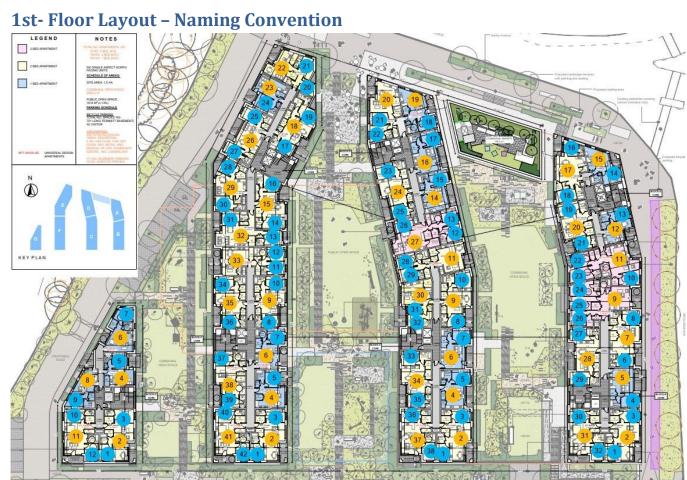
Typical Example of the naming, not specifically project related: 01AB02c = 1st Floor, Block AB, room 02 which is an LKD (Living/Kitchen/Dining room). 00AB20 = Ground Floor, Block A, room 20 which is a bedroom.



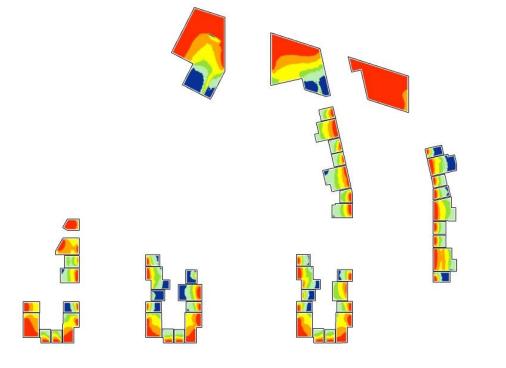
00-GFL - Floor Layout – Naming Convention

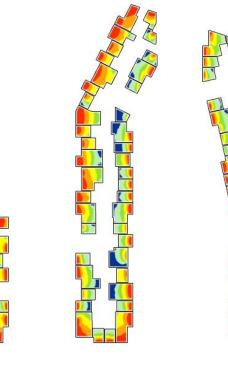


Radiance Plot



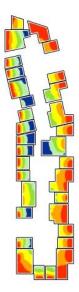
Radiance Plot





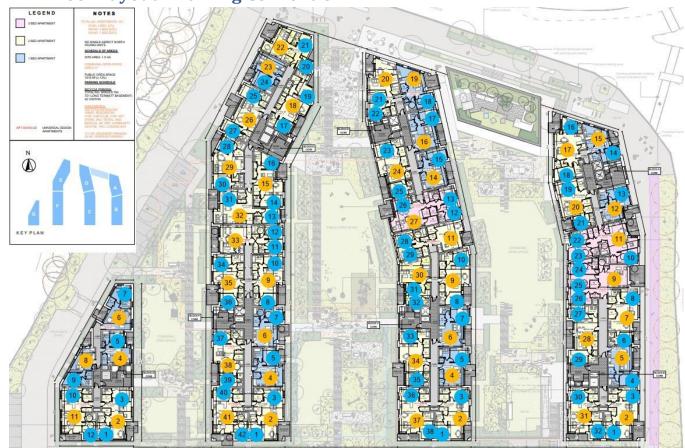
[Chris Shackleton Consulting]







2nd - Floor Layout - Naming Convention

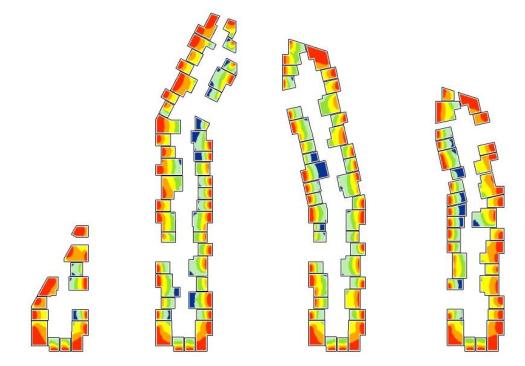


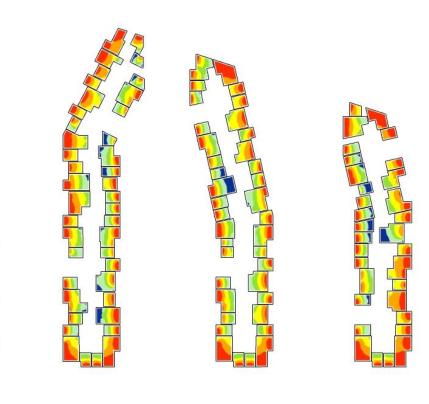
Radiance Plot





Radiance Plot







4th - Floor Layout - Naming Convention

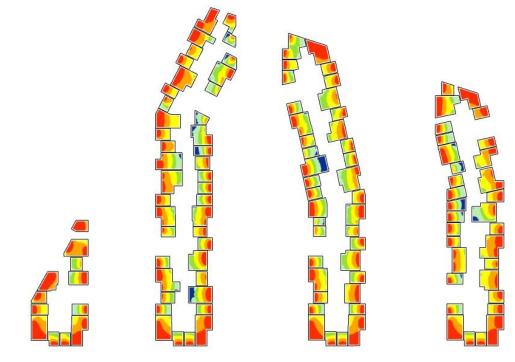


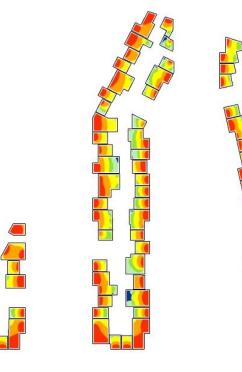
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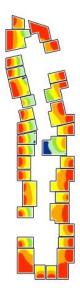
Radiance Plot





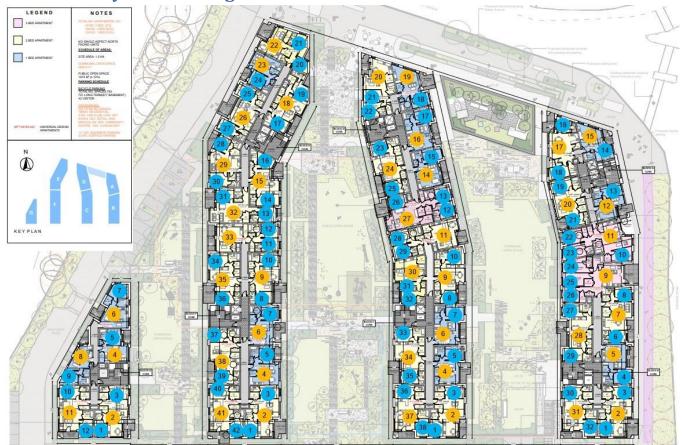
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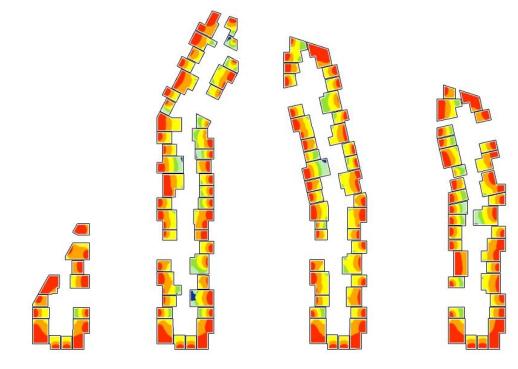




6th - Floor Layout - Naming Convention



Radiance Plot



7th - Floor Layout – Naming Convention



Radiance Plot







8th & 9th - Floor Layout - Naming Convention



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10th & 11th - Floor Layout - Naming Convention



Radiance Plot

Radiance Plot







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01AB08 Bedroom 100 100 Pass 01AB09c Living/Kitchen 27 200 Fail 01AB10 Bedroom 100 100 Pass 01AB11c Living/Kitchen 82 200 Pass 01AB12c Living/Kitchen 64 200 Pass 01AB13 Bedroom 100 100 Pass 01AB14 Bedroom 100 100 Pass 01AB15c Living/Kitchen 100 100 Pass 01AB16 Bedroom 100 100 Pass 01AB15c Living/Kitchen 54 200 Pass 01AB17c Living/Kitchen 54 200 Pass 01AB18 Bedroom 75 100 Pass 01AB19 Bedroom 75 100 Pass 01AB20c Living/Kitchen 41 200 Marginal 01AB21 Bedroom 51 100 Pass	01AB07c	Living/Kitchen	96	200	Pass
01AB10 Bedroom 100 100 Pass 01AB11c Living/Kitchen 82 200 Pass 01AB12c Living/Kitchen 64 200 Pass 01AB12c Living/Kitchen 64 200 Pass 01AB13 Bedroom 100 100 Pass 01AB14 Bedroom 100 100 Pass 01AB15c Living/Kitchen 100 200 Pass 01AB16 Bedroom 100 100 Pass 01AB17c Living/Kitchen 54 200 Pass 01AB18 Bedroom 75 100 Pass 01AB19 Bedroom 75 100 Pass 01AB20c Living/Kitchen 41 200 Marginal 01AB21 Bedroom 22 100 Fail 01AB23 Bedroom 69 100 Pass 01AB24 Bedroom 65 100 Pass 0	01AB08	_	100	100	Pass
01AB10 Bedroom 100 100 Pass 01AB11c Living/Kitchen 82 200 Pass 01AB12c Living/Kitchen 64 200 Pass 01AB12c Living/Kitchen 64 200 Pass 01AB13 Bedroom 100 100 Pass 01AB14 Bedroom 100 100 Pass 01AB15c Living/Kitchen 100 200 Pass 01AB16 Bedroom 100 100 Pass 01AB17c Living/Kitchen 54 200 Pass 01AB18 Bedroom 75 100 Pass 01AB19 Bedroom 75 100 Pass 01AB20c Living/Kitchen 41 200 Marginal 01AB21 Bedroom 22 100 Fail 01AB23 Bedroom 69 100 Pass 01AB24 Bedroom 65 100 Pass 0	01AB09c	Living/Kitchen	27	200	Fail
01AB12c Living/Kitchen 64 200 Pass 01AB13 Bedroom 100 100 Pass 01AB14 Bedroom 100 100 Pass 01AB15c Living/Kitchen 100 200 Pass 01AB15c Living/Kitchen 100 100 Pass 01AB16 Bedroom 100 100 Pass 01AB17c Living/Kitchen 54 200 Pass 01AB18 Bedroom 81 100 Pass 01AB19 Bedroom 75 100 Pass 01AB20c Living/Kitchen 41 200 Marginal 01AB21 Bedroom 22 100 Fail 01AB22 Bedroom 69 100 Pass 01AB23 Bedroom 51 100 Pass 01AB24 Bedroom 65 100 Pass 01AB25 Bedroom 98 100 Pass 01AB26 <td>01AB10</td> <td>_</td> <td>100</td> <td>100</td> <td>Pass</td>	01AB10	_	100	100	Pass
01AB12c Living/Kitchen 64 200 Pass 01AB13 Bedroom 100 100 Pass 01AB14 Bedroom 100 100 Pass 01AB15c Living/Kitchen 100 200 Pass 01AB15c Living/Kitchen 100 100 Pass 01AB16 Bedroom 100 100 Pass 01AB17c Living/Kitchen 54 200 Pass 01AB18 Bedroom 81 100 Pass 01AB19 Bedroom 75 100 Pass 01AB20c Living/Kitchen 41 200 Marginal 01AB21 Bedroom 22 100 Fail 01AB22 Bedroom 69 100 Pass 01AB23 Bedroom 51 100 Pass 01AB24 Bedroom 65 100 Pass 01AB25 Bedroom 98 100 Pass 01AB26 <td>01AB11c</td> <td>Living/Kitchen</td> <td>82</td> <td>200</td> <td>Pass</td>	01AB11c	Living/Kitchen	82	200	Pass
01AB13 Bedroom 100 100 Pass 01AB14 Bedroom 100 100 Pass 01AB15c Living/Kitchen 100 200 Pass 01AB16 Bedroom 100 100 Pass 01AB16 Bedroom 100 100 Pass 01AB17c Living/Kitchen 54 200 Pass 01AB17c Living/Kitchen 54 200 Pass 01AB18 Bedroom 81 100 Pass 01AB19 Bedroom 75 100 Pass 01AB20c Living/Kitchen 41 200 Marginal 01AB21 Bedroom 22 100 Fail 01AB23 Bedroom 100 100 Pass 01AB24 Bedroom 65 100 Pass 01AB25 Bedroom 100 100 Pass 01AB26 Bedroom 98 100 Pass 01AB27	01AB12c	-	64	200	Pass
01AB15c Living/Kitchen 100 200 Pass 01AB16 Bedroom 100 100 Pass 01AB17c Living/Kitchen 54 200 Pass 01AB17c Living/Kitchen 54 200 Pass 01AB18 Bedroom 81 100 Pass 01AB19 Bedroom 75 100 Pass 01AB20c Living/Kitchen 41 200 Marginal 01AB21 Bedroom 22 100 Fail 01AB22 Bedroom 100 100 Pass 01AB23 Bedroom 69 100 Pass 01AB24 Bedroom 51 100 Pass 01AB25 Bedroom 65 100 Pass 01AB26 Bedroom 100 100 Pass 01AB26 Bedroom 98 100 Pass 01AB27 Bedroom 98 100 Pass 01AB29	01AB13	_	100	100	Pass
01AB16Bedroom100100Pass01AB17cLiving/Kitchen54200Pass01AB18Bedroom81100Pass01AB19Bedroom75100Pass01AB20cLiving/Kitchen41200Marginal01AB21Bedroom22100Fail01AB22Bedroom100100Pass01AB23Bedroom69100Pass01AB24Bedroom51100Pass01AB25Bedroom65100Pass01AB26Bedroom100100Pass01AB27Bedroom98100Pass01AB28Living/Kitchen49200Marginal01AB29Bedroom59100Pass01AB20Living/Kitchen93200Pass	01AB14	Bedroom	100	100	Pass
01AB16Bedroom100100Pass01AB17cLiving/Kitchen54200Pass01AB18Bedroom81100Pass01AB19Bedroom75100Pass01AB20cLiving/Kitchen41200Marginal01AB21Bedroom22100Fail01AB22Bedroom100100Pass01AB23Bedroom69100Pass01AB24Bedroom51100Pass01AB25Bedroom65100Pass01AB26Bedroom100100Pass01AB27Bedroom98100Pass01AB28Living/Kitchen49200Marginal01AB29Bedroom59100Pass01AB20Living/Kitchen93200Pass	01AB15c	Living/Kitchen	100	200	Pass
01AB18 Bedroom 81 100 Pass 01AB19 Bedroom 75 100 Pass 01AB20c Living/Kitchen 41 200 Marginal 01AB21 Bedroom 22 100 Fail 01AB22 Bedroom 22 100 Fail 01AB23 Bedroom 69 100 Pass 01AB24 Bedroom 69 100 Pass 01AB25 Bedroom 65 100 Pass 01AB26 Bedroom 100 100 Pass 01AB26 Bedroom 65 100 Pass 01AB26 Bedroom 100 100 Pass 01AB27 Bedroom 98 100 Pass 01AB28c Living/Kitchen 49 200 Marginal 01AB29 Bedroom 59 100 Pass 01AB30 Bedroom 82 100 Pass 01AB31c Living/	01AB16	Bedroom	100	100	Pass
01AB19Bedroom75100Pass01AB20cLiving/Kitchen41200Marginal01AB21Bedroom22100Fail01AB21Bedroom100100Pass01AB22Bedroom69100Pass01AB23Bedroom69100Pass01AB24Bedroom51100Pass01AB25Bedroom65100Pass01AB26Bedroom100100Pass01AB27Bedroom98100Pass01AB28cLiving/Kitchen49200Marginal01AB29Bedroom59100Pass01AB30Bedroom82100Pass01AB31cLiving/Kitchen93200Pass	01AB17c	Living/Kitchen	54	200	Pass
01AB20cLiving/Kitchen41200Marginal01AB21Bedroom22100Fail01AB22Bedroom100100Pass01AB23Bedroom69100Pass01AB24Bedroom51100Pass01AB25Bedroom65100Pass01AB26Bedroom100100Pass01AB27Bedroom98100Pass01AB28cLiving/Kitchen49200Marginal01AB29Bedroom59100Pass01AB30Bedroom82100Pass01AB31cLiving/Kitchen93200Pass	01AB18	Bedroom	81	100	Pass
01AB21 Bedroom 22 100 Fail 01AB22 Bedroom 100 100 Pass 01AB23 Bedroom 69 100 Pass 01AB24 Bedroom 51 100 Pass 01AB25 Bedroom 65 100 Pass 01AB26 Bedroom 65 100 Pass 01AB26 Bedroom 100 100 Pass 01AB26 Bedroom 98 100 Pass 01AB27 Bedroom 98 100 Pass 01AB28 Living/Kitchen 49 200 Marginal 01AB29 Bedroom 59 100 Pass 01AB30 Bedroom 82 100 Pass 01AB31c Living/Kitchen 93 200 Pass	01AB19	Bedroom	75	100	Pass
01AB22 Bedroom 100 100 Pass 01AB23 Bedroom 69 100 Pass 01AB24 Bedroom 51 100 Pass 01AB25 Bedroom 65 100 Pass 01AB26 Bedroom 100 100 Pass 01AB26 Bedroom 100 100 Pass 01AB27 Bedroom 98 100 Pass 01AB28 Living/Kitchen 49 200 Marginal 01AB29 Bedroom 59 100 Pass 01AB30 Bedroom 82 100 Pass 01AB31c Living/Kitchen 93 200 Pass	01AB20c	Living/Kitchen	41	200	Marginal
01AB23 Bedroom 69 100 Pass 01AB24 Bedroom 51 100 Pass 01AB25 Bedroom 65 100 Pass 01AB26 Bedroom 100 100 Pass 01AB26 Bedroom 100 100 Pass 01AB27 Bedroom 98 100 Pass 01AB28c Living/Kitchen 49 200 Marginal 01AB29 Bedroom 59 100 Pass 01AB30 Bedroom 82 100 Pass 01AB31c Living/Kitchen 93 200 Pass	01AB21	Bedroom	22	100	Fail
01AB24 Bedroom 51 100 Pass 01AB25 Bedroom 65 100 Pass 01AB26 Bedroom 100 100 Pass 01AB26 Bedroom 100 100 Pass 01AB27 Bedroom 98 100 Pass 01AB27 Bedroom 98 100 Pass 01AB28c Living/Kitchen 49 200 Marginal 01AB29 Bedroom 59 100 Pass 01AB30 Bedroom 82 100 Pass 01AB31c Living/Kitchen 93 200 Pass	01AB22	Bedroom	100	100	Pass
01AB25 Bedroom 65 100 Pass 01AB26 Bedroom 100 100 Pass 01AB27 Bedroom 98 100 Pass 01AB27 Bedroom 98 100 Pass 01AB28 Living/Kitchen 49 200 Marginal 01AB29 Bedroom 59 100 Pass 01AB30 Bedroom 82 100 Pass 01AB31c Living/Kitchen 93 200 Pass	01AB23	Bedroom	69	100	Pass
01AB26 Bedroom 100 100 Pass 01AB27 Bedroom 98 100 Pass 01AB27 Living/Kitchen 49 200 Marginal 01AB28 Living/Kitchen 49 200 Pass 01AB29 Bedroom 59 100 Pass 01AB30 Bedroom 82 100 Pass 01AB31c Living/Kitchen 93 200 Pass	01AB24	Bedroom	51	100	Pass
01AB27Bedroom98100Pass01AB28cLiving/Kitchen49200Marginal01AB29Bedroom59100Pass01AB30Bedroom82100Pass01AB31cLiving/Kitchen93200Pass	01AB25	Bedroom	65	100	Pass
01AB28cLiving/Kitchen49200Marginal01AB29Bedroom59100Pass01AB30Bedroom82100Pass01AB31cLiving/Kitchen93200Pass	01AB26	Bedroom	100	100	Pass
01AB29 Bedroom 59 100 Pass 01AB30 Bedroom 82 100 Pass 01AB31c Living/Kitchen 93 200 Pass	01AB27	Bedroom	98	100	Pass
01AB30 Bedroom 82 100 Pass 01AB31c Living/Kitchen 93 200 Pass	01AB28c	-	49	200	Marginal
01AB31c Living/Kitchen 93 200 Pass	01AB29	Bedroom	59	100	Pass
	01AB30	Bedroom	82	100	Pass
01AP22 Rodroom 100 100 Pose	01AB31c	Living/Kitchen	93	200	Pass
OTAD32 DEGLOUIII 100 100 Pass	01AB32	Bedroom	100	100	Pass

>50 %	6 of the points o	n a refer
AB-v1	Туре	
Ref	Туре	Percent withi Target
02AB01	Bedroom	100
02AB01	Living/Kitchen	100
02AB02C	Bedroom	100
02AB03	Bedroom	100
02AB04 02AB05c		
	Living/Kitchen	97
02AB06	Bedroom	100
02AB07c	Living/Kitchen	95
02AB08	Bedroom	100
02AB09c	Living/Kitchen	46
02AB10	Bedroom	100
02AB11c	Living/Kitchen	89
02AB12c	Living/Kitchen	93
02AB13	Bedroom	100
02AB14	Bedroom	100
02AB15c	Living/Kitchen	100
02AB16	Bedroom	100
02AB17c	Living/Kitchen	73
02AB18	Bedroom	98
02AB19	Bedroom	80
02AB20c	Living/Kitchen	53
02AB21	Bedroom	31
02AB22	Bedroom	100
02AB23	Bedroom	71
02AB24	Bedroom	57
02AB25	Bedroom	72
02AB26	Bedroom	100
02AB27	Bedroom	100
02AB28c	Living/Kitchen	57
02AB29	Bedroom	68
02AB20	Bedroom	89
02AB31c	Living/Kitchen	96
02AB32	Bedroom	100
03AB01	Bedroom	100
03AB01 03AB02c	Living/Kitchen	100
	Bedroom	
03AB03	Bedroom	100
03AB04		100
03AB05c	Living/Kitchen	99
03AB06	Bedroom	100
03AB07c	Living/Kitchen	96
03AB08	Bedroom	100
03AB09c 03AB10	Living/Kitchen Bedroom	29 100

	nt provi				
For all habitable rooms					
	14,900	lx			
e	plane to ex	ceed			
	BS/EN17037				
	Annex AN				
	Target Lux	Check			
	100	Pass			
	200	Pass			
	100	Pass			
	100	Pass			
	200	Pass			
	100	Pass			
	200	Pass			
	100	Pass			
	200	Marginal			
	100	Pass			
	200	Pass			
	200	Pass			
	100	Pass			
	100	Pass			
	200	Pass			
	100	Pass			
	200	Pass			
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	200	Pass			
	100	Pass			
	100	Pass			
	200	Pass			
	100	Pass			
	200	Pass			
	100	Pass			
	200	Fail			
	100	Pass			

For all habitable rooms				
Median Ex	ternal Diffuse II	luminance	14,900	lx
>50 % of the points on a reference plane to exceed				
AB-v1	Туре			
Ref	Туре	Percentage within Target Lux	BS/EN17037 Annex AN Target Lux	Check
03AB11c	Living/Kitchen	79	200	Pass
03AB12c	Living/Kitchen	67	200	Pass
03AB13	Bedroom	100	100	Pass
03AB14	Bedroom	100	100	Pass
03AB15c	Living/Kitchen	100	200	Pass
03AB16	Bedroom	100	100	Pass
03AB17c	Living/Kitchen	73	200	Pass
03AB18	Bedroom	100	100	Pass
03AB19	Bedroom	87	100	Pass
03AB20c	Living/Kitchen	61	200	Pass
03AB21	Bedroom	38	100	Fail
03AB22	Bedroom	100	100	Pass
03AB23	Bedroom	83	100	Pass
03AB24	Bedroom	64	100	Pass
03AB25	Bedroom	80	100	Pass
03AB26	Bedroom	100	100	Pass
03AB27	Bedroom	100	100	Pass
03AB28c	Living/Kitchen	57	200	Pass
03AB29	Bedroom	79	100	Pass
03AB30	Bedroom	98	100	Pass
03AB31c	Living/Kitchen	98	200	Pass
03AB32	Bedroom	100	100	Pass
04AB01	Bedroom	100	100	Pass
04AB02c	Living/Kitchen	100	200	Pass
04AB03	Bedroom	100	100	Pass
04AB04	Bedroom	100	100	Pass
04AB05c	Living/Kitchen	99	200	Pass
04AB06	Bedroom	100	100	Pass
04AB07c	Living/Kitchen	97	200	Pass
04AB08	Bedroom	100	100	Pass
04AB09c	Living/Kitchen	47	200	Marginal
04AB10	Bedroom	100	100	Pass
04AB11c	Living/Kitchen	91	200	Pass
04AB12c	Living/Kitchen	89	200	Pass
04AB13	Bedroom	100	100	Pass
04AB14	Bedroom	100	100	Pass
04AB15c	Living/Kitchen	100	200	Pass
04AB16	Bedroom	100	100	Pass
04AB17c	Living/Kitchen	77	200	Pass
04AB18	Bedroom	100	100	Pass
04AB19	Bedroom	100	100	Pass
04AB20c	Living/Kitchen	72	200	Pass

NA.2 Minimum daylight provision

			For all hab	itable roo
Median E	xternal Diffuse Il	luminance	14,900	lx
>50 %	6 of the points o	n a reference	e plane to ex	ceed
AB-v1	Туре			
		Percentage within	BS/EN17037 Annex AN	
Ref	Туре	Target Lux	Target Lux	Check
04AB21	Bedroom	68	100	Pass
04AB22	Bedroom	100	100	Pass
04AB23	Bedroom	100	100	Pass
04AB24	Bedroom	71	100	Pass
04AB25	Bedroom	93	100	Pass
04AB26	Bedroom	100	100	Pass
04AB27	Bedroom	100	100	Pass
04AB28c	Living/Kitchen	95	200	Pass
04AB29	Bedroom	94	100	Pass
04AB30	Bedroom	100	100	Pass
04AB31c	Living/Kitchen	99	200	Pass
04AB32	Bedroom	100	100	Pass
05AB01	Bedroom	100	100	Pass
05AB02c	Living/Kitchen	100	200	Pass
05AB03	Bedroom	100	100	Pass
05AB04	Bedroom	100	100	Pass
05AB05c	Living/Kitchen	99	200	Pass
05AB06	Bedroom	100	100	Pass
05AB07c	Living/Kitchen	100	200	Pass
05AB08	Bedroom	100	100	Pass
05AB09c	Living/Kitchen	31	200	Fail
05AB10	Bedroom	100	100	Pass
05AB11c	Living/Kitchen	98	200	Pass
05AB12c	Living/Kitchen	74	200	Pass
05AB13	Bedroom	100	100	Pass
05AB14	Bedroom	100	100	Pass
05AB15c	Living/Kitchen	100	200	Pass
05AB16	Bedroom	100	100	Pass
05AB17c	Living/Kitchen	79	200	Pass
05AB18	Bedroom	100	100	Pass
05AB19	Bedroom	100	100	Pass
05AB20c	Living/Kitchen	85	200	Pass
05AB21	Bedroom	98	100	Pass
05AB22	Bedroom	100	100	Pass
05AB23	Bedroom	100	100	Pass
05AB24	Bedroom	93	100	Pass
05AB25	Bedroom	100	100	Pass
05AB26	Bedroom	100	100	Pass
05AB27	Bedroom	100	100	Pass
05AB28c	Living/Kitchen	98	200	Pass
05AB29	Bedroom	100	100	Pass
05AB30	Bedroom	100	100	Pass
05AB31c	Living/Kitchen	100	200	Pass
05AB310	Bedroom	100	100	Pass

For all habitable rooms					
Median Ex	ternal Diffuse II	luminance	14,900	lx	
>50 %	>50 % of the points on a reference plane to exceed				
AB-v1	Туре				
Ref	Туре	Percentage within Target Lux	BS/EN17037 Annex AN Target Lux	Check	
06AB01	Bedroom	100	100	Pass	
06AB02c	Living/Kitchen	100	200	Pass	
06AB03	Bedroom	100	100	Pass	
06AB04	Bedroom	100	100	Pass	
06AB05c	Living/Kitchen	99	200	Pass	
06AB06	Bedroom	100	100	Pass	
06AB07c	Living/Kitchen	98	200	Pass	
06AB08	Bedroom	100	100	Pass	
06AB09c	Living/Kitchen	65	200	Pass	
06AB10	Bedroom	100	100	Pass	
06AB11c	Living/Kitchen	96	200	Pass	
06AB12c	Living/Kitchen	99	200	Pass	
06AB13	Bedroom	100	100	Pass	
06AB14	Bedroom	100	100	Pass	
06AB15c	Living/Kitchen	100	200	Pass	
06AB16	Bedroom	100	100	Pass	
06AB17c	Living/Kitchen	87	200	Pass	
06AB18	Bedroom	100	100	Pass	
06AB19	Bedroom	100	100	Pass	
06AB20c	Living/Kitchen	95	200	Pass	
06AB21	Bedroom	100	100	Pass	
06AB22	Bedroom	100	100	Pass	
06AB23	Bedroom	100	100	Pass	
06AB24	Bedroom	98	100	Pass	
06AB25	Bedroom	100	100	Pass	
06AB26	Bedroom	100	100	Pass	
06AB27	Bedroom	100	100	Pass	
06AB28c	Living/Kitchen	100	200	Pass	
06AB29	Bedroom	100	100	Pass	
06AB30	Bedroom	100	100	Pass	
06AB31c	Living/Kitchen	100	200	Pass	
06AB32	Bedroom	100	100	Pass	
07AB12c	Living/Kitchen	100	200	Pass	
07AB13	Bedroom	100	100	Pass	
07AB14	Bedroom	100	100	Pass	
07AB15c	Living/Kitchen	100	200	Pass	
07AB16	Bedroom	100	100	Pass	
07AB17c	Living/Kitchen	89	200	Pass	
07AB18	Bedroom	100	100	Pass	
07AB19	Bedroom	100	100	Pass	
07AB20c	Living/Kitchen	99	200	Pass	
07AB21	Bedroom	100	100	Pass	

NA.2 Minimum daylight

	6 of the points o	
AB-v1	Туре	
		Percen
		with
Ref	Туре	Target
08AB12c	Living/Kitchen	100
08AB13	Bedroom	100
08AB14	Bedroom	100
08AB15c	Living/Kitchen	100
08AB16	Bedroom	100
08AB17c	Living/Kitchen	94
08AB18	Bedroom	100
08AB19	Bedroom	100
08AB20c	Living/Kitchen	100
08AB21	Bedroom	100
09AB12c	Living/Kitchen	100
09AB13	Bedroom	100
09AB14	Bedroom	100
09AB15c	Living/Kitchen	100
09AB16	Bedroom	100
09AB17c	Living/Kitchen	99
09AB18	Bedroom	100
09AB19	Bedroom	100
09AB20c	Living/Kitchen	100
09AB21	Bedroom	100
10AB12c	Living/Kitchen	100
10AB13	Bedroom	100
10AB14	Bedroom	100
10AB15c	Living/Kitchen	100
10AB16	Bedroom	100
10AB17c	Living/Kitchen	100
10AB18	Bedroom	100
10AB19	Bedroom	100
10AB20c	Living/Kitchen	100
10AB21	Bedroom	100
11AB12c	Living/Kitchen	100
11AB13	Bedroom	100
11AB14	Bedroom	100
11AB15c	Living/Kitchen	100
11AB16	Bedroom	100
11AB17c	Living/Kitchen	100
11AB18	Bedroom	100
11AB19	Bedroom	100
11AB20c	Living/Kitchen	100
11AB200	Bedroom	100

Summary AB: 95% compliant or 98% if we include marginal results.

ght provision					
For all habitable rooms					
	14,900	lx			
Ce	e plane to ex	ceed			
е	BS/EN17037				
	Annex AN				
(Target Lux	Check			
	200	Pass			
	100	Pass			
	100	Pass			
	200	Pass			
	100	Pass			
	200	Pass			
	100	Pass			
	100	Pass			
	200	Pass			
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	100	Pass			
	200	Pass			
	100	Pass			
	200	Pass			
	100	Pass			
	100	Pass			
	200	Pass			
	100	Pass			

For all habitable rooms				
Median Ex	ternal Diffuse II	luminance	14,900	lx
>50 %	of the points o	n a reference	plane to ex	ceed
CD-v1	Туре			
		Percentage	BS/EN17037	
Ref	Туре	within Target Lux	Annex AN Target Lux	Check
01CD01	Bedroom	100	100	Pass
01CD02c	Living/Kitchen	98	200	Pass
01CD03	Bedroom	100	100	Pass
01CD04c	Living/Kitchen	54	200	Pass
01CD05	Bedroom	78	100	Pass
01CD09c	Living/Kitchen	43	200	Marginal
01CD10	Bedroom	100	100	Pass
01CD11c	Living/Kitchen	46	200	Marginal
01CD12	Bedroom	100	100	Pass
01CD13	Bedroom	95	100	Pass
01CD14c	Living/Kitchen	69	200	Pass
01CD15	Bedroom	100	100	Pass
01CD16l	Living	79	150	Pass
01CD33	Bedroom	84	100	Pass
01CD34c	Living/Kitchen	47	200	Marginal
01CD35	Bedroom	50	100	Pass
01CD36	Bedroom	65	100	Pass
01CD37c	Living/Kitchen	92	200	Pass
01CD38	Bedroom	100	100	Pass
01CD01	Bedroom	100	100	Pass
01CD02c	Living/Kitchen	98	200	Pass
01CD03	Bedroom	100	100	Pass
01CD04c	Living/Kitchen	43	200	Marginal
01CD05	Bedroom	96	100	Pass
01CD06c	Living/Kitchen	28	200	Fail
01CD07	Bedroom	100	100	Pass
01CD08	Bedroom	95	100	Pass
01CD09c	Living/Kitchen	40	200	Marginal
01CD10	Bedroom	100	100	Pass
01CD11c	Living/Kitchen	41	200	Marginal
01CD12	Bedroom	96	100	Pass
01CD13	Bedroom	100	100	Pass
01CD14c	Living/Kitchen Bedroom	73	200	Pass
01CD15 01CD16c	Living/Kitchen	100 53	100	Pass
01CD16C	Bedroom	100	200	Pass Pass
01CD17 01CD18	Bedroom	100	100	Pass
01CD18	Living/Kitchen	100	200	Pass
01CD19C	Living/Kitchen	55	200	Pass
0100200	enting/ kitchen		200	F 033

Median External Diffuse Illuminance				
>50 % of the points on a reference				
CD-v1	Туре			
Ref	Туре	Percentage within Target Lux		
01CD21	Bedroom	100		
01CD21	Bedroom	92		
01CD23	Bedroom	85		
01CD24c	Living/Kitchen	37		
01CD25	Bedroom	100		
01CD26	Bedroom	42		
01CD27c	Living/Kitchen	26		
01CD28	Bedroom	79		
01CD29	Bedroom	91		
01CD30c	Living/Kitchen	45		
01CD31	Bedroom	66		
01CD32	Bedroom	97		
01CD33	Bedroom	100		
01CD34c	Living/Kitchen	43		
01CD35	Bedroom	100		
01CD36	Bedroom	97		
01CD37c	Living/Kitchen	96		
01CD38	Bedroom	100		
02CD01	Bedroom	100		
02CD02c	Living/Kitchen	100		
02CD03	Bedroom	100		
02CD04c	Living/Kitchen	91		
02CD05	Bedroom	100		
02CD06c	Living/Kitchen	37		
02CD07	Bedroom	100		
02CD08	Bedroom	100		
02CD09c	Living/Kitchen	50		
02CD10	Bedroom	100		
02CD11c	Living/Kitchen	40		
02CD12	Bedroom	98		
02CD13	Bedroom	100		
02CD14c	Living/Kitchen	76		
02CD15	Bedroom	100		
02CD16c	Living/Kitchen	46		
02CD17	Bedroom	100		
02CD18	Bedroom	100		
02CD19c	Living/Kitchen	100		
02CD20c	Living/Kitchen	53		

nt provision					
For all hat	oitable rooms				
14,900 Ix					
plane to ex					
plane to e					
BS/EN17037					
Annex AN	Charle				
Target Lux	Check				
100	Pass				
100	Pass				
100	Pass				
200	Fail				
100	Pass				
100	Marginal				
200	Fail				
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200	Marginal				
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200	Marginal				
100	Pass				
100	Pass				
200	Pass				
100	Pass				
200	Marginal				
100	Pass				
100	Pass				
200	Pass				
200	Pass				

For all habitable rooms						
Median External Diffuse Illuminance 14,900 Ix						
>50 %	>50 % of the points on a reference plane to exceed					
CD-v1	Туре					
		Percentage within	BS/EN17037 Annex AN			
Ref	Туре	Target Lux	Target Lux	Check		
02CD21	Bedroom	100	100	Pass		
02CD22	Bedroom	94	100	Pass		
02CD23	Bedroom	98	100	Pass		
02CD24c	Living/Kitchen	51	200	Pass		
02CD25	Bedroom	100	100	Pass		
02CD26	Bedroom	52	100	Pass		
02CD27c	Living/Kitchen	29	200	Fail		
02CD28	Bedroom	94	100	Pass		
02CD29	Bedroom	100	100	Pass		
02CD30c	Living/Kitchen	50	200	Pass		
02CD31	Bedroom	50	100	Pass		
02CD32	Bedroom	92	100	Pass		
02CD33	Bedroom	100	100	Pass		
02CD34c	Living/Kitchen	62	200	Pass		
02CD35	Bedroom	100	100	Pass		
02CD36	Bedroom	100	100	Pass		
02CD37c	Living/Kitchen	95	200	Pass		
02CD38	Bedroom	100	100	Pass		
03CD01	Bedroom	100	100	Pass		
03CD02c	Living/Kitchen	100	200	Pass		
03CD03	Bedroom	100	100	Pass		
03CD04c	Living/Kitchen	80	200	Pass		
03CD05	Bedroom	100	100	Pass		
03CD06c	Living/Kitchen	51	200	Pass		
03CD07	Bedroom	100	100	Pass		
03CD08	Bedroom	100	100	Pass		
03CD09c	Living/Kitchen	59	200	Pass		
03CD10	Bedroom	100	100	Pass		
03CD11c	Living/Kitchen	50	200	Pass		
03CD12	Bedroom	100	100	Pass		
03CD13	Bedroom	100	100	Pass		
03CD14c	Living/Kitchen	88	200	Pass		
03CD15	Bedroom	100	100	Pass		
03CD16c	Living/Kitchen	85	200	Pass		
03CD17	Bedroom	100	100	Pass		
03CD18	Bedroom	100	100	Pass		
03CD19c	Living/Kitchen	100	200	Pass		
03CD20c	Living/Kitchen	52	200	Pass		

Median External Diffuse Illuminance				
>50 % of the points on a reference				
CD-v1	Туре			
		Percentage		
		within		
Ref	Туре	Target Lux		
03CD21	Bedroom	100		
03CD22	Bedroom	100		
03CD23	Bedroom	100		
03CD24c	Living/Kitchen	58		
03CD25	Bedroom	100		
03CD26	Bedroom	66		
03CD27c	Living/Kitchen	33		
03CD28	Bedroom	100		
03CD29	Bedroom	100		
03CD30c	Living/Kitchen	61		
03CD31	Bedroom	100		
03CD32	Bedroom	100		
03CD33	Bedroom	100		
03CD34c	Living/Kitchen	66		
03CD35	Bedroom	100		
03CD36	Bedroom	100		
03CD37c	Living/Kitchen	98		
03CD38	Bedroom	100		
04CD01	Bedroom	100		
04CD02c	Living/Kitchen	100		
04CD03	Bedroom	100		
04CD04c	Living/Kitchen	98		
04CD05	Bedroom	100		
04CD06c	Living/Kitchen	66		
04CD07	Bedroom	100		
04CD08	Bedroom	100		
04CD09c	Living/Kitchen	69		
04CD10	Bedroom	100		
04CD11c	Living/Kitchen	60		
04CD12	Bedroom	100		
04CD13	Bedroom	100		
04CD14c	Living/Kitchen	85		
04CD15	Bedroom	100		
04CD16c	Living/Kitchen	58		
04CD17	Bedroom	100		
04CD18	Bedroom	100		
04CD19c	Living/Kitchen	100		
04CD20c	Living/Kitchen	50		

For all habitable rooms14,900Ixaplane to exceedBS/EN17037 Annex AN Target LuxCheckBS/EN17037 Annex AN Target LuxCheck100Pass	ht provision					
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	For all habitable rooms					
Median External Diffuse Illuminance 14,900 Ix						
>50 %	>50 % of the points on a reference plane to exceed					
CD-v1	Туре					
P _{1}		Percentage within	BS/EN17037 Annex AN	ch - ch		
Ref	Туре	Target Lux	Target Lux	Check		
04CD21	Bedroom	100	100	Pass		
04CD22	Bedroom	100	100	Pass		
04CD23	Bedroom	100	100	Pass		
04CD24c	Living/Kitchen	71	200	Pass		
04CD25	Bedroom	100	100	Pass		
04CD26	Bedroom	84	100	Pass		
04CD27c	Living/Kitchen	41	200	Marginal		
04CD28	Bedroom	100	100	Pass		
04CD29	Bedroom	100	100	Pass		
04CD30c	Living/Kitchen	70	200	Pass		
04CD31	Bedroom	83	100	Pass		
04CD32	Bedroom	100	100	Pass		
04CD33	Bedroom	100	100	Pass		
04CD34c	Living/Kitchen	88	200	Pass		
04CD35	Bedroom	100	100	Pass		
04CD36	Bedroom	100	100	Pass		
04CD37c	Living/Kitchen	99	200	Pass		
04CD38	Bedroom	100	100	Pass		
05CD01	Bedroom	100	100	Pass		
05CD02c	Living/Kitchen	100	200	Pass		
05CD03	Bedroom	100	100	Pass		
05CD04c	Living/Kitchen	98	200	Pass		
05CD05	Bedroom	100	100	Pass		
05CD06c	Living/Kitchen	82	200	Pass		
05CD07	Bedroom	100	100	Pass		
05CD08	Bedroom	100	100	Pass		
05CD09c	Living/Kitchen	95	200	Pass		
05CD10	Bedroom	100	100	Pass		
05CD11c	Living/Kitchen	73	200	Pass		
05CD12	Bedroom	100	100	Pass		
05CD13	Bedroom	100	100	Pass		
05CD14c	Living/Kitchen	98	200	Pass		
05CD15	Bedroom	100	100	Pass		
05CD16c	Living/Kitchen	88	200	Pass		
05CD17	Bedroom	100	100	Pass		
05CD18	Bedroom	100	100	Pass		
05CD19c	Living/Kitchen	100	200	Pass		
05CD20c	Living/Kitchen	78	200	Pass		

Median External Diffuse Illuminance				
>50 % of the points on a reference				
CD-v1	Туре			
		Percentage		
		within		
Ref	Туре	Target Lux		
05CD21	Bedroom	100		
05CD22	Bedroom	100		
05CD23	Bedroom	100		
05CD24c	Living/Kitchen	80		
05CD25	Bedroom	100		
05CD26	Bedroom	100		
05CD27c	Living/Kitchen	48		
05CD28	Bedroom	100		
05CD29	Bedroom	100		
05CD30c	Living/Kitchen	67		
05CD31	Bedroom	100		
05CD32	Bedroom	100		
05CD33	Bedroom	100		
05CD34c	Living/Kitchen	88		
05CD35	Bedroom	100		
05CD36	Bedroom	100		
05CD37c	Living/Kitchen	100		
05CD38	Bedroom	100		
06CD01	Bedroom	100		
06CD02c	Living/Kitchen	100		
06CD03	Bedroom	100		
06CD04c	Living/Kitchen	98		
06CD05	Bedroom	100		
06CD06c	Living/Kitchen	84		
06CD07	Bedroom	100		
06CD08	Bedroom	100		
06CD09c	Living/Kitchen	96		
06CD10	Bedroom	100		
06CD11c	Living/Kitchen	95		
06CD12	Bedroom	100		
06CD13	Bedroom	100		
06CD14c	Living/Kitchen	95		
06CD15	Bedroom	100		
06CD16c	Living/Kitchen	59		
06CD17	Bedroom	100		
06CD18	Bedroom	100		
06CD19c	Living/Kitchen	100		
06CD20c	Living/Kitchen	77		

ht provision						
• For all habitable rooms						
14,900	lx					
e plane to exceed						
BS/EN17037 Annex AN Target Lux Check						
100	Pass					
100	Pass					
100	Pass					
200	Pass					
100	Pass					
100	Pass					
200	Marginal					
100	Pass					
100	Pass					
200	Pass					
100	Pass					
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200	Pass					
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100	Pass					
200	Pass					
200	Pass					

	For all habitable rooms					
Median External Diffuse Illuminance 14,900 Ix						
>50 %	>50 % of the points on a reference plane to exceed					
CD-v1	Туре					
	Percentage BS/EN17037					
		within	Annex AN			
Ref	Туре	Target Lux	Target Lux	Check		
06CD21	Bedroom	100	100	Pass		
06CD22	Bedroom	100	100	Pass		
06CD23	Bedroom	100	100	Pass		
06CD24c	Living/Kitchen	96	200	Pass		
06CD25	Bedroom	100	100	Pass		
06CD26	Bedroom	100	100	Pass		
06CD27c	Living/Kitchen	54	200	Pass		
06CD28	Bedroom	100	100	Pass		
06CD29	Bedroom	100	100	Pass		
06CD30c	Living/Kitchen	96	200	Pass		
06CD31	Bedroom	100	100	Pass		
06CD32	Bedroom	100	100	Pass		
06CD33	Bedroom	100	100	Pass		
06CD34c	Living/Kitchen	96	200	Pass		
06CD35	Bedroom	100	100	Pass		
06CD36	Bedroom	100	100	Pass		
06CD37c	Living/Kitchen	100	200	Pass		
06CD38	Bedroom	100	100	Pass		
07CD12	Bedroom	100	100	Pass		
07CD13	Bedroom	100	100	Pass		
07CD14c	Living/Kitchen	89	200	Pass		
07CD15	Bedroom	100	100	Pass		
07CD16c	Living/Kitchen	72	200	Pass		
07CD17	Bedroom	100	100	Pass		
07CD18	Bedroom	100	100	Pass		
07CD19c	Living/Kitchen	100	200	Pass		
07CD20c	Living/Kitchen	95	200	Pass		
07CD21	Bedroom	100	100	Pass		
07CD22	Bedroom	100	100	Pass		
07CD23	Bedroom	100	100	Pass		
07CD24c	Living/Kitchen	96	200	Pass		
07CD25	Bedroom	100	100	Pass		
07CD26	Bedroom	100	100	Pass		
07CD27c	Living/Kitchen	97	200	Pass		

Summary CD: 93% compliant or 98% if we include marginal results.

>50 %	6 of the points o	n a refe
EF-v1	Туре	
		Percen
		with
Ref	Туре	Target
00EF01	Bedroom	10
00EF02c	Living/Kitchen	99
00EF03	Bedroom	94
00EF04c	Living/Kitchen	36
00EF05	Bedroom	32
00EF06I	Living	79
00EF37	Bedroom	83
00EF38c	Living/Kitchen	36
00EF39	Bedroom	22
00EF40	Bedroom	57
00EF41c	Living/Kitchen	88
00EF42	Bedroom	10
01EF01	Bedroom	10
01EF02c	Living/Kitchen	98
01EF03	Bedroom	10
01EF04c	Living/Kitchen	45
01EF05	Bedroom	10
01EF06c	Living/Kitchen	16
01EF07	Bedroom	10
01EF08	Bedroom	10
01EF09c	Living/Kitchen	37
01EF10	Bedroom	77
01EF11	Bedroom	10
01EF12	Bedroom	83
01EF13	Bedroom	10
01EF14	Bedroom	56
01EF15c	Living/Kitchen	26
01EF16	Bedroom	33
01EF17	Bedroom	77
01EF18c	Living/Kitchen	40
01EF19	Bedroom	74
01EF20	Bedroom	85
01EF21	Bedroom	10
01EF22c	Living/Kitchen	10
01EF23c	Living/Kitchen	83
01EF24	Bedroom	10
01EF25	Bedroom	10
01EF26c	Living/Kitchen	94
01EF27	Bedroom	10
01EF28	Bedroom	90
01EF29c	Living/Kitchen	76
01EF30	Bedroom	10

ght provision					
For all habitable rooms					
	14,900	lx			
	-				
nce	plane to ex	ceed			
ge	BS/EN17037				
	Annex AN				
x	Target Lux	Check			
	100	Pass			
	200	Pass			
	100	Pass			
	200	Fail			
	100	Fail			
	150	Pass			
	100	Pass			
	200	Fail			
	100	Fail			
	100	Pass			
	200	Pass			
	100	Pass			
	100	Pass			
	200	Pass			
	100	Pass			
	200	Marginal			
	100	Pass			
	200	Fail			
	100	Pass			
	100	Pass			
	200	Fail			
	100	Pass			
	100	Pass			
	100	Pass			
	100	Pass			
	100	Pass			
	200	Fail			
	100	Fail			
	100	Pass			
	200	Marginal			
	100	Pass			
	100	Pass			
	100	Pass			
	200	Pass			
	200	Pass			
	100	Pass			
	100	Pass			
	200	Pass			
	100	Pass			
	100	Pass			
	200	Pass			
	100	Pass			

For all habitable rooms						
Median External Diffuse Illuminance 14,900 Ix						
>50 %	>50 % of the points on a reference plane to exceed					
EF-v1	Туре					
		Percentage	BS/EN17037			
	-	within	Annex AN			
Ref	Туре	Target Lux	Target Lux	Check		
01EF31	Bedroom	100	100	Pass		
01EF32c	Living/Kitchen	52	200	Pass		
01EF33c	Living/Kitchen	76	200	Pass		
01EF34	Bedroom	100	100	Pass		
01EF35c	Living/Kitchen	58	200	Pass		
01EF36	Bedroom	89	100	Pass		
01EF37	Bedroom	100	100	Pass		
01EF38c	Living/Kitchen	50	200	Pass		
01EF39	Bedroom	100	100	Pass		
01EF40	Bedroom	73	100	Pass		
01EF41c	Living/Kitchen	82	200	Pass		
01EF42	Bedroom	100	100	Pass		
02EF01	Bedroom	100	100	Pass		
02EF02c	Living/Kitchen	99	200	Pass		
02EF03	Bedroom	100	100	Pass		
02EF04c	Living/Kitchen	46	200	Marginal		
02EF05	Bedroom	100	100	Pass		
02EF06c	Living/Kitchen	32	200	Fail		
02EF07	Bedroom	100	100	Pass		
02EF08	Bedroom	100	100	Pass		
02EF09c	Living/Kitchen	52	200	Pass		
02EF10	Bedroom	90	100	Pass		
02EF11	Bedroom	100	100	Pass		
02EF12	Bedroom	95	100	Pass		
02EF13	Bedroom	100	100	Pass		
02EF14	Bedroom	58	100	Pass		
02EF15c	Living/Kitchen	27	200	Fail		
02EF16	Bedroom	51	100	Pass		
02EF17	Bedroom	73	100	Pass		
02EF18c	Living/Kitchen	40	200	Marginal		
02EF19	Bedroom	73	100	Pass		
02EF20	Bedroom	85	100	Pass		
02EF21	Bedroom	100	100	Pass		
02EF22c	Living/Kitchen	100	200	Pass		
02EF23c	Living/Kitchen	85	200	Pass		
02EF24	Bedroom	100	100	Pass		
02EF25	Bedroom	100	100	Pass		
02EF26c	Living/Kitchen Bedroom	97	200	Pass		
02EF27		100	100	Pass		
02EF28	Bedroom Living/Kitchen	98 80	100	Pass		
02EF29c 02EF30	Bedroom	100	200 100	Pass Pass		
020730	beuroom	100	100	E g 22		

>50 %	6 of the points o	n a refere
EF-v1	Туре	
		Percenta within
Ref	Туре	Target L
02EF31	Bedroom	100
02EF32c	Living/Kitchen	57
02EF33c	Living/Kitchen	73
02EF34	Bedroom	100
02EF35c	Living/Kitchen	71
02EF36	Bedroom	100
02EF37	Bedroom	100
02EF38c	Living/Kitchen	46
02EF39	Bedroom	100
02EF40	Bedroom	77
02EF41c	Living/Kitchen	93
02EF42	Bedroom	100
03EF01	Bedroom	100
03EF02c	Living/Kitchen	99
03EF03	Bedroom	100
03EF04c	Living/Kitchen	52
03EF04C	Bedroom	100
03EF06c	Living/Kitchen	32
03EF00C	Bedroom	100
03EF08	Bedroom	100
03EF08	Living/Kitchen	57
03EF09C	Bedroom	100
	Bedroom	
03EF11		100
03EF12	Bedroom	100
03EF13	Bedroom	100
03EF14	Bedroom	71
03EF15c	Living/Kitchen	36
03EF16	Bedroom	54
03EF17	Bedroom	100
03EF18c	Living/Kitchen	61
03EF19	Bedroom	79
03EF20	Bedroom	72
03EF21	Bedroom	100
03EF22c	Living/Kitchen	100
03EF23c	Living/Kitchen	85
03EF24	Bedroom	100
03EF25	Bedroom	100
03EF26c	Living/Kitchen	90
03EF27	Bedroom	100
03EF28	Bedroom	98
03EF29c	Living/Kitchen	88
03EF30	Bedroom	100

For all habitable rooms14,900 xplane to exceedplane to exceedBS/EN17037Annex ANTarget LuxCheck100Pass200Pass200Pass200Pass100Pass200Pass100	nt provision				
plane to exceedBayEN17037 Annex AN Target LuxCheck100Pass200Pass200Pass200Pass200Pass200Pass200Pass100Pass200Pass200Pass100Pass200Marginal100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Fail100Pass <th colspan="5">-</th>	-				
plane to exceedBayEN17037 Annex AN Target LuxCheck100Pass200Pass200Pass200Pass200Pass200Pass200Pass100Pass200Pass200Pass100Pass200Marginal100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Fail100Pass <th>14.900</th> <th>lx</th>	14.900	lx			
BS/EN17037 Annex AN Target LuxCheck100Pass200Pass200Pass200Pass200Pass100Pass100Pass200Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass200Pass100Pass100Pass200Pass100Pass<	-				
Annex AN Target LuxCheck100Pass200Pass200Pass200Pass100	plane to ex	ceed			
Annex AN Target LuxCheck100Pass200Pass200Pass200Pass100					
Target LuxCheck100Pass200Pass200Pass200Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass100Pass200Pass100Pass	BS/EN17037				
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200Pass200Pass100Pass200Pass200Pass100Pass100Pass200Marginal100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass100Pass <th>Target Lux</th> <th>Check</th>	Target Lux	Check			
200Pass100Pass200Pass100Pass100Pass200Marginal100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass100Pass200Pass200Pass100Pass200Fail100Pass200Pass100Pass <th>100</th> <th>Pass</th>	100	Pass			
100 Pass 200 Pass 100 Pass 100 Pass 200 Marginal 100 Pass 200 Marginal 100 Pass 200 Pass 100 Pass 200 Pass 100 Pass 100 Pass 200 Pass 100 Pass 200 Pass 200 Pass 100 Pass 200 Pass 100 Pass	200	Pass			
200Pass100Pass100Pass200Marginal100Pass200Pass100Pass100Pass100Pass200Pass100Pass200Pass100Pass200Pass200Pass200Pass100Pass200Fail100Pass200Fail100Pass <td>200</td> <td>Pass</td>	200	Pass			
100Pass100Pass200Marginal100Pass100Pass200Pass100Pass100Pass100Pass100Pass200Pass100Pass200Pass100Pass200Pass200Pass100Pass200Fail100Pass200Fail100Pass <td>100</td> <td>Pass</td>	100	Pass			
100Pass200Marginal100Pass100Pass200Pass200Pass100Pass200Pass100Pass200Pass200Pass200Pass200Pass200Pass100Pass200Fail100Pass200Fail100Pass <td>200</td> <td>Pass</td>	200	Pass			
200Marginal100Pass100Pass200Pass100Pass100Pass100Pass200Pass200Pass200Pass200Pass100Pass200Pass100Pass200Fail100Pass200Fail100Pass <td>100</td> <td>Pass</td>	100	Pass			
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200 Pass	100	Pass			
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100 Pass	200	Pass			
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100 Pass	100	Pass			
200 Pass	200	Pass			
100 Pass	100	Pass			

	For all habitable room					
Median Ext	ornal Diffuse II	luminance	14,900			
	Median External Diffuse Illuminance 14,900 Ix					
>50 %	of the points o	on a reference	plane to ex	ceed		
EF-v1	Туре					
		Percentage	BS/EN17037			
		within	Annex AN			
Ref	Туре	Target Lux	Target Lux	Check		
03EF31	Bedroom	100	100	Pass		
03EF32c	Living/Kitchen	56	200	Pass		
03EF33c	Living/Kitchen	82	200	Pass		
03EF34	Bedroom	100	100	Pass		
03EF35c	Living/Kitchen	65	200	Pass		
03EF36	Bedroom	98	100	Pass		
03EF37	Bedroom	100	100	Pass		
03EF38c	Living/Kitchen	68	200	Pass		
03EF39	Bedroom	100	100	Pass		
03EF40	Bedroom	98	100	Pass		
03EF41c	Living/Kitchen	96	200	Pass		
03EF42	Bedroom	100	100	Pass		
04EF01	Bedroom	100	100	Pass		
04EF02c	Living/Kitchen	100	200	Pass		
04EF03	Bedroom	100	100	Pass		
04EF04c	Living/Kitchen	58	200	Pass		
04EF05	Bedroom	100	100	Pass		
04EF06c	Living/Kitchen	66	200	Pass		
04EF07	Bedroom	100	100	Pass		
04EF08	Bedroom	100	100	Pass		
04EF09c	Living/Kitchen	80	200	Pass		
04EF10	Bedroom	100	100	Pass		
04EF11	Bedroom	100	100	Pass		
04EF12	Bedroom	100	100	Pass		
04EF13	Bedroom	100	100	Pass		
04EF14	Bedroom	72	100	Pass		
04EF15c	Living/Kitchen	43	200	Marginal		
04EF16	Bedroom	78	100	Pass		
04EF17	Bedroom	100	100	Pass		
04EF18c	Living/Kitchen	55	200	Pass		
04EF19	Bedroom	86	100	Pass		
04EF20	Bedroom	73	100	Pass		
04EF21	Bedroom	100	100	Pass		
04EF22c	Living/Kitchen	100	200	Pass		
04EF23c	Living/Kitchen	85	200	Pass		
04EF24	Bedroom	100	100	Pass		
04EF25	Bedroom	100	100	Pass		
04EF26c	Living/Kitchen	98	200	Pass		
04EF27	Bedroom	100	100	Pass		
04EF28	Bedroom	100	100	Pass		
04EF29c	Living/Kitchen	97	200	Pass		
04EF30	Bedroom	100	100	Pass		

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RefType04EF31BedroomI04EF32cLiving/KitchenI04EF33cLiving/KitchenI04EF33cLiving/KitchenI04EF34BedroomI04EF35cLiving/KitchenI04EF37BedroomI04EF37BedroomI04EF37BedroomI04EF37BedroomI04EF37BedroomI04EF38Living/KitchenI04EF41Living/KitchenI04EF42BedroomI05EF01BedroomI05EF03BedroomI05EF04Living/KitchenI05EF05BedroomI05EF06Living/KitchenI05EF07BedroomI05EF08BedroomI05EF09Living/KitchenI05EF10BedroomI05EF11BedroomI05EF12BedroomI05EF13BedroomI05EF14BedroomI05EF15Living/KitchenI05EF16BedroomI05EF17BedroomI05EF18Living/KitchenI05EF19BedroomI05EF21BedroomI05EF22Living/KitchenI05EF23EedroomI05EF24BedroomI05EF25BedroomI	
04EF31BedroomI04EF32cLiving/KitchenI04EF33cLiving/KitchenI04EF33cLiving/KitchenI04EF35cLiving/KitchenI04EF37BedroomI04EF38cLiving/KitchenI04EF39BedroomI04EF30BedroomI04EF31BedroomI04EF32BedroomI04EF33EdroomI04EF41Living/KitchenI05EF01BedroomI05EF02Living/KitchenI05EF03BedroomI05EF04Living/KitchenI05EF05BedroomI05EF06Living/KitchenI05EF07BedroomI05EF08BedroomI05EF09Living/KitchenI05EF10BedroomI05EF11BedroomI05EF12BedroomI05EF13BedroomI05EF14BedroomI05EF15Living/KitchenI05EF18Living/KitchenI05EF18BedroomI05EF19BedroomI05EF18Living/KitchenI05EF20BedroomI05EF21BedroomI05EF22Living/KitchenI05EF23BedroomI05EF24BedroomI05EF25BedroomI	Percer
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05EF03Bedroom05EF04cLiving/Kitchen05EF05Bedroom05EF06cLiving/Kitchen05EF07Bedroom05EF08Bedroom05EF09cLiving/Kitchen05EF09cLiving/Kitchen05EF10Bedroom05EF11Bedroom05EF12Bedroom05EF13Bedroom05EF14Bedroom05EF15cLiving/Kitchen05EF16Bedroom05EF17Bedroom05EF18cLiving/Kitchen05EF19Bedroom05EF19Bedroom05EF20Bedroom05EF21Bedroom05EF22cLiving/Kitchen05EF23cLiving/Kitchen05EF24Bedroom05EF25Bedroom	10
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05EF05Bedroom05EF06cLiving/Kitchen05EF07Bedroom05EF08Bedroom05EF09cLiving/Kitchen05EF10Bedroom05EF11Bedroom05EF12Bedroom05EF13Bedroom05EF14Bedroom05EF15cLiving/Kitchen05EF16Bedroom05EF17Bedroom05EF18Living/Kitchen05EF19Bedroom05EF19Bedroom05EF19Bedroom05EF20Bedroom05EF21Bedroom05EF22cLiving/Kitchen05EF23cLiving/Kitchen05EF24Bedroom05EF25Bedroom	10
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05EF07Bedroom05EF08Bedroom005EF09cLiving/Kitchen005EF09cBedroom005EF10Bedroom005EF11Bedroom005EF12Bedroom005EF13Bedroom005EF14Bedroom005EF15cLiving/Kitchen005EF16Bedroom005EF17Bedroom005EF18cLiving/Kitchen005EF19Bedroom005EF20Bedroom005EF21Bedroom005EF23cLiving/Kitchen005EF24Bedroom005EF25Bedroom0	10
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05EF09cLiving/Kitchen05EF10Bedroom005EF11Bedroom005EF12Bedroom005EF13Bedroom005EF14Bedroom005EF15cLiving/Kitchen005EF16Bedroom005EF17Bedroom005EF18cLiving/Kitchen005EF19Bedroom005EF20Bedroom005EF21Bedroom005EF23cLiving/Kitchen005EF24Bedroom005EF25Bedroom0	10
05EF10Bedroom05EF11Bedroom05EF12Bedroom05EF13Bedroom05EF14Bedroom05EF15cLiving/Kitchen05EF16Bedroom05EF17Bedroom05EF18cLiving/Kitchen05EF19Bedroom05EF20Bedroom05EF21Bedroom05EF22cLiving/Kitchen05EF23cLiving/Kitchen05EF24Bedroom05EF25Bedroom	10
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05EF12Bedroom05EF13Bedroom05EF13Bedroom05EF14Bedroom05EF15cLiving/Kitchen05EF16Bedroom05EF17Bedroom05EF18cLiving/Kitchen05EF19Bedroom05EF20Bedroom05EF21Bedroom05EF22cLiving/Kitchen05EF23cLiving/Kitchen05EF24Bedroom05EF25Bedroom	10
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05EF15c Living/Kitchen 05EF16 Bedroom 05EF17 Bedroom 05EF18c Living/Kitchen 05EF19 Bedroom 05EF20 Bedroom 05EF21 Bedroom 05EF22c Living/Kitchen 05EF23c Living/Kitchen 05EF23c Bedroom 05EF24 Bedroom	10
05EF16Bedroom05EF17Bedroom05EF18cLiving/Kitchen05EF19Bedroom05EF20Bedroom05EF21Bedroom05EF22cLiving/Kitchen05EF23cLiving/Kitchen05EF24Bedroom05EF25Bedroom	96
05EF17Bedroom05EF18cLiving/Kitchen05EF19Bedroom05EF20Bedroom05EF21Bedroom05EF22cLiving/Kitchen05EF23cLiving/Kitchen05EF24Bedroom05EF25Bedroom	58
05EF18cLiving/Kitchen05EF19Bedroom05EF20Bedroom05EF21Bedroom05EF22cLiving/Kitchen05EF23cLiving/Kitchen05EF24Bedroom05EF25Bedroom	10
05EF19Bedroom05EF20Bedroom05EF21Bedroom05EF22cLiving/Kitchen05EF23cLiving/Kitchen05EF24Bedroom05EF25Bedroom	10
05EF20Bedroom05EF21Bedroom05EF22cLiving/Kitchen05EF23cLiving/Kitchen05EF24Bedroom05EF25Bedroom	74
05EF21Bedroom05EF22cLiving/Kitchen05EF23cLiving/Kitchen05EF24Bedroom05EF25Bedroom	96
05EF22c Living/Kitchen 05EF23c Living/Kitchen 05EF24 Bedroom 05EF25 Bedroom	77
05EF23c Living/Kitchen 05EF24 Bedroom 05EF25 Bedroom	10
05EF24 Bedroom 05EF25 Bedroom	10
05EF25 Bedroom	85
	10
05EF26c Living/Kitchen	10
	95
05EF27 Bedroom	10
05EF28 Bedroom	10
05EF29c Living/Kitchen	97

ght provision				
For all habitable rooms				
	14,900	Ix		
nce	e plane to ex	ceed		
ge	BS/EN17037			
	Annex AN			
x	Target Lux	Check		
	100	Pass		
	200	Pass		
	200	Pass		
	100	Pass		
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	200	Pass		
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	100	Pass		
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	100	Pass		
	200	Pass		
	100	Pass		
	200	Pass		
	100	Pass		
	200	Marginal		
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	100	Pass		
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	200	Pass		
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	100	Pass		
	200	Pass		
	100	Pass		
	100	Pass		
	200	Pass		
	100	Pass		

	For all habitable rooms				
Median Ext	ternal Diffuse II	luminance	14,900	lx	
>50 %	of the points o	n a reference	plane to ex	ceed	
EF-v1	Туре				
Ref	Туре	Percentage within Target Lux	BS/EN17037 Annex AN Target Lux	Check	
05EF31	Bedroom	100	100	Pass	
05EF32c	Living/Kitchen	58	200	Pass	
05EF33c	Living/Kitchen	92	200	Pass	
05EF34	Bedroom	100	100	Pass	
05EF35c	Living/Kitchen	84	200	Pass	
05EF36	Bedroom	100	100	Pass	
05EF37	Bedroom	100	100	Pass	
05EF38c	Living/Kitchen	86	200	Pass	
05EF39	Bedroom	100	100	Pass	
05EF40	Bedroom	100	100	Pass	
05EF41c	Living/Kitchen	100	200	Pass	
05EF42	Bedroom	100	100	Pass	
06EF01	Bedroom	100	100	Pass	
06EF02c	Living/Kitchen	100	200	Pass	
06EF03	Bedroom	100	100	Pass	
06EF04c	Living/Kitchen	69	200	Pass	
06EF05	Bedroom	100	100	Pass	
06EF06c	Living/Kitchen	50	200	Pass	
06EF07	Bedroom	100	100	Pass	
06EF08	Bedroom	100	100	Pass	
06EF09c	Living/Kitchen	97	200	Pass	
06EF10	Bedroom	100	100	Pass	
06EF11	Bedroom	100	100	Pass	
06EF12	Bedroom	100	100	Pass	
06EF13	Bedroom	100	100	Pass	
06EF14	Bedroom	95	100	Pass	
06EF15c	Living/Kitchen	72	200	Pass	
06EF16	Bedroom	100	100	Pass	
06EF17	Bedroom	100	100	Pass	
06EF18c	Living/Kitchen	89	200	Pass	
06EF19	Bedroom	97	100	Pass	
06EF20	Bedroom	82	100	Pass	
06EF21	Bedroom	100	100	Pass	
06EF22c	Living/Kitchen	100	200	Pass	
06EF23c	Living/Kitchen	86	200	Pass	
06EF24	Bedroom	100	100	Pass	
06EF25	Bedroom	100	100	Pass	
06EF26c	Living/Kitchen	98	200	Pass	
06EF27	Bedroom	100	100	Pass	
06EF28	Bedroom	100	100	Pass	
06EF29c	Living/Kitchen	100	200	Pass	
06EF30	Bedroom	100	100	Pass	

NA.2 Minimum dayligh

Median Ex	Median External Diffuse Illuminance			
>50 %	>50 % of the points on a reference			
EF-v1	Туре			
D-f	Tura	Percentage within		
Ref	Туре	Target Lux		
06EF31	Bedroom	100		
06EF32c	Living/Kitchen	60		
06EF33c	Living/Kitchen	98		
06EF34	Bedroom	100		
06EF35c	Living/Kitchen	95		
06EF36	Bedroom	100		
06EF37	Bedroom	100		
06EF38c	Living/Kitchen	85		
06EF39	Bedroom	100		
06EF40	Bedroom	100		
06EF41c	Living/Kitchen	100		
06EF42	Bedroom	100		
07EF13	Bedroom	100		
07EF14	Bedroom	100		
07EF15c	Living/Kitchen	66		
07EF16	Bedroom	100		
07EF17	Bedroom	100		
07EF18c	Living/Kitchen	89		
07EF19	Bedroom	94		
07EF20	Bedroom	56		
07EF21	Bedroom	100		
07EF22c	Living/Kitchen	100		
07EF23c	Living/Kitchen	84		
07EF24	Bedroom	100		
07EF25	Bedroom	100		
07EF26c	Living/Kitchen	93		
07EF27	Bedroom	100		
07EF28	Bedroom	82		
07EF29c	Living/Kitchen	91		
07EF30	Bedroom	100		
07EF31	Bedroom	100		
07EF32c	Living/Kitchen	93		
	-			

Summary EF: 93% compliant or 96% if we include marginal results.

nt provision				
For all habitable rooms				
14,900 Ix				
plane to ex	ceed			
BS/EN17037 Annex AN Target Lux Check				
100	Pass			
200	Pass			
200	Pass			
100	Pass			
200	Pass			
100	Pass			
100	Pass			
200	Pass			
100	Pass			
100	Pass			
200	Pass			
100	Pass			
100	Pass			
100	Pass			
200	Pass			
100	Pass			
100	Pass			
200	Pass			
100	Pass			
100	Pass			
100	Pass			
200	Pass			
200	Pass			
100	Pass			
100	Pass			
200	Pass			
100	Pass			
100	Pass			
200	Pass			
100	Pass			
100	Pass			
200	Pass			

			For all hab	itable roor
Median E	xternal Diffuse II	luminance	14,900	lx
>50 %	6 of the points o	n a reference	e plane to ex	ceed
G-v1	Туре			
		Percentage	BS/EN17037	
		within	Annex AN	
Ref	Туре	Target Lux	Target Lux	Check
00G01	Bedroom	100	100	Pass
00G02c	Living/Kitchen	78	200	Pass
00G03	Bedroom	53	100	Pass
00G04c	Living/Kitchen	48	200	Margina
00G05	Bedroom	100	100	Pass
00G06c	Living/Kitchen	99	200	Pass
00G07	Bedroom	100	100	Pass
00G10	Bedroom	100	100	Pass
00G11c	Living/Kitchen	100	200	Pass
00G12	Bedroom	100	100	Pass
01G01	Bedroom	100	100	Pass
01G02c	Living/Kitchen	88	200	Pass
01G03	Bedroom	68	100	Pass
01G04c	Living/Kitchen	51	200	Pass
01G05	Bedroom	98	100	Pass
01G06c	Living/Kitchen	95	200	Pass
01G07	Bedroom	100	100	Pass
01G08c	Living/Kitchen	100	200	Pass
01G09	Bedroom	100	100	Pass
01G10	Bedroom	100	100	Pass
01G11c	Living/Kitchen	99	200	Pass
01G12	Bedroom	100	100	Pass
02G01	Bedroom	100	100	Pass
02G02c	Living/Kitchen	97	200	Pass
02G03	Bedroom	71	100	Pass
02G04c	Living/Kitchen	53	200	Pass
02G05	Bedroom	80	100	Pass
02G06c	Living/Kitchen	100	200	Pass
02G07	Bedroom	100	100	Pass
02G08c	Living/Kitchen	100	200	Pass
02G09	Bedroom	100	100	Pass
02G10	Bedroom	100	100	Pass
02G11c	Living/Kitchen	100	200	Pass
02G12	Bedroom	100	100	Pass
03G01	Bedroom	100	100	Pass
03G02c	Living/Kitchen	97	200	Pass
03G03	Bedroom	87	100	Pass
03G04c	Living/Kitchen	63	200	Pass
03G05	Bedroom	100	100	Pass
03G06c	Living/Kitchen	100	200	Pass
03G07	Bedroom	100	100	Pass
03G08c	Living/Kitchen	100	200	Pass
03G09	Bedroom	100	100	Pass
03G10	Bedroom	100	100	Pass
03G11c	Living/Kitchen	100	200	Pass

NA.2 Minimum dayligh

	Median External Diffuse Illuminance			
>50 % of the points on a reference				
G-v1	Туре			
Ref	Туре	Percentage within Target Lux		
04G01	Bedroom	100		
04G02c	Living/Kitchen	100		
04G03	Bedroom	100		
04G04c	Living/Kitchen	70		
04G05	Bedroom	100		
04G06c	Living/Kitchen	100		
04G07	Bedroom	100		
04G08c	Living/Kitchen	100		
04G09	Bedroom	100		
04G10	Bedroom	100		
04G11c	Living/Kitchen	100		
04G12	Bedroom	100		
05G01	Bedroom	100		
05G02c	Living/Kitchen	100		
05G03	Bedroom	100		
05G04c	Living/Kitchen	94		
05G05	Bedroom	100		
05G06c	Living/Kitchen	100		
05G07	Bedroom	100		
05G08c	Living/Kitchen	100		
05G09	Bedroom	100		
05G10	Bedroom	100		
05G11c	Living/Kitchen	100		
05G12	Bedroom	100		
06G01	Bedroom	100		
06G02c	Living/Kitchen	100		
06G03	Bedroom	100		
06G04c	Living/Kitchen	97		
06G05	Bedroom	100		
06G06c	Living/Kitchen	100		
06G07	Bedroom	100		
06G08c	Living/Kitchen	100		
06G09	Bedroom	100		
06G10	Bedroom	100		
06G11c	Living/Kitchen	100		
06G12	Bedroom	100		

Summary G: 99% compliant or 100% if we include marginal results.

ht provision				
For all habitable rooms				
14,900	lx			
e plane to ex	ceed			
BS/EN17037				
Annex AN	ch h			
Target Lux	Check			
100	Pass			
200	Pass			
100	Pass			
200	Pass			
100	Pass			
200	Pass			
100	Pass			
200	Pass			
100	Pass			
100	Pass			
200	Pass			
100	Pass Pass			
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200	Pass			
100	Pass			
100	Pass			
200	Pass			
100	Pass			
100	Pass			
200	Pass			
100	Pass			
200	Pass			
100	Pass			
200	Pass			
100	Pass			
200	Pass			
100	Pass			
100	Pass			
200	Pass			
100	Pass			



Summary

The majority of rooms fully comply with requirements. Of the few that don't most are very marginal on the 50% requirement.

There are compensatory factors outlined in the Architects Commentary relating to the design and specifics.

	Annex NA		
	E _T % Pass		
	BRE v3 Incl Marginal		
	Pass %	Pass %	
AB	95%	98%	
CD	93%	98%	
EF	93%	96%	
G	99%	100%	
Total	94%	97%	

94% of rooms comply with the BS/EN 17037 Annex NA room targets for 50% of the floor area tested. (97% if we include marginal results)

The average compliant areas achieving the relevant target Lx for all bedrooms is 95% and all Living/Kitchen spaces 80% both are well in excess of the required 50%



Development Performance - Sunlight to rooms (living spaces)

Clause 3.1.2 of the guidance document BRE indicates that special checks should be applied to living rooms to ensure that these core rooms receive the necessary sunlight.

In Housing, the main requirement for sunlight is in living rooms. where it is valued at any time of day but especially in the afternoon.

It then follows with an example of a careful layout for a relatively small block where 4/5 flats have south facing living rooms, and one North which would receive no sunlight at all. From this layout and results we can conclude that an 80% pass rate is considered careful layout design.

Check Clauses

3.1.15 In general a dwelling, or non-domestic building that has a particular requirement for sunlight, will appear reasonably sunlit provided:

- at least one main window wall faces within 90° of due south and

- a habitable room, preferably a main living room, can receive a total of at least 1.5 hours of sunlight on 21 March. This is assessed at the inside centre of the window(s); sunlight received by different windows can be added provided they occur at different times and sunlight hours are not double counted.

3.1.16 Where groups of dwellings are planned, site layout design should aim to maximise the number of dwellings with a main living room that meets the above recommendations

The guidelines accept the difficulty imposed by this requirement and that it will not always be possible to achieve this requirement for ALL living spaces. While it is preferred to have sunlight the guidelines are pragmatic in this regard. The guidelines note that:

3.1.8..... For larger developments of flats, especially those with site constraints, it may not be possible to have every living room facing within 90° of south......

A view or similar may be considered a compensating factor to North facing windows

3.1.7 compensating factor such as an appealing view to the north.



Figure 26: Careful layout design means that four out of the five flats shown have a south-facing living room

Quality of light minimum/medium/high is defined in clause 3.1.10

3.1.10 ... For interiors, access to sunlight can be quantified. BS EN 17037 recommends that a space should receive a minimum of 1.5 hours of direct sunlight on a selected date between 1 February and 21 March with cloudless conditions. It is suggested that 21 March (equinox) be used. The medium level of recommendation is three hours and the high level of recommendation four hours. For dwellings, at least one habitable room, preferably a main living room, should meet at least the minimum criterion.



Receives 1.5 hours of sunlight on 21st March

Block	Floor	Window/Room	Ref	Hrs of Sun	Pass		Quality	
AB	F0	R19	00.AB.19	2.3	Pass	Min		
AB	FO	R21	00.AB.21	2.0	Pass	Min		
AB	F0	R24	00.AB.24	1.3	Marginal			
AB	F0	R28	00.AB.28	1.0	Fail			
AB	F1	R02	01.AB.02	7.0	Pass			High
AB	F1	R05	01.AB.05	3.8	Pass		Medium	
AB	F1	R07	01.AB.07	5.7	Pass			High
AB	F1	R09	01.AB.09	2.5	Pass	Min		
AB	F1	R11	01.AB.11	4.8	Pass			High
AB	F1	R12	01.AB.12	3.5	Pass		Medium	
AB	F1	R15	01.AB.15	2.8	Pass	Min		
AB	F1	R17	01.AB.17	2.0	Pass	Min		
AB	F1	R20	01.AB.20	2.0	Pass	Min		
AB	F1	R28	01.AB.28	0.2	Fail			
AB	F1	R31	01.AB.31	4.2	Pass			High
AB	F2	R02	02.AB.02	10.5	Pass			High
AB	F2	R05	02.AB.05	3.8	Pass		Medium	
AB	F2	R07	02.AB.07	5.7	Pass			Higl
AB	F2	R09	02.AB.09	3.2	Pass		Medium	-
AB	F2	R11	02.AB.11	4.8	Pass			High
AB	F2	R12	02.AB.12	4.7	Pass			Higl
AB	F2	R15	02.AB.15	2.7	Pass	Min		
AB	F2	R17	02.AB.17	2.3	Pass	Min		
AB	F2	R20	02.AB.20	2.5	Pass	Min		
AB	F2	R28	02.AB.28	0.5	Fail			
AB	F2	R31	02.AB.31	7.3	Pass			High
AB	F3	R02	03.AB.02	10.8	Pass			High
AB	F3	R05	03.AB.05	3.8	Pass		Medium	, ngi
AB	F3	R07	03.AB.07	5.7	Pass		Wearann	High
AB	F3	R09	03.AB.09	2.5	Pass	Min		ingi
AB	F3	R11	03.AB.11	4.8	Pass	IVIIII		High
AB	F3	R12	03.AB.12	3.5	Pass		Medium	riigi
AB	F3	R12	03.AB.12	2.8	Pass	Min	Wealum	
AB	F3	R15		2.7	Pass	Min		
AB	F3		03.AB.17	2.7				
	F3	R20	03.AB.20		Pass Fail	Min		
AB		R28	03.AB.28	1.0				112-1
AB	F3	R31	03.AB.31	7.7	Pass			High
AB	F4	R02	04.AB.02	11.0	Pass			High
AB	F4	R05	04.AB.05	3.8	Pass		Medium	
AB	F4	R07	04.AB.07	5.7	Pass			High
AB	F4	R09	04.AB.09	3.2	Pass		Medium	
AB	F4	R11	04.AB.11	4.8	Pass			High
AB	F4	R12	04.AB.12	4.7	Pass			High
AB	F4	R15	04.AB.15	2.7	Pass	Min		
AB	F4	R17	04.AB.17	2.8	Pass	Min		
AB	F4	R20	04.AB.20	3.5	Pass		Medium	
AB AB	F4 F4	R28 R31	04.AB.28 04.AB.31	1.7 7.7	Pass Pass	Min		

	Sun	light to	living	room	S			
Re	ceive	s 1.5 hours of	sunlight	on 21st N	1arch			
AB								
Block	Floor	Window/Room	Ref	Hrs of Sun	Pass		Quality	
AB	F5	R02	05.AB.02	11.0	Pass			High
AB	F5	R05	05.AB.05	3.8	Pass		Medium	
AB	F5	R07	05.AB.07	5.7	Pass			High
AB	F5	R09	05.AB.09	2.5	Pass	Min		
AB	F5	R11	05.AB.11	4.8	Pass			High
AB	F5	R12	05.AB.12	3.5	Pass		Medium	
AB	F5	R15	05.AB.15	2.8	Pass	Min		
AB	F5	R17	05.AB.17	3.5	Pass		Medium	
AB	F5	R20	05.AB.20	4.2	Pass			High
AB	F5	R28	05.AB.28	2.2	Pass	Min		_
AB	F5	R31	05.AB.31	7.8	Pass			High
AB	F6	R02	06.AB.02	11.0	Pass			High
AB	F6	R05	06.AB.05	3.3	Pass		Medium	
AB	F6	R07	06.AB.07	3.0	Pass		Medium	
AB	F6	R09	06.AB.09	4.8	Pass			High
AB	F6	R11	06.AB.11	4.8	Pass			High
AB	F6	R12	06.AB.12	4.7	Pass			High
AB	F6	R15	06.AB.15	2.7	Pass	Min		
AB	F6	R17	06.AB.17	4.3	Pass			High
AB	F6	R20	06.AB.20	5.2	Pass			High
AB	F6	R28	06.AB.28	3.0	Pass		Medium	
AB	F6	R31	06.AB.31	3.0	Pass		Medium	
AB	F7	R31	07.AB.31	9.7	Pass			High
AB	F7	R61	07.AB.61	2.8	Pass	Min		
AB	F7	R62	07.AB.62	5.0	Pass			High
AB	F7	R63	07.AB.63	5.3	Pass			High
AB	F8	R64	08.AB.64	9.7	Pass			High
AB	F8	R65	08.AB.65	2.7	Pass	Min		-
AB	F8	R66	08.AB.66	5.8	Pass			High
AB	F8	R67	08.AB.67	5.8	Pass			High
AB	F9	R68	09.AB.68	9.7	Pass			High
AB	F9	R69	09.AB.69	2.8	Pass	Min		-
AB	F9	R70	09.AB.70	5.8	Pass			High
AB	F9	R71	09.AB.71	5.8	Pass			High
AB	F10	R72	10.AB.72	9.7	Pass			High
AB	F10	R73	10.AB.73	2.8	Pass	Min		-
AB	F10	R74	10.AB.74	5.8	Pass			High
AB	F10	R75	10.AB.75	5.8	Pass			High
AB	F11	R76	11.AB.76	9.7	Pass			High
AB	F11	R77	11.AB.77	2.7	Pass	Min		
AB	F11	R78	11.AB.78	5.8	Pass			High
AB	F11	R79	11.AB.79	5.8	Pass			High

Summary G: 94% compliant or 96% if we include marginal results.



Receives 1.5 hours of sunlight on 21st March

Block	Floor	Window/Room	Ref	Hrs of Sun	Pass		Quality	
CD	FO	R02	00.CD.02	5.0	Pass			High
CD	FO	R04	00.CD.04	1.7	Pass	Min		
CD	FO	R09	00.CD.09	1.5	Pass	Min		
CD	FO	R11	00.CD.11	0.3	Fail			
CD	FO	R14	00.CD.14	1.3	Marginal			
CD	FO	R16	00.CD.16	1.2	Marginal			
CD	FO	R34	00.CD.34	2.5	Pass	Min		
CD	FO	R37	00.CD.37	1.0	Fail			
CD	F1	R02	01.CD.02	6.0	Pass			High
CD	F1	R04	01.CD.04	1.5	Pass	Min		
CD	F1	R06	01.CD.06	0.5	Fail			
CD	F1	R09	01.CD.09	2.0	Pass	Min		
CD	F1	R11	01.CD.11	0.3	Fail			
CD	F1	R14	01.CD.14	0.0	Fail			
CD	F1	R16	01.CD.16	0.5	Fail			
CD	F1	R19	01.CD.19	1.0	Fail			
CD	F1	R20	01.CD.20	1.3	Marginal			
CD	F1	R24	01.CD.24	2.5	Pass	Min		
CD	F1	R27	01.CD.27	2.7	Pass	Min		
CD	F1	R30	01.CD.30	2.0	Pass	Min		
CD	F1	R34	01.CD.30	1.5				
	F1				Pass	Min	Madium	
CD		R37	01.CD.37	3.0	Pass		Medium	
CD	F2	R02	02.CD.02	10.3	Pass			High
CD	F2	R04	02.CD.04	1.5	Pass	Min		
CD	F2	R06	02.CD.06	0.8	Fail			
CD	F2	R09	02.CD.09	2.5	Pass	Min		
CD	F2	R11	02.CD.11	0.7	Fail			
CD	F2	R14	02.CD.14	0.2	Fail			
CD	F2	R16	02.CD.16	0.0	Fail			
CD	F2	R19	02.CD.19	1.0	Fail			
CD	F2	R20	02.CD.20	1.5	Pass	Min		
CD	F2	R24	02.CD.24	2.7	Pass	Min		
CD	F2	R27	02.CD.27	3.2	Pass		Medium	
CD	F2	R30	02.CD.30	2.3	Pass	Min		
CD	F2	R34	02.CD.34	2.3	Pass	Min		
CD	F2	R37	02.CD.37	2.8	Pass	Min		
CD	F3	R02	03.CD.02	10.5	Pass			High
CD	F3	R04	03.CD.04	1.5	Pass	Min		
CD	F3	R06	03.CD.06	1.3	Marginal			
CD	F3	R09	03.CD.09	3.0	Pass		Medium	
CD	F3	R11	03.CD.11	1.0	Fail			
CD	F3	R14	03.CD.14	0.7	Fail			
CD	F3	R16	03.CD.16	0.7	Fail			
CD	F3	R19	03.CD.19	1.0	Fail			
CD	F3	R20	03.CD.20	1.8	Pass	Min		
CD	F3	R24	03.CD.24	3.0	Pass		Medium	
CD	F3	R27	03.CD.27	3.7	Pass		Medium	
CD	F3	R30	03.CD.30	2.8	Pass	Min		
CD	F3	R34	03.CD.34	3.0	Pass		Medium	
CD	F3	R37	03.CD.37	7.3	Pass		meanum	High

	Sun	light to	living	room	าร			
Re	ceive	s 1.5 hours of	sunlight	on 21st I	March			
D								
Block	Floor	Window/Room	Ref	Hrs of Sun	Pass		Quality	
CD	F4	R02	04.CD.02	10.8	Pass			High
CD	F4	R04	04.CD.04	1.8	Pass	Min		
CD	F4	R06	04.CD.06	1.8	Pass	Min		
CD	F4	R09	04.CD.09	3.5	Pass		Medium	
CD	F4	R11	04.CD.11	1.7	Pass	Min		
CD	F4	R14	04.CD.14	1.0	Fail			
CD	F4	R16	04.CD.16	0.0	Fail			
CD	F4	R19	04.CD.19	1.0	Fail			
CD	F4	R20	04.CD.20	2.2	Pass	Min		
CD	F4	R24	04.CD.24	3.5	Pass		Medium	
CD	F4	R27	04.CD.27	4.2	Pass			High
CD	F4	R30	04.CD.30	3.3	Pass		Medium	
CD	F4	R34	04.CD.34	3.5	Pass		Medium	
CD	F4	R37	04.CD.37	3.3	Pass		Medium	
CD	F5	R02	05.CD.02	10.8	Pass			High
CD	F5	R04	05.CD.04	2.7	Pass	Min		
CD	F5	R06	05.CD.06	2.7	Pass	Min		
CD	F5	R09	05.CD.09	4.2	Pass			High
CD	F5	R11	05.CD.11	2.3	Pass	Min		
CD	F5	R14	05.CD.14	1.0	Fail			
CD	F5	R16	05.CD.16	0.7	Fail			
CD	F5	R19	05.CD.19	1.3	Marginal			
CD	F5	R20	05.CD.20	2.5	Pass	Min		
CD	F5	R24	05.CD.24	3.7	Pass		Medium	
CD	F5	R27	05.CD.27	4.8	Pass			High
CD	F5	R30	05.CD.30	3.7	Pass		Medium	
CD	F5	R34	05.CD.34	3.2	Pass		Medium	
CD	F5	R37	05.CD.37	7.3	Pass			High
CD	F6	R02	06.CD.02	10.8	Pass			High
CD	F6	R04	06.CD.04	2.8	Pass	Min		
CD	F6	R06	06.CD.06	2.7	Pass	Min		
CD	F6	R09	06.CD.09	5.0	Pass			High
CD	F6	R11	06.CD.11	4.3	Pass			High
CD	F6	R14	06.CD.14	1.0	Fail			
CD	F6	R16	06.CD.16	0.0	Fail			
CD	F6	R19	06.CD.19	1.3	Marginal			
CD	F6	R20	06.CD.20	3.2	Pass		Medium	
CD	F6	R24	06.CD.24	4.3	Pass			High
CD	F6	R27	06.CD.27	5.7	Pass			High
CD	F6	R30	06.CD.30	4.7	Pass			High
CD	F6	R34	06.CD.34	4.7	Pass			High
CD	F6	R37	06.CD.37	2.7	Pass	Min		
CD	F7	R14	07.CD.14	1.0	Fail			
CD	F7	R16	07.CD.16	0.3	Fail			
CD	F7	R19	07.CD.19	1.2	Marginal			
CD	F7	R20	07.CD.20	4.0	Pass			High
CD	F7	R24	07.CD.24	5.2	Pass			High
CD	F7	R27	07.CD.27	10.0	Pass			High

Summary CD: 67% compliant or 74% if we include marginal results.



Receives 1.5 hours of sunlight on 21st March

Block	Floor	Window/Room	Ref	Hrs of Sun	Pass		Quality	
							Quanty	112-L
EF EF	F0 F0	R02 R04	00.EF.02	4.8	Pass			High
			00.EF.04	2.5	Pass	Min		
EF	F0	R06	00.EF.06	1.3	Marginal			
EF	F0	R38	00.EF.38	0.8	Fail			
EF	F0	R41	00.EF.41	2.8	Pass	Min		112-1
EF	F1	R02	01.EF.02	5.7	Pass			High
EF	F1	R04	01.EF.04	3.0	Pass		Medium	
EF	F1	R06	01.EF.06	0.8	Fail			
EF	F1	R09	01.EF.09	0.8	Fail			
EF	F1	R15	01.EF.15	1.7	Pass	Min		
EF	F1	R18	01.EF.18	2.5	Pass	Min		
EF	F1	R22	01.EF.22	1.3	Marginal			
EF	F1	R23	01.EF.23	3.0	Pass		Medium	
EF	F1	R26	01.EF.26	1.8	Pass	Min		
EF	F1	R29	01.EF.29	4.3	Pass			High
EF	F1	R32	01.EF.32	3.5	Pass		Medium	
EF	F1	R33	01.EF.33	2.0	Pass	Min		
EF	F1	R35	01.EF.35	2.7	Pass	Min		
EF	F1	R38	01.EF.38	1.8	Pass	Min		
EF	F1	R41	01.EF.41	1.3	Marginal			
EF	F2	R02	02.EF.02	9.7	Pass			High
EF	F2	R04	02.EF.04	3.0	Pass		Medium	
EF	F2	R06	02.EF.06	1.2	Marginal			
EF	F2	R09	02.EF.09	2.3	Pass	Min		
EF	F2	R15	02.EF.15	2.3	Pass	Min		
EF	F2	R18	02.EF.18	2.8	Pass	Min		
EF	F2	R22	02.EF.22	1.7	Pass	Min		
EF	F2	R23	02.EF.23	2.8	Pass	Min		
EF	F2	R26	02.EF.26	2.3	Pass	Min		
EF	F2	R29	02.EF.29	5.0	Pass			High
EF	F2	R32	02.EF.32	3.2	Pass		Medium	
EF	F2	R33	02.EF.33	2.3	Pass	Min		
EF	F2	R35	02.EF.35	3.0	Pass		Medium	
EF	F2	R38	02.EF.38	1.5	Pass	Min		
EF	F2	R41	02.EF.41	5.3	Pass			High
EF	F3	R02	03.EF.02	10.0	Pass			High
EF	F3	R04	03.EF.04	3.0	Pass		Medium	
EF	F3	R06	03.EF.06	0.8	Fail			
EF	F3	R09	03.EF.09	2.7	Pass	Min		
EF	F3	R15	03.EF.15	2.7	Pass	Min		
EF	F3	R18	03.EF.18	3.0	Pass		Medium	
EF	F3	R22	03.EF.22	2.0	Pass	Min		
EF	F3	R23	03.EF.23	3.8	Pass		Medium	
EF	F3	R26	03.EF.26	2.7	Pass	Min		
EF	F3	R29	03.EF.29	5.2	Pass			High
EF	F3	R32	03.EF.32	4.3	Pass			High
EF	F3	R33	03.EF.33	2.8	Pass	Min		
EF	F3	R35	03.EF.35	3.3	Pass		Medium	
EF	F3	R38	03.EF.38	2.2	Pass	Min		
EF	F3	R41	03.EF.41	4.7	Pass			High

Po	colve	s 1.5 hours of	eunlight	on 21ct M	larch			
	cerve	5 1.5 hours of	sunngnu	ON ZISUN	larch			
F								
Block	Floor	Window/Room	Ref	Hrs of Sun	Pass		Quality	
EF	F4	R02	04.EF.02	10.8	Pass			High
EF	F4	R04	04.EF.04	3.5	Pass		Medium	
EF	F4	R06	04.EF.06	2.2	Pass	Min		
EF	F4	R09	04.EF.09	3.2	Pass		Medium	
EF	F4	R15	04.EF.15	3.3	Pass		Medium	
EF	F4	R18	04.EF.18	3.5	Pass		Medium	
EF	F4	R22	04.EF.22	2.2	Pass	Min		
EF	F4	R23	04.EF.23	3.3	Pass		Medium	
EF	F4	R26	04.EF.26	2.8	Pass	Min		
EF	F4	R29	04.EF.29	5.3	Pass			High
EF	F4	R32	04.EF.32	4.8	Pass			High
EF	F4	R33	04.EF.33	2.3	Pass	Min		
EF	F4	R35	04.EF.35	3.8	Pass		Medium	
EF	F4	R38	04.EF.38	2.8	Pass	Min		
EF	F4	R41	04.EF.41	6.8	Pass			High
EF	F5	R02	05.EF.02	10.8	Pass			High
EF	F5	R04	05.EF.04	4.0	Pass			High
EF	F5	R06	05.EF.06	2.8	Pass	Min		
EF	F5	R09	05.EF.09	2.3	Pass	Min		
EF	F5	R15	05.EF.15	3.3	Pass		Medium	
EF	F5	R18	05.EF.18	4.2	Pass			High
EF	F5	R22	05.EF.22	2.2	Pass	Min		
EF	F5	R23	05.EF.23	4.0	Pass			High
EF	F5	R26	05.EF.26	2.8	Pass	Min		
EF	F5	R29	05.EF.29	5.3	Pass			High
EF	F5	R32	05.EF.32	4.8	Pass			High
EF	F5	R33	05.EF.33	4.0	Pass			High
EF	F5	R35	05.EF.35	4.7	Pass			High
EF	F5	R38	05.EF.38	3.7	Pass		Medium	
EF	F5	R41	05.EF.41	4.7	Pass			High
EF	F6	R02	06.EF.02	10.8	Pass			High
EF	F6	R04	06.EF.04	4.7	Pass			High
EF	F6	R06	06.EF.06	2.8	Pass	Min		
EF	F6	R09	06.EF.09	4.3	Pass			High
EF	F6	R15	06.EF.15	3.7	Pass		Medium	
EF	F6	R18	06.EF.18	5.0	Pass			High
EF	F6	R22	06.EF.22	2.2	Pass	Min		
EF	F6	R23	06.EF.23	3.5	Pass		Medium	
EF	F6	R26	06.EF.26	2.8	Pass	Min		
EF	F6	R29	06.EF.29	5.3	Pass			High
EF	F6	R32	06.EF.32	4.8	Pass			High
EF	F6	R33	06.EF.33	4.3	Pass			High
EF	F6	R35	06.EF.35	5.3	Pass			High
EF	F6	R38	06.EF.38	4.3	Pass	1.C-		High
EF	F6	R41	06.EF.41	2.7	Pass	Min		112-1
EF	F7	R15	07.EF.15	4.5	Pass			High
EF	F7	R18	07.EF.18	5.5	Pass			High
EF	F7	R22	07.EF.22	2.2	Pass	Min	A	
EF	F7	R23	07.EF.23	3.8	Pass		Medium	
EF	F7	R26	07.EF.26	2.5	Pass	Min		
EF EF	F7 F7	R29 R32	07.EF.29 07.EF.32	5.2 10.3	Pass Pass			High High

Summary EF: 92% compliant or 96% if we include marginal results.



Receives 1.5 hours of sunlight on 21st March

G							
Block	Floor	Window/Room	Ref	Hrs of Sun	Pass	Quality	
G	FO	R02	00.G.02	5.3	Pass		High
G	FO	R04	00.G.04	5.3	Pass		High
G	FO	R06	00.G.06	3.2	Pass	Medium	
G	FO	R11	00.G.11	7.0	Pass		High
G	F1	R02	01.G.02	4.2	Pass		High
G	F1	R04	01.G.04	4.2	Pass		High
G	F1	R06	01.G.06	4.0	Pass		High
G	F1	R08	01.G.08	7.5	Pass		High
G	F1	R11	01.G.11	4.2	Pass		High
G	F2	R02	02.G.02	4.2	Pass		High
G	F2	R04	02.G.04	4.0	Pass		High
G	F2	R06	02.G.06	7.5	Pass		High
G	F2	R08	02.G.08	9.2	Pass		High
G	F2	R11	02.G.11	7.7	Pass		High
G	F3	R02	03.G.02	4.0	Pass		High
G	F3	R04	03.G.04	4.0	Pass		High
G	F3	R06	03.G.06	4.0	Pass		High
G	F3	R08	03.G.08	4.0	Pass		High
G	F3	R11	03.G.11	4.0	Pass		High
G	F4	R02	04.G.02	4.0	Pass		High
G	F4	R04	04.G.04	4.0	Pass		High
G	F4	R06	04.G.06	4.0	Pass		High
G	F4	R08	04.G.08	4.0	Pass		High
G	F4	R11	04.G.11	4.0	Pass		High
G	F5	R02	05.G.02	4.0	Pass		High
G	F5	R04	05.G.04	4.0	Pass		High
G	F5	R06	05.G.06	4.0	Pass		High
G	F5	R08	05.G.08	4.0	Pass		High
G	F5	R11	05.G.11	4.0	Pass		High
G	F6	R02	06.G.02	4.0	Pass		High
G	F6	R04	06.G.04	4.0	Pass		High
G	F6	R06	06.G.06	4.0	Pass		High
G	F6	R08	06.G.08	4.0	Pass		High
G	F6	R11	06.G.11	4.0	Pass		High

Overall Pass rates all blocks sunlight.

	Sunl	įĘ
	Pass	N
AB	94%	
CD	67%	
EF	92%	
G	100%	
Total	86%	

Summary

Sunlight to living rooms:

86% of all Living rooms (90% if we include marginals) receive 1.5hrs of sunlight on the test day of the 21st March

This is consistent with the BRE defined "careful layout design" 80% target.

Summary G: 100% compliant or 100% if we include marginal results.

This is consistent with the guidelines example of "careful layout" design 80%, especially given that this is a urban infill development.

Please refer to the Architects comments for compensatory factors.

5	ł	1	t	

Marginal 96% 74% 96% 100%

90%



Development Performance - Sunlight on the Ground SOG (Shadow) Gardens and Open spaces Tests for the availability of sunlight in amenity areas.

Development Performance - Shadow/Sunlight - Gardens and Open spaces Tests for the availability of sunlight in amenity areas.

3.3.17 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 21 March. If as a result of new development an existing garden or amenity area does not meet the above, and the area that can receive two hours of sun on 21 March is less than 0.80 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 21 March

3.3.3 The availability of sunlight should be checked for all open spaces where it will be required. This would normally include:

- gardens, such as the main back garden of a house or communal gardens including courtyards and roof terraces
- parks and playing fields
- children's playgrounds
- outdoor swimming pools and paddling pools, and other areas of recreational water such as marinas and boating lakes
- sitting out areas such as those between non-domestic buildings and in public squares • nature reserves (which may have special requirements for sunlight if rare plants are
- growing there).

3.3.9 ... Normally trees and shrubs need not be included, partly because their shapes are almost impossible to predict, and partly because the dappled shade of a tree is more pleasant than the deep shadow of a building (this applies especially to deciduous trees). ...

The amenities of the following Building Groups were tested.

- Shared / communal & Public Amenity spaces at ground and roof levels are tested.
- There is no requirement in the BRE guidelines to test Private balconies.

BRE 2-hour Shadow Plots

The graphic below indicates the areas which receive 2 hours of sunlight on the 21st March in accordance with the BRE guidelines.

- Green represents areas which exceed the 2-hour requirement pass
- Red is less than the 2-hour requirement fail
- Orange are marginal or borderline just below the 2-hour requirement





Proposed



The results are tabulated below:

		Shadow / Sunlight Amenity					
		>50% r	eceives 2 hour	s of sunlight on 21s	t March)		
Туре	Floor	Ref	Ref	% 2hr Sunlight	Check		
Public	FO	Ap.1	0.Ap.1	98%	Pass		
Shared/communal	FO	As.2	0.As.2	95%	Pass		
Shared/communal	FO	As.3	0.As.3	76%	Pass		
Shared/communal	F1	As.4	1.As.4	66%	Pass		
Shared/communal	F6	As.5	6.As.5	99%	Pass		
Shared/communal	F7	As.6	7.As.6	99%	Pass		
Shared/communal	F11	As.7	11.As.7	87%	Pass		

Please note that passing the BRE requirements does not imply that shadows will not be cast over an amenity space at all. Shadows which are transient by nature may not impact on the percentage of the space which receives 2 hours of sunlight on the 21st of March.

Conclusion

100% of the new provided communal and public amenity spaces pass the BRE requirement. There is considerable overprovision of amenity space.

The tested spaces comply with the requirements of the BRE guidelines in relation to shadow.



Details of Architect's Compensatory Measures / Justification

The design is constrained as an extension of the Phase 1 regeneration development, by the site shape and orientation. The scheme has a number of competing design constraints and objectives it is specifically covered by clause 6.7 of the Sustainable Urban Housing: Design Standards for New Apartments Guidelines for Planning Authorities – amended July 2023:

6.6 Planning authorities should ensure appropriate expert advice and input where necessary, and have regard to quantitative performance approaches to daylight provision outlined in guides like A New European Standard for Daylighting in Buildings EN17037 or UK National Annex BS EN17037 and the associated BRE Guide 209 2022 Edition (June 2022), or any relevant future guidance specific to the Irish context, when undertaken by development proposers which offer the capability to satisfy minimum standards of daylight provision.

6.7 Where an applicant cannot fully meet all of the requirements of the daylight provisions above, this must be clearly identified and a rationale for any alternative, compensatory design solutions must be set out, which planning authorities should apply their discretion in accepting taking account of its assessment of specific. This may arise due to a design constraints associated with the site or location and the balancing of that assessment against the desirability of achieving wider planning objectives. Such objectives might include 30 securing comprehensive urban regeneration and or an effective urban design and streetscape solution.

We accept that a small number of rooms may not meet the BRE recommendations for daylight/ sunlight in certain locations at the lower levels of the development, however, a high level of residential amenity will be delivered for all the residents of this scheme, such as:

a) In this urban infill site, a strong emphasis was placed on catering for high-quality sun lit areas such as the public and communal spaces, as well as private amenity spaces, which ensures that sunlit spaces will be accessible to all residents within the development and not just those with more favourably orientated apartments. A wide variety of communal amenity areas are also provided for within the scheme at the Ground, First, Seventh and twelfth floors. Furthermore, there is an overprovision of communal amenity space, of over 900sq.m, which can be likened to a compensatory measure for certain apartments receiving below the BRE recommendations. All amenity spaces surpass the sun-lighting requirement by substantial margins.

b) The design of the private balconies has been influenced by the necessity to provide shelter and protection from the wind in addition to any sunlighting requirement. In this regard, all balconies are fully or partially recessed into the block, and we recognize that these recessed balconies will naturally reduce sunlight exposure, but they will ultimately contribute to a more user-friendly and comfortable private amenity space for residents. It should also be noted, however, that a high proportion of balconies are substantially larger than the required areas for private open space, thus affording increased residential amenity for future residents of the development.

c) 94% (or 97% including marginals) of the apartments receive above the required levels of daylighting and the analysis shows that all tested amenity spaces and living rooms also receive sunlight. There are no single north-facing single-aspect apartments within the entire scheme of 321 no. dwellings.

d) In order to improve sun lighting to ground floor units, the floor to ceiling height has been set at a generous 3m height and ground floor windows will be 2.7m high, which is substantially higher than the 2.1m standard height.

Future occupants will enjoy great levels of both daylight and sunlight within the proposed units and while having access to a number of amenity areas that are capable of receiving excellent levels of sunlight. The site is also directly opposite Santry Demesne Park which has large areas of open space and additional amenities. The results find that any impact on the sunlight received by individual apartments would be minimal in the overall context of the urban setting of the proposed development. There is a sufficient good quality of daylight in the apartments analysed and the amenity areas all have sufficient sunlight to be bright and pleasant spaces.



Summary – Development Performance

This report is in compliance with: "Site layout planning for daylight and sunlight a guide to good practice" - BR209". It also references EN 17037 and Annex NA (BS/EN 17037) as and where called for in the above BRE guidance document.

Performance of the proposed design

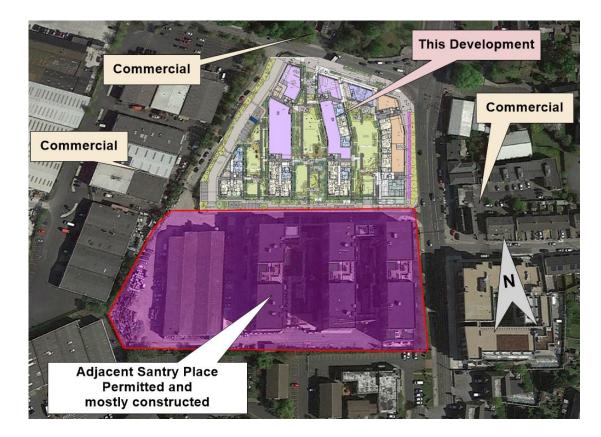
- Target Illuminance E_T
 - **94%** of rooms comply with the BS/EN 17037 Annex NA room targets for 50% of the floor area tested.
 - If we include marginal results this increases to 97%
 - \circ $\;$ The average compliant areas achieving the relevant target Lx for
 - all bedrooms is 95% and
 - all Living/Kitchen spaces 80%
 - both are well in excess of the required 50%
- Sunlight to rooms:
 - **86%** of Living rooms receive 1.5hrs of sunlight on the test day of the 21st March
 - If we include marginal results this increases to **90%**
 - This is consistent with the BRE defined "careful layout design" 80% target.
- Sunlight on the Ground SOG (Shadow)
 - **100%** of the new provided communal and public amenity spaces pass the BRE requirement.
 - There is considerable overprovision of amenity space.
 - The tested spaces comply with the requirements of the BRE guidelines in relation to shadow.

The application generally complies with the recommendations and guidelines of Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice BR209 (Version 3, 2022) when considered in terms of this infill and regeneration project in an un-developed lot.



Impact on Neighbours

The proposed development generally sits amid commercial and retail buildings.



- North: To the North is a single storey commercial building in the heavily forested section of Santry Park.
- West: Commercial, office and warehouse buildings lie to the West.
- East: Across the relatively wide Swords Road lies retails and commercial buildings.
- **South:** Finally, to the South in line with each of the proposed blocks lies the permitted Santry Place, mixed use development.

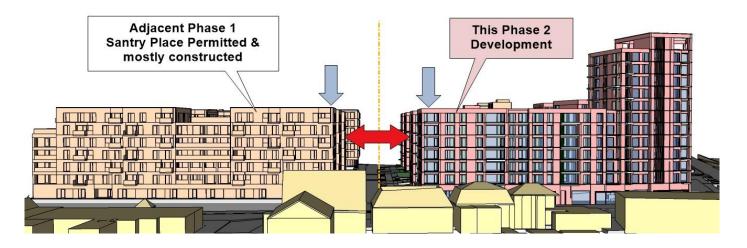
Impact is only considered for residential neighbours and thus we only need to look South in this case at the adjacent apartments permitted in the Santry place development.

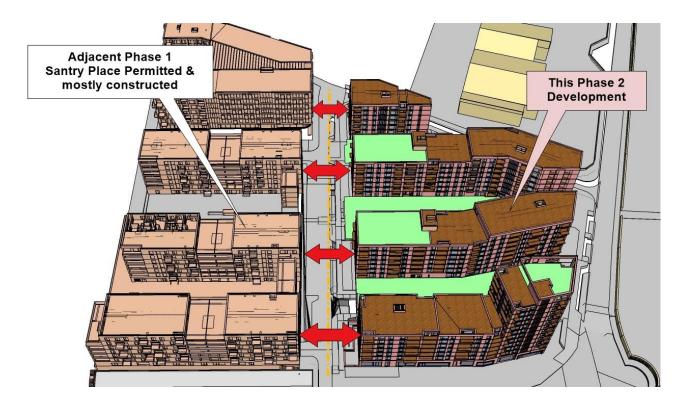
Since the current proposal sits directly to the North of Santry Place, there can be no impact on sunlight and no shadows can be cast this direction.

Particular care has been taken by the Architect to ensure good separation of the inline blocks in both the permitted development to the south and the current proposal to the north of same.

Mirrored Development.

This proposal Phase 2 along the interface line is a mirrored development of the permitted and constructed Phase 1 design. The proposed design extends the existing blocks in height and location along the interface. The design of both Phase 1 and Phase 2 were cognisant of the neighbouring proposals and development potential.







Appendix F provides clarity on how adjacent and mirrored developments should be examined clause F5 applies

F5 A similar approach may be adopted in cases where an existing building has windows that are unusually close to the site boundary and taking more than their fair share of light. Figure F3 shows an example, where side windows of an existing building are close to the boundary. To ensure that new development matches the height and proportions of existing buildings, the VSC and APSH targets for these windows could be set to those for a 'mirror-image' building of the same height and size, an equal distance away on the other side of the boundary.

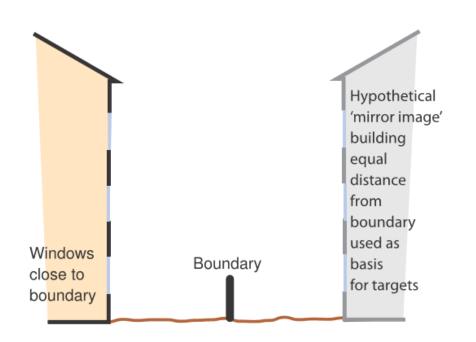


Figure F3: Use of a hypothetical mirror image building to set target daylight values

The layout of the current proposal, if approved, when read with Santry Place, will represent a comprehensive redevelopment of this brownfield condition at the junction of Santry Place & Swords Road.

The Phase 2 proposed development (along the interface) is a direct mirror of granted Phase 1 application as it is evident that any impact on the Northern gable façade will be the same as the theoretical mirrored design.

The development impact is therefore compliant with the guidelines and the Mirrored baseline development approach of Appendix F.

Summary impact Neighbours

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- Non-residential buildings sit to the West, North and East of the proposal and do not require testing.
 - Phase 1 Santry Place sits to the South of this Phase 2 proposal. Sunlight to amenity and windows of the granted Santry Place cannot be impacted by this current proposal as it sits to the North.
 - In relation to skylight (VSC) this proposal Phase 2 along the interface line is a mirrored development of the permitted and constructed Phase 1 design. Any impact along the closer façades will therefore be compliant with the guidelines and the Mirrored baseline development approach of Appendix F.
- The impact of this proposed mirrored Phase 2 development on the existing Phase 1 development is indistinguishable to that of an appendix F mirrored baseline analysis and therefore complaint with the BRE guidelines.



Commentary on the Dublin City Development Plan – Appendix 16

Advice information only.

The DCC Development plan was developed in its draft format prior to the release of the BRE v3 guidelines.

It was, however, cognisant of the incoming BRE v3 guidelines and sought to provide clarity on how to cover all options during the interim period by way of a comprehensive Appendix 16.

Unfortunately, the BRE v3 was published before the DCC Development plan moved from draft to final and there wasn't time for Appendix 16 to be updated to reflect the same.

However, Clause 5.0 covered what should happen when the BRE v3 document was published: ... Until such time when BR 209 is updated and all relevant and required information is included (i.e. removal of reference to BS 8206-2 and inclusion of metrics within BS EN 17037), the planning authority will request metrics from both BS 8206-2 and BS EN 17037. ...

This is now the case since

- The British Standard BS EN 17037:2018 is the UK implementation of EN 17037:2018. It supersedes BS 8206-2:2008, which was withdrawn in 2018.
- BRE 'Site Layout Planning for Daylight and Sunlight' 2022 v3 is a new release which references BS EN 17037 and all references to BS 8206-2 are removed. It superseded the BRE v2 - 2011 edition which was withdrawn in 2022.
- The new 2023 Department Apartment guidelines and the 2024 Compact Settlement guidelines now only reference the new publications.

As such there is no reason why now, any analysis should be run against the withdrawn guidelines/standards which are also no longer referenced in the current department documents.

This report is therefore in accordance with the current guidelines and standards, BRE 'Site Layout Planning for Daylight and Sunlight' – 2022 v3, BS EN 17037's Annex NA, and as per the department apartment guidelines 2023, and the compact settlements 2024.



Appendix 1 Light Distribution Alternative Target Illuminance ET Metric Non-Annex Analysis

Comparison between the Annex and non-Annex results

And reasoning behind adoption and applicability of the BS/EN Annex

This is a supplementary analysis which does not reflect the performance of the proposed design in temperate climates such as Ireland / UK. There should be no expectation that the design would comply with these requirements.

The NA-annex results in the main body of this report reflect design in such conditions. This is as defined by the UK committee and directly referenced in Irish Department publications such "Sustainable Urban Housing: Design Standards for New Apartments, Guidelines for Planning Authorities" July 2023, the "Sustainable and Compact Settlements: Guidelines for Planning Authorities 2024" and many Development Plans.



Design Standards / Guidelines Light Distribution.

BRE v2 - 2011 / BS 8206-2

The original BRE guidelines "Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice – Second Edition - 2011" was cross-referenced to and from the now withdrawn BS 8206-2 : 2008.

It looked at light distribution within a room based on Average Daylight Factor ADF (an average over the entire room surface) and was based off the CIE overcast sky and results of rooms were based on obstructions, room geometry, ope sizes, radiance and transmittance but was constant from location to location on the globe.

The guidelines and BS standard took into account room usage placing higher degrees of importance on living spaces than to bedrooms, which is a reasonable consideration, given that bedrooms are typically used more at night.

Given that these Standard and Guidelines are withdrawn tests such as ADF are no longer relevant.

BRE v3 - 2022 / EN 17037

The new BRE guidelines "Site Layout Planning for Daylight and Sunlight: A Guide to Good Practice – Third Edition - 2022" provides best guidelines for analysing development while referencing relevant elements of EN 17037 similar to how the withdrawn BRE $v_2 - 2011$ provided best guidelines for analysing development referencing relevant elements of withdrawn BS 8206-2.

This best practice guideline has been considered the de-facto standard since 1991 and details how to apply EN 17037.

Impact on neighbours and shadow elements are handled only within the BRE guidelines but the EN standard covers some elements of development performance.

EN 17037 also looks at internal light distribution/daylight but in terms of target illuminance over a specific percentage of a room. Target illuminance is driven by the available external light which varies by location on the globe. However, the internal room lux targets Lx we strive to achieve remain unchanged.

There are various tables of requirements (minimum, medium and high), and these are defined for all rooms and do not consider the rooms usage. The minimum targets are:

Rooms	300lx over 50% of room area
AND	100lx over 95% of room area

Localisation

The EN 17037 is designed to be localised and a blank National Annex is provided in for that purpose.

This is an acknowledgement that design will vary in different countries and that adjustment will be needed to take into account available external light which itself drives the internal lux results and other design constraints / objectives. The Irish version of this standard IS EN17037 currently has no specific National Annex

The UK committee, in their examination of this provided recommendations which are pulled through to the National Annex in the UK variant of this document BS EN 17037

Given the similarity of weather, light and design patterns between Ireland and the UK in many areas and the absence of specific localisation Annex information in the IS version it is not unreasonable to apply the BS recommendations at this time. There is considerable precedence in the adoption of such technical recommendations in the engineering and indeed legal professions.

The UK committee acknowledged the difficulty of achieving the primary lux targets outlined in the main body of the report particularly in dwellings in our climates. The Annex recommendations are focused on dwellings which is the subject of the vast majority of our reports. The committee again re-affirmed their commitment that room usage should be considered and set lower target illuminance values accordingly for dwellings based on the same.

Bedroom	
Living Rooms	
Kitchens	

Dual usage rooms use the higher value.

These targets were derived from BS 8206-2:2008 Lighting for buildings – Part 2: Code of practice for daylighting, targets have served us well in the past and which have been the staple for design for years. We have dual run multiple projects BRE v2 (ADF) vs BRE v3 Annex (Et) and as expected they show very similar compliance rates.

Furthermore, the UK committee decided that the target illuminance across the entire (i.e. 95 %) need not be applied to rooms in dwellings.

Analysis

We concur with the UK committees' recommendations for daylight provision in a space may not be achievable for some buildings, particularly dwellings and that a target illuminance level should be achieved across the entire (i.e. 95 %) fraction of the reference plane within a space – need **not** be applied to rooms in dwellings.

The targets defined in the National Annex are linked to the targets have served us well in the past and have been the staple for design for years. The primary results have thus been compiled based on the UK Annex NA targets, tabulated in the report main body.

We have for the avoidance of doubt also provided results based on the non-annex Standard, in Appendix 1. The results for which show that the conclusions of the UK committee were justified and that the standard (non-Annex) targets are unlikely to be achieved in a more densely developed residential sites.

This is in accordance with the Departments "Sustainable Urban Housing: Design Standards for New Apartments, Guidelines for Planning Authorities" July 2023 and clause 6.6 which directly references the UK National Annex BS EN17037:2019.

100lx over 50% of room area	
150lx over 50% of room area	
200lx over 50% of room area	



Block AB – ET results - Tabulated.

			For all ha	bitable rooms					For all ha	bitable rooms	
Median Ex	ternal Diffuse III	uminance	14,900	lx		Median Ex	ternal Diffuse II	luminance	14,900	lx	
>50 %	of the points o	n a reference	e plane to e	xceed		>50 %	of the points o	n a reference	e plane to e	xceed	
		Percentage	EN17037 Check	Percentage	EN17037 Check			Percentage	EN17037 Check	Percentage	EN17 Che
Ref	Туре	within 300lx	@ 50%	within 100lx	@ 95%	Ref	Туре	within 300lx	@ 50%	within 100lx	@9
00AB19l	Living	100	Pass	100	Pass	02AB11c	Living/Kitchen	52	Pass	100	Pa
00AB20	Bedroom	16	Fail	44	Fail	02AB12c	Living/Kitchen	55	Pass	100	Pa
00AB21	Bedroom	23	Fail	68	Fail	02AB13	Bedroom	59	Pass	100	P
00AB22c	Living/Kitchen	25	Fail	100	Pass	02AB14	Bedroom	100	Pass	100	P
00AB23	Bedroom	30	Fail	82	Marginal	02AB15c	Living/Kitchen	100	Pass	100	P
00AB24c	Living/Kitchen	29	Fail	100	Pass	02AB16	Bedroom	74	Pass	100	P
00AB26	Bedroom	29	Fail	100	Pass	02AB17c	Living/Kitchen	46	Marginal	100	P
00AB27	Bedroom	31	Fail	100	Pass	02AB18	Bedroom	31	Fail	98	P
00AB28c	Living/Kitchen	48	Marginal	98	Pass	02AB19	Bedroom	24	Fail	80	Mar
00AB29	Bedroom	18	Fail	51	Fail	02AB20c	Living/Kitchen	34	Fail	93	Mar
01AB01	Bedroom	38	Fail	100	Pass	02AB21	Bedroom	0	Fail	31	F
01AB02c	Living/Kitchen	97	Pass	100	Pass	02AB22	Bedroom	26	Fail	100	P
01AB03	Bedroom	64	Pass	100	Pass	02AB23	Bedroom	30	Fail	71	F
01AB04	Bedroom	55	Pass	100	Pass	02AB24	Bedroom	24	Fail	57	F
01AB05c	Living/Kitchen	85	Pass	99	Pass	02AB25	Bedroom	26	Fail	72	F
01AB06	Bedroom	31	Fail	100	Pass	02AB26	Bedroom	32	Fail	100	Р
01AB07c	Living/Kitchen	74	Pass	100	Pass	02AB27	Bedroom	43	Marginal	100	P
01AB08	Bedroom	59	Pass	100	Pass	02AB28c	Living/Kitchen	24	Fail	100	Р
01AB09c	Living/Kitchen	11	Fail	67	Fail	02AB29	Bedroom	22	Fail	68	F
01AB10	Bedroom	66	Pass	100	Pass	02AB30	Bedroom	24	Fail	89	Mai
01AB11c	Living/Kitchen	43	Marginal	100	Pass	02AB31c	Living/Kitchen	68	Pass	100	Р
01AB12c	Living/Kitchen	36	Fail	100	Pass	02AB32	Bedroom	41	Marginal	100	P
01AB13	Bedroom	58	Pass	100	Pass	03AB01	Bedroom	46	Marginal	100	P
01AB14	Bedroom	100	Pass	100	Pass	03AB02c	Living/Kitchen	98	Pass	100	P
01AB14 01AB15c	Living/Kitchen	100	Pass	100	Pass	03AB020	Bedroom	62	Pass	100	P
01AB150	Bedroom	52	Pass	100	Pass	03AB03	Bedroom	58	Pass	100	P
01AB10	Living/Kitchen	34		89		03AB05c	Living/Kitchen	94	Pass	99	P
01AB17C	Bedroom	25	Fail	81	Marginal	03AB05C	Bedroom	30	Fail	100	P
01AB18 01AB19		23	Fail Fail	75	Marginal	03AB07c	Living/Kitchen	75	Pass	100	P
01AB15	Bedroom	22	Fail	85	Fail	03AB07C	Bedroom	56	Pass	100	P
01AB20C	Living/Kitchen Bedroom	0	Fail	22	Marginal Fail	03AB09c	Living/Kitchen	12	Fail	71	F
	Bedroom	27			Pass	03AB10	Bedroom	63	Pass	100	P
01AB22			Fail	100		03AB11c	Living/Kitchen	46		100	
01AB23	Bedroom	27	Fail	69 51	Fail	03AB11C	Living/Kitchen	38	Marginal Fail	100	P
01AB24	Bedroom	21	Fail	51	Fail		Bedroom	38 61		100	
01AB25	Bedroom	22	Fail	65	Fail	03AB13 03AB14	Bedroom		Pass		P
01AB26	Bedroom	27	Fail	100	Pass			100	Pass	100	P
01AB27	Bedroom	35	Fail	98	Pass	03AB15c	Living/Kitchen	100	Pass	100	P
01AB28c	Living/Kitchen	15	Fail	99	Pass	03AB16	Bedroom	58	Pass	100	P
01AB29	Bedroom	19	Fail	59	Fail	03AB17c	Living/Kitchen	46	Marginal	100	P
01AB30	Bedroom	21	Fail	82	Marginal	03AB18	Bedroom	35	Fail	100	P
01AB31c	Living/Kitchen	63	Pass	100	Pass	03AB19	Bedroom	30	Fail	87	Mai
01AB32	Bedroom	33	Fail	100	Pass	03AB20c	Living/Kitchen	41	Marginal	94	Mai
02AB01	Bedroom	42	Marginal	100	Pass	03AB21	Bedroom	0	Fail	38	F
02AB02c	Living/Kitchen	98	Pass	100	Pass	03AB22	Bedroom	38	Fail	100	P
02AB03	Bedroom	62	Pass	100	Pass	03AB23	Bedroom	35	Fail	83	Mar
02AB04	Bedroom	57	Pass	100	Pass	03AB24	Bedroom	30	Fail	64	F
02AB05c	Living/Kitchen	50	Pass	99	Pass	03AB25	Bedroom	33	Fail	80	Mar
02AB06	Bedroom	32	Fail	100	Pass	03AB26	Bedroom	38	Fail	100	P
02AB07c	Living/Kitchen	73	Pass	100	Pass	03AB27	Bedroom	49	Marginal	100	Р
02AB08	Bedroom	54	Pass	100	Pass	03AB28c	Living/Kitchen	25	Fail	100	P
02AB09c	Living/Kitchen	23	Fail	90	Marginal	03AB29	Bedroom	24	Fail	79	Mar
02AB10	Bedroom	67	Pass	100	Pass	03AB30	Bedroom	26	Fail	98	Pa
						03AB31c	Living/Kitchen	75	Pass	100	Pa
						03AB32	Bedroom	42			

Block AB – E_T results - Tabulated.

				bitable rooms							
Median Ex	ternal Diffuse III	uminance	14,900	Ix		Median Ex	ternal Diffuse II	luminance	14,900	lx	
	of the points o		· ·				of the points o				
- 30 /0	or the points o	in a reference	EN17037	ACCEU	EN17037	230 /	or the points e	in a reference	EN17037	ACCEU	EN170
		Percentage	Check	Percentage	Check			Percentage	Check	Percentage	Chec
Ref	Туре	within 300lx	@ 50%	within 100lx	@ 95%	Ref	Туре	within 300lx	@ 50%	within 100lx	@ 95%
04AB01	Bedroom	54	Pass	100	Pass	05AB21	Bedroom	14	Fail	98	Pass
04AB02c	Living/Kitchen	98	Pass	100	Pass	05AB22	Bedroom	60	Pass	100	Pass
04AB03	Bedroom	63	Pass	100	Pass	05AB23	Bedroom	45	Marginal	100	Pass
04AB04	Bedroom	59	Pass	100	Pass	05AB24	Bedroom	37	Fail	93	Margi
04AB05c	Living/Kitchen	54	Pass	99	Pass	05AB25	Bedroom	44	Marginal	100	Pass
04AB06	Bedroom	33	Fail	100	Pass	05AB26	Bedroom	55	Pass	100	Pass
04AB07c	Living/Kitchen	76	Pass	100	Pass	05AB27	Bedroom	65	Pass	100	Pass
04AB08	Bedroom	58	Pass	100	Pass	05AB28c	Living/Kitchen	60	Pass	100	Pass
04AB09c	Living/Kitchen	23	Fail	92	Marginal	05AB29	Bedroom	34	Fail	100	Pass
04AB10	Bedroom	70	Pass	100	Pass	05AB30	Bedroom	34	Fail	100	Pass
AB11c	Living/Kitchen	56	Pass	100	Pass	05AB31c	Living/Kitchen	89	Pass	100	Pass
04AB12c	Living/Kitchen	55	Pass	100	Pass	05AB32	Bedroom	53	Pass	100	Pass
04AB13	Bedroom	63	Pass	100	Pass	06AB01	Bedroom	77	Pass	100	Pass
04AB14	Bedroom	100	Pass	100	Pass	06AB02c	Living/Kitchen	100	Pass	100	Pase
04AB15c	Living/Kitchen	100	Pass	100	Pass	06AB03	Bedroom	73	Pass	100	Pass
04AB16	Bedroom	82	Pass	100	Pass	06AB04	Bedroom	68	Pass	100	Pas
04AB17c	Living/Kitchen	51	Pass	100	Pass	06AB05c	Living/Kitchen	60	Pass	99	Pase
04AB18	Bedroom	39	Fail	100	Pass	06AB06	Bedroom	64	Pass	100	Pass
		37				06AB07c	Living/Kitchen	82	Pass	100	Pas
04AB19	Bedroom		Fail	100	Pass	06AB08	Bedroom	53	Pass	100	Pas
04AB20c	Living/Kitchen	49	Marginal	95	Pass	06AB09c	Living/Kitchen	36	Fail	98	Pase
04AB21	Bedroom	7	Fail	68	Fail	06AB10	Bedroom	61	Pass	100	Pass
04AB22	Bedroom	51	Pass	100	Pass	06AB11c	Living/Kitchen	69	Pass	100	Pass
04AB23	Bedroom	40	Marginal	100	Pass	06AB12c	Living/Kitchen	61	Pass	100	Pass
04AB24	Bedroom	33	Fail	71	Fail	06AB12C	Bedroom	62	Pass	100	Pass
04AB25	Bedroom	38	Fail	93	Marginal	06AB13	Bedroom	100	Pass	100	Pass
04AB26	Bedroom	48	Marginal	100	Pass			100	Pass	100	Pass
04AB27	Bedroom	57	Pass	100	Pass	06AB15c	Living/Kitchen				
D4AB28c	Living/Kitchen	55	Pass	100	Pass	06AB16	Bedroom	97	Pass	100	Pass
04AB29	Bedroom	29	Fail	94	Marginal	06AB17c	Living/Kitchen	63	Pass	100	Pass
04AB30	Bedroom	30	Fail	100	Pass	06AB18	Bedroom	52	Pass	100	Pass
D4AB31c	Living/Kitchen	80	Pass	100	Pass	06AB19	Bedroom	48	Marginal	100	Pass
04AB32	Bedroom	48	Marginal	100	Pass	06AB20c	Living/Kitchen	64	Pass	100	Pass
05AB01	Bedroom	60	Pass	100	Pass	06AB21	Bedroom	18	Fail	100	Pass
05AB02c	Living/Kitchen	98	Pass	100	Pass	06AB22	Bedroom	80	Pass	100	Pas
05AB03	Bedroom	65	Pass	100	Pass	06AB23	Bedroom	46	Marginal	100	Pase
05AB04	Bedroom	64	Pass	100	Pass	06AB24	Bedroom	37	Fail	98	Pas
05AB05c	Living/Kitchen	89	Pass	99	Pass	06AB25	Bedroom	45	Marginal	100	Pas
05AB06	Bedroom	33	Fail	100	Pass	06AB26	Bedroom	55	Pass	100	Pas
05AB07c	Living/Kitchen		Pass	100	Pass	06AB27	Bedroom	66	Pass	100	Pas
05AB08	Bedroom	62	Pass	100	Pass	06AB28c	Living/Kitchen	100	Pass	100	Pas
05AB09c	Living/Kitchen		Fail	74	Fail	06AB29	Bedroom	34	Fail	100	Pas
05AB10	Bedroom	70	Pass	100	Pass	06AB30	Bedroom	32	Fail	100	Pas
05AB11c	Living/Kitchen		Pass	100	Pass	06AB31c	Living/Kitchen	93	Pass	100	Pas
)5AB11c	Living/Kitchen		Marginal	100	Pass	06AB32	Bedroom	70	Pass	100	Pas
05AB120	Bedroom	61	Pass	100	Pass	07AB12c	Living/Kitchen	100	Pass	100	Pas
05AB15	Bedroom	100	Pass	100	Pass	07AB13	Bedroom	61	Pass	100	Pas
05AB14 05AB15c						07AB14	Bedroom	100	Pass	100	Pas
	Living/Kitchen		Pass	100	Pass	07AB15c	Living/Kitchen	100	Pass	100	Pas
05AB16	Bedroom	82	Pass	100	Pass	07AB16	Bedroom	100	Pass	100	Pas
05AB17c	Living/Kitchen		Pass	100	Pass	07AB17c	Living/Kitchen	64	Pass	100	Pas
05AB18	Bedroom	45	Marginal	100	Pass	07AB18	Bedroom	55	Pass	100	Pase
05AB19	Bedroom	42	Marginal	100	Pass	07AB19	Bedroom	51	Pass	100	Pase
05AB20c	Living/Kitchen	56	Pass	97	Pass	07AB20c	Living/Kitchen	72	Pass	100	Pase



Block AB – E_T results - Tabulated.

			For all ha	bitable rooms	
Median E	xternal Diffuse II	luminance	14,900	lx	
>50 %	6 of the points o	on a reference	e plane to e	exceed	
			EN17037		EN17037
		Percentage	Check	Percentage	Check
Ref	Туре	within 300lx	@ 50%	within 100lx	@ 95%
07AB21	Bedroom	100	Pass	100	Pass
08AB12c	Living/Kitchen		Pass	100	Pass
08AB13	Bedroom	61	Pass	100	Pass
08AB14	Bedroom	100	Pass	100	Pass
08AB15c	Living/Kitchen		Pass	100	Pass
08AB16	Bedroom	100	Pass	100	Pass
08AB17c	Living/Kitchen	68	Pass	100	Pass
08AB18	Bedroom	61	Pass	100	Pass
08AB19	Bedroom	52	Pass	100	Pass
08AB20c	Living/Kitchen	83	Pass	100	Pass
08AB21	Bedroom	100	Pass	100	Pass
09AB12c	Living/Kitchen	100	Pass	100	Pass
09AB13	Bedroom	63	Pass	100	Pass
09AB14	Bedroom	100	Pass	100	Pass
09AB15c	Living/Kitchen	100	Pass	100	Pass
09AB16	Bedroom	100	Pass	100	Pass
09AB17c	Living/Kitchen	71	Pass	100	Pass
09AB18	Bedroom	61	Pass	100	Pass
09AB19	Bedroom	56	Pass	100	Pass
09AB20c	Living/Kitchen	87	Pass	100	Pass
09AB21	Bedroom	100	Pass	100	Pass
10AB12c	Living/Kitchen	100	Pass	100	Pass
10AB13	Bedroom	64	Pass	100	Pass
10AB14	Bedroom	100	Pass	100	Pass
10AB15c	Living/Kitchen	100	Pass	100	Pass
10AB16	Bedroom	100	Pass	100	Pass
10AB17c	Living/Kitchen	75	Pass	100	Pass
10AB18	Bedroom	63	Pass	100	Pass
10AB19	Bedroom	57	Pass	100	Pass
10AB20c	Living/Kitchen		Pass	100	Pass
10AB21	Bedroom	100	Pass	100	Pass
11AB12c	Living/Kitchen		Pass	100	Pass
11AB13	Bedroom	54	Pass	100	Pass
11AB13	Bedroom	100	Pass	100	Pass
11AB15c	Living/Kitchen		Pass	100	Pass
11AB150 11AB16	Bedroom	100	Pass	100	Pass
	Living/Kitchen		Pass	100	Pass
11AB17c 11AB18	-	78			
	Bedroom	71	Pass	100	Pass
11AB19	Bedroom	63	Pass	100	Pass
11AB20c	Living/Kitchen		Pass	100	Pass
11AB21	Bedroom	100	Pass	100	Pass
		Count Pass	252 153	Count Pass	252 213
		Pass Pass Rate 3001x/50%	153 61%	Pass Pass Rate 100lx/95%	85%
		Marginal	24	Marginal	18
		Pass Margina		Pass Margina	92%

Block CD – E_T results - Tabulated.

			For all ha	bitable room	5		Minimun		-	bitable rooms	
	the second Difference in	L			,	Madian Fr	to an all Different III		14,900		
	xternal Diffuse II		14,900				ternal Diffuse II				
>50 %	6 of the points o	on a referenc		exceed		>50 %	of the points o	n a reference plane to		xceed	
Ref	Туре	Percentage within 300lx	EN17037 Check @ 50%	Percentage within 100b		Ref	Туре	Percentage within 300lx	EN17037 Check @ 50%	Percentage within 100lx	EN1703 Check @ 95%
01CD01		38	Fail	100							_
01CD01	Bedroom Living/Kitchen	67	Pass	100	Pass	02CD01	Bedroom	39	Fail	100	Pas
01CD02C	Bedroom	32	Fail	100	Pass	02CD02c	Living/Kitchen	78	Pass	100	Pas
01CD03	Living/Kitchen	24	Fail	100	Pass Pass	02CD03	Bedroom	37	Fail	100	Pas
01CD04C	Bedroom	24	Fail	78	Marginal	02CD04c	Living/Kitchen		Fail	100	Pas
01CD09c	Living/Kitchen	24	Fail	97	Pass	02CD05	Bedroom	29	Fail	100	Pas
01CD05C	Bedroom	20	Fail	100	Pass	02CD06c	Living/Kitchen		Fail	98	Pas
01CD10	Living/Kitchen	25	Fail	94	Marginal	02CD07	Bedroom	26	Fail	100	Pas
	_		Fail	100	_	02CD08	Bedroom	16	Fail	100	Pas
01CD12	Bedroom	21			Pass	02CD09c	Living/Kitchen	29	Fail	98	Pas
01CD13	Bedroom	20	Fail	95	Pass	02CD10	Bedroom	36	Fail	100	Pas
01CD14c	Living/Kitchen	43	Marginal	100	Pass	02CD11c	Living/Kitchen	18	Fail	96	Pas
01CD15	Bedroom	34	Fail	100	Pass	02CD12	Bedroom	25	Fail	98	Pas
01CD16	Living	50	Pass	88	Marginal	02CD13	Bedroom	30	Fail	100	Pas
01CD33	Bedroom	25	Fail	84	Marginal	02CD14c	Living/Kitchen		Fail	100	Pas
01CD34c	Living/Kitchen	28	Fail	87	Marginal	02CD15	Bedroom	33	Fail	100	Pas
01CD35	Bedroom	10	Fail	50	Fail	02CD16c	Living/Kitchen		Fail	100	Pas
01CD36	Bedroom	23	Fail	65	Fail	02CD10C	Bedroom	44	Marginal	100	Pas
01CD37c	Living/Kitchen	64	Pass	100	Pass	02CD17	Bedroom	63	Pass	100	Pas
01CD38	Bedroom	34	Fail	100	Pass						
01CD01	Bedroom	37	Fail	100	Pass	02CD19c	Living/Kitchen		Pass	100	Pas
01CD02c	Living/Kitchen	75	Pass	100	Pass	02CD20c	Living/Kitchen		Fail	100	Pas
01CD03	Bedroom	34	Fail	100	Pass	02CD21	Bedroom	33	Fail	100	Pas
01CD04c	Living/Kitchen	16	Fail	100	Pass	02CD22	Bedroom	20	Fail	94	Marg
01CD05	Bedroom	23	Fail	96	Pass	02CD23	Bedroom	27	Fail	98	Pas
01CD06c	Living/Kitchen	11	Fail	86	Marginal	02CD24c	Living/Kitchen	27	Fail	97	Pas
01CD07	Bedroom	21	Fail	100	Pass	02CD25	Bedroom	20	Fail	100	Pas
01CD08	Bedroom	3	Fail	95	Pass	02CD26	Bedroom	0	Fail	52	Fai
01CD09c	Living/Kitchen	24	Fail	95	Pass	02CD27c	Living/Kitchen	19	Fail	59	Fai
01CD10	Bedroom	29	Fail	100	Pass	02CD28	Bedroom	33	Fail	94	Margi
01CD11c	Living/Kitchen	15	Fail	97	Pass	02CD29	Bedroom	31	Fail	100	Pas
01CD12	Bedroom	25	Fail	96	Pass	02CD30c	Living/Kitchen	34	Fail	98	Pas
01CD13	Bedroom	29	Fail	100	Pass	02CD31	Bedroom	0	Fail	50	Fai
01CD14c	Living/Kitchen	35	Fail	100	Pass	02CD32	Bedroom	7	Fail	92	Marg
01CD15	Bedroom	31	Fail	100	Pass	02CD33	Bedroom	35	Fail	100	Pas
01CD16c	Living/Kitchen	25	Fail	100	Pass	02CD34c	Living/Kitchen		Fail	98	Pas
01CD17	Bedroom	41	Marginal	100	Pass	02CD34C		36	Fail	100	Pas
01CD18	Bedroom	52	Pass	100	Pass	02CD35	Bedroom Bedroom	29	Fail	100	
01CD19c	Living/Kitchen	95	Pass	100	Pass						Pas
01CD20c	Living/Kitchen	31	Fail	100	Pass	02CD37c	Living/Kitchen		Pass	100	Pas
01CD21	Bedroom	30	Fail	100	Pass	02CD38	Bedroom	37	Fail	100	Pas
01CD22	Bedroom	17	Fail	92	Marginal	03CD01	Bedroom	46	Marginal	100	Pas
01CD23	Bedroom	21	Fail	85	Marginal	03CD02c	Living/Kitchen		Pass	100	Pas
01CD24c	Living/Kitchen	22	Fail	94	Marginal	03CD03	Bedroom	43	Marginal	100	Pas
01CD25	Bedroom	11	Fail	100	Pass	03CD04c	Living/Kitchen	39	Fail	100	Pas
01CD26	Bedroom	0	Fail	42	Fail	03CD05	Bedroom	32	Fail	100	Pas
01CD27c	Living/Kitchen	17	Fail	54	Fail	03CD06c	Living/Kitchen	29	Fail	100	Pas
01CD28	Bedroom	29	Fail	79	Marginal	03CD07	Bedroom	30	Fail	100	Pas
01CD29	Bedroom	27	Fail	91	Marginal	03CD08	Bedroom	23	Fail	100	Pas
01CD30c	Living/Kitchen	30	Fail	97	Pass	03CD09c	Living/Kitchen		Fail	98	Pas
01CD31	Bedroom	14	Fail	66	Fail	03CD10	Bedroom	44	Marginal	100	Pas
01CD32	Bedroom	19	Fail	97	Pass	03CD11c	Living/Kitchen		Fail	98	Pas
01CD33	Bedroom	28	Fail	100	Pass	03CD112	Bedroom	30	Fail	100	Pas
01CD34c	Living/Kitchen	23	Fail	97	Pass						Pas
01CD35	Bedroom	21	Fail	100	Pass	03CD13	Bedroom	34	Fail	100	
01CD36	Bedroom	26	Fail	97	Pass	03CD14c	Living/Kitchen		Marginal	100	Pas
01CD37c	Living/Kitchen	70	Pass	100	Pass	03CD15	Bedroom	37	Fail	100	Pas
01CD38	Bedroom	29	Fail	100	Pass	03CD16c	Living/Kitchen		Fail	100	Pa
						03CD17	Bedroom	47	Marginal	100	Pas
						03CD18	Bedroom	63	Pass	100	Pas
						03CD19c	Living/Kitchen	98	Pass	100	Pas
					1	03CD20c	Living/Kitchen	28	Fail	100	Pas



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Block CD – E_T results - Tabulated.

			For all ha	bitable rooms					For all ha	bitable rooms	
Median E	xternal Diffuse II	luminance	14,900	lx		Median Ex	ternal Diffuse III	uminance	14,900	lx	
>50 %	6 of the points o	on a reference	e plane to e	exceed		>50 %	of the points o	n a reference	e plane to e	xceed	
			EN17037		EN17037				EN17037		EN1
		Percentage	Check	Percentage	Check			Percentage	Check	Percentage	Ch
Ref	Туре	within 300lx	@ 50%	within 100lx	@ 95%	Ref	Туре	within 300lx	@ 50%	within 100lx	@
03CD21	Bedroom	40	Marginal	100	Pass	05CD01	Bedroom	56	Pass	100	
03CD22	Bedroom	28	Fail	100	Pass	05CD02c	Living/Kitchen	95	Pass	100	
03CD23	Bedroom	32	Fail	100	Pass	05CD03	Bedroom	56	Pass	100	
03CD24c	Living/Kitchen	32	Fail	98	Pass	05CD04c	Living/Kitchen		Pass	100	
03CD25	Bedroom	29	Fail	100	Pass	05CD05	Bedroom	42	Marginal	100	
03CD26	Bedroom	0	Fail	66	Fail	05CD06c	Living/Kitchen	46	Marginal	100	
03CD27c	Living/Kitchen	22	Fail	63	Fail	05CD07	Bedroom	40	Marginal	100	
03CD28	Bedroom	37	Fail	100	Pass	05CD08	Bedroom	48	Marginal	100	
03CD29	Bedroom	37	Fail	100	Pass	05CD09c	Living/Kitchen		Pass	100	
03CD30c	Living/Kitchen	43	Marginal	100	Pass	05CD09C		66		100	
03CD31	Bedroom	28	Fail	100	Pass		Bedroom		Pass		
03CD32	Bedroom	47	Marginal	100	Pass	05CD11c	Living/Kitchen	39	Fail	100	
03CD33	Bedroom	39	Fail	100	Pass	05CD12	Bedroom	34	Fail	100	
03CD34c	Living/Kitchen	41	Marginal	100	Pass	05CD13	Bedroom	36	Fail	100	
03CD35	Bedroom	27	Fail	100	Pass	05CD14c	Living/Kitchen	59	Pass	100	
03CD36	Bedroom	33	Fail	100	Pass	05CD15	Bedroom	42	Marginal	100	
03CD37c	Living/Kitchen	77	Pass	100	Pass	05CD16c	Living/Kitchen		Marginal	100	
03CD38	Bedroom	39	Fail	100	Pass	05CD17	Bedroom	48	Marginal	100	
04CD01	Bedroom	54	Pass	100	Pass	05CD18	Bedroom	63	Pass	100	
04CD02c	Living/Kitchen	88	Pass	100	Pass	05CD19c	Living/Kitchen	98	Pass	100	
04CD03	Bedroom	50	Pass	100	Pass	05CD20c	Living/Kitchen	36	Fail	100	
04CD04c	Living/Kitchen	70	Pass	100	Pass	05CD21	Bedroom	61	Pass	100	
04CD05	Bedroom	39	Fail	100	Pass	05CD22	Bedroom	46	Marginal	100	
04CD06c	Living/Kitchen	35	Fail	100	Pass	05CD23	Bedroom	46	Marginal	100	
04CD07	Bedroom	36	Fail	100	Pass	05CD24c	Living/Kitchen	49	Marginal	98	
04CD08	Bedroom	36	Fail	100	Pass	05CD25	Bedroom	55	Pass	100	
04CD09c	Living/Kitchen	42	Marginal	98	Pass	05CD26	Bedroom	18	Fail	100	
04CD10	Bedroom	53	Pass	100	Pass	05CD27c	Living/Kitchen	30	Fail	81	M
04CD11c	Living/Kitchen	32	Fail	100	Pass	05CD28	Bedroom	46	Marginal	100	
04CD112	Bedroom	33	Fail	100	Pass	05CD29	Bedroom	52	Pass	100	
04CD12	Bedroom	34	Fail	100	Pass	05CD30c	Living/Kitchen	44	Marginal	100	
04CD14c	Living/Kitchen	49	Marginal	100	Pass	05CD31	Bedroom	45	Marginal	100	
04CD15	Bedroom	42	Marginal	100	Pass	05CD32	Bedroom	73	Pass	100	
04CD16c	Living/Kitchen	22	Fail	100	Pass	05CD33	Bedroom	50	Pass	100	
04CD17	Bedroom	48	Marginal	100	Pass	05CD34c	Living/Kitchen		Pass	99	
04CD18	Bedroom	62	Pass	100	Pass	05CD35	Bedroom	61	Pass	100	
04CD19c	Living/Kitchen	99	Pass	100	Pass	05CD35	Bedroom	39	Fail	100	
04CD20c	Living/Kitchen	26	Fail	100	Pass	05CD37c	Living/Kitchen	88	Pass	100	
04CD200	Bedroom	47	Marginal	100	Pass						
04CD21	Bedroom	35	Fail	100	Pass	05CD38	Bedroom	48	Marginal	100	
04CD22 04CD23	Bedroom	38	Fail	100	Pass	06CD01	Bedroom	63	Pass	100	
04CD23	Living/Kitchen	41	Marginal	98	Pass	06CD02c	Living/Kitchen	97	Pass	100	
04CD24C	Bedroom	41	Marginal	100	Pass	06CD03	Bedroom	55	Pass	100	
04CD25	Bedroom	9	Fail	84	Marginal	06CD04c	Living/Kitchen		Pass	100	
04CD26 04CD27c	Living/Kitchen	26	Fail	70	Fail	06CD05	Bedroom	45	Marginal	100	
04CD27C	Bedroom	43	Marginal	100		06CD06c	Living/Kitchen		Fail	100	
04CD28	Bedroom	43	Marginal	100	Pass Pass	06CD07	Bedroom	40	Marginal	100	
						06CD08	Bedroom	67	Pass	100	
04CD30c	Living/Kitchen Bedroom	46 °	Marginal	100	Pass	06CD09c	Living/Kitchen	60	Pass	100	
04CD31	Bedroom	8	Fail	83	Marginal	06CD10	Bedroom	76	Pass	100	
04CD32		24	Fail	100	Pass	06CD11c	Living/Kitchen	54	Pass	100	
04CD33	Bedroom	44	Marginal	100	Pass	06CD12	Bedroom	36	Fail	100	
04CD34c	Living/Kitchen	53	Pass	99	Pass	06CD13	Bedroom	40	Marginal	100	
04CD35	Bedroom	60	Pass	100	Pass	06CD14c	Living/Kitchen	56	Pass	100	
04CD36	Bedroom	34	Fail	100	Pass	06CD15	Bedroom	44	Marginal	100	
04CD37c	Living/Kitchen	78	Pass	100	Pass	06CD16c	Living/Kitchen		Fail	100	
04CD38	Bedroom	45	Marginal	100	Pass	06CD17	Bedroom	50	Pass	100	
						06CD18	Bedroom	63	Pass	100	
						06CD19c	Living/Kitchen		Pass	100	
						0000100				100	

Block CD – E_T results - Tabulated.

			For all hal	bitable rooms	
Median Ex	ternal Diffuse III	uminance	14,900	lx	
>50 %	of the points o	n a reference	e plane to e	xceed	
			EN17037		EN17037
		Percentage	Check	Percentage	Check
Ref	Туре	within 300lx	@ 50%	within 100lx	@ 95%
06CD21	Bedroom	85	Pass	100	Pass
06CD22	Bedroom	61	Pass	100	Pass
06CD23	Bedroom	56	Pass	100	Pass
06CD24c	Living/Kitchen	63	Pass	100	Pass
06CD25	Bedroom	85	Pass	100	Pass
06CD26	Bedroom	25	Fail	100	Pass
06CD27c	Living/Kitchen	35	Fail	95	Pass
06CD28	Bedroom	76	Pass	100	Pass
06CD29	Bedroom	54	Pass	100	Pass
06CD30c	Living/Kitchen	56	Pass	100	Pass
06CD31	Bedroom	38	Fail	100	Pass
06CD32	Bedroom	69	Pass	100	Pass
06CD33	Bedroom	79	Pass	100	Pass
06CD34c	Living/Kitchen	56	Pass	100	Pass
06CD35	Bedroom	50	Pass	100	Pass
06CD36	Bedroom	37	Fail	100	Pass
06CD37c	Living/Kitchen	90	Pass	100	Pass
06CD38	Bedroom	53	Pass	100	Pass
07CD12	Bedroom	36	Fail	100	Pass
07CD13	Bedroom	40	Marginal	100	Pass
07CD14c	Living/Kitchen	44	Marginal	100	Pass
07CD15	Bedroom	41	Marginal	100	Pass
07CD16c	Living/Kitchen	28	Fail	100	Pass
07CD17	Bedroom	50	Pass	100	Pass
07CD18	Bedroom	59	Pass	100	Pass
07CD19c	Living/Kitchen	98	Pass	100	Pass
07CD20c	Living/Kitchen	46	Marginal	100	Pass
07CD21	Bedroom	100	Pass	100	Pass
07CD22	Bedroom	67	Pass	100	Pass
07CD23	Bedroom	58	Pass	100	Pass
07CD24c	Living/Kitchen	60	Pass	100	Pass
07CD25	Bedroom	57	Pass	100	Pass
07CD26	Bedroom	35	Fail	100	Pass
07CD27c	Living/Kitchen	72	Pass	100	Pass
		Count	263	Count	263
		Pass	77	Pass	235
		Pass Rate		Pass Rate	
		300lx/50%	29%	100lx/95%	89%
		Marginal	46	Marginal	17 a 96%



Block EF – E_T results - Tabulated.

Ref D0EF01 Bedr D0EF02 Livin D0EF03 Bedr D0EF03 Bedr D0EF04 Livin D0EF05 Bedr D0EF061 Livin D0EF07 Bedr D0EF08 Livin D0EF37 Bedr D0EF38 Livin D0EF40 Bedr D0EF41 Livin D0EF42 Bedr D1EF01 Bedr D1EF03 Bedr D1EF04 Livin D1EF05 Bedr D1EF06 Livin D1EF07 Bedr D1EF08 Bedr D1EF08 Bedr D1EF10 Bedr D1EF11 Bedr D1EF13 Bedr D1EF14 Bedr D1EF15 Livin D1EF16 Bedr D1EF17 Bedr D1EF18 Livin D1EF19 <t< th=""><th>type droom ing/Kitchen droom ing/Kitchen droom</th><th>uminance n a reference within 300lx 35 76 29 26 0 58 24 17 0 58 24 17 0 15 61 29 34 7 4 34 74 34 28 33 7 32 18</th><th>14,900</th><th>Percentage within 100/x 100 94 69 32 86 32 88 83 81 22 57 100 100 100 100 100 100 100 100 74 100</th><th>EN17037 Check @ 95% Pass Pass Marginal Fail Marginal Marginal Marginal Fail Pass Pass Pass Pass Pass Fail</th><th></th><th>xternal Diffuse II 6 of the points of 8 edroom Living/Kitchen 8 edroom Living/Kitchen 8 edroom 8 edroom 8 edroom Living/Kitchen 8 edroom 8 edroom 8 edroom 8 edroom 8 edroom 8 edroom 8 edroom</th><th></th><th>14,900</th><th></th><th>EN1703 Check @ 95% Pass Pass Fail Pass Margina Pass Pass Pass Pass</th></t<>	type droom ing/Kitchen droom ing/Kitchen droom	uminance n a reference within 300lx 35 76 29 26 0 58 24 17 0 58 24 17 0 15 61 29 34 7 4 34 74 34 28 33 7 32 18	14,900	Percentage within 100/x 100 94 69 32 86 32 88 83 81 22 57 100 100 100 100 100 100 100 100 74 100	EN17037 Check @ 95% Pass Pass Marginal Fail Marginal Marginal Marginal Fail Pass Pass Pass Pass Pass Fail		xternal Diffuse II 6 of the points of 8 edroom Living/Kitchen 8 edroom Living/Kitchen 8 edroom 8 edroom 8 edroom Living/Kitchen 8 edroom 8 edroom 8 edroom 8 edroom 8 edroom 8 edroom 8 edroom		14,900		EN1703 Check @ 95% Pass Pass Fail Pass Margina Pass Pass Pass Pass
>50 % of the Ref D0EF01 Bedr D0EF02 Livin D0EF03 Bedr D0EF04 Livin D0EF05 Bedr D0EF061 Livin D0EF07 Bedr D0EF08 Livin D0EF05 Bedr D0EF06 Livin D0EF37 Bedr D0EF41 Livin D0EF42 Bedr D1EF03 Bedr D1EF04 Livin D1EF05 Bedr D1EF06 Livin D1EF07 Bedr D1EF08 Bedr D1EF07 Bedr D1EF08 Bedr D1EF09 Livin D1EF10 Bedr D1EF11 Bedr D1EF13 Bedr D1EF14 Bedr D1EF15 Livin D1EF17 Bedr D1EF18 Livin D1EF19 Bedr	he points o Type droom ing/Kitchen droom ing/Kitchen droom droom droom droom droom ing/Kitchen droom ing/Kitchen droom ing/Kitchen droom ing/Kitchen droom ing/Kitchen droom	Percentage within 3001x 35 76 29 26 0 58 24 17 0 15 61 29 34 74 34 28 33 7 32 18	e plane to o EN17037 Check @ 50% Fail Pass Fail Fail Fail Fail Fail Fail Fail Fail	Percentage within 100/x 100 94 69 32 86 32 88 83 81 22 57 100 100 100 100 100 100 100 100 74 100	Check @ 95% Pass Marginal Fail Marginal Marginal Marginal Fail Fail Pass Pass Pass Pass Pass	>50 % Ref 02EF01 02EF02c 02EF03 02EF03 02EF04c 02EF05 02EF05 02EF07 02EF08 02EF09c 02EF10 02EF11 02EF12 02EF13 02EF14	Type Bedroom Living/Kitchen Bedroom Living/Kitchen Bedroom Living/Kitchen Bedroom Living/Kitchen Bedroom Living/Kitchen Bedroom Bedroom	Percentage within 300lx 38 85 37 32 13 16 38 31 31 31 29 32 29 32 29	e plane to e EN17037 Check @ 50% Fail Pass Fail Fail Fail Fail Fail Fail Fail Fail	Percentage within 100lx 100 100 100 74 100 94 100 100 96 90 100	Check @ 95% Pass Pass Fail Pass Margina Pass Pass Pass Margina Pass
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D0EF05 Bedr 00EF061 Livin 00EF37 Bedr 00EF38 Livin 00EF39 Bedr 00EF39 Bedr 00EF39 Bedr 00EF40 Bedr 00EF41 Livin 00EF42 Bedr 01EF01 Bedr 01EF03 Bedr 11EF04 Livin 01EF05 Bedr 11EF04 Livin 01EF05 Bedr 11EF06 Livin 01EF07 Bedr 01EF08 Bedr 01EF07 Bedr 01EF08 Bedr 01EF10 Bedr 01EF11 Bedr 01EF12 Bedr 01EF13 Bedr 01EF14 Bedr 01EF15 Livin 01EF16 Bedr 01EF17 Bedr 01EF20 Bedr 01EF21 Bedr	droom ing droom ing/Kitchen droom droom droom ing/Kitchen droom ing/Kitchen droom ing/Kitchen droom ing/Kitchen droom ing/Kitchen	0 58 24 17 0 15 61 29 34 74 34 28 33 7 32 18	Fail Pass Fail Fail Fail Pass Fail Fail Fail Fail Fail Fail Fail	32 86 83 81 22 57 100 100 100 100 100 74 100	Fail Marginal Marginal Fail Pass Pass Pass Pass Pass	02EF05 02EF06c 02EF07 02EF08 02EF09c 02EF10 02EF11 02EF12 02EF13 02EF14	Bedroom Living/Kitchen Bedroom Living/Kitchen Bedroom Bedroom Bedroom Bedroom	13 16 38 31 31 29 32 29	Fail Fail Fail Fail Fail Fail Fail	100 94 100 96 90 100	Pass Margina Pass Pass Pass Margina Pass
00EF06I Livin 00EF37 Bedr 00EF38 Livin 00EF39 Bedr 00EF39 Bedr 00EF40 Bedr 00EF41 Livin 00EF42 Bedr 01EF01 Bedr 01EF03 Bedr 01EF03 Bedr 01EF03 Bedr 01EF03 Bedr 01EF04 Livin 01EF05 Bedr 01EF06 Livin 01EF07 Bedr 01EF08 Bedr 01EF09 Livin 01EF10 Bedr 01EF11 Bedr 01EF12 Bedr 01EF13 Bedr 01EF14 Bedr 01EF15 Livin 01EF16 Bedr 01EF17 Bedr 01EF20 Bedr 01EF21 Bedr 01EF20 Bedr 01EF21 Bedr	ing droom ing/Kitchen droom droom droom droom ing/Kitchen droom ing/Kitchen droom ing/Kitchen droom droom ing/Kitchen	58 24 17 0 15 61 29 34 74 34 28 33 7 32 18	Pass Fail Fail Fail Pass Fail Fail Fail Fail Fail Fail Fail	86 83 81 22 57 100 100 100 100 100 74 100	Marginal Marginal Fail Fail Pass Pass Pass Pass Pass	02EF06c 02EF07 02EF08 02EF09c 02EF10 02EF11 02EF12 02EF13 02EF14	Living/Kitchen Bedroom Bedroom Living/Kitchen Bedroom Bedroom Bedroom Bedroom	16 38 31 31 29 32 29	Fail Fail Fail Fail Fail Fail	94 100 100 96 90 100	Margina Pass Pass Margina Pass
D0EF37 Bedr 00EF38 Livin 00EF39 Bedr 00EF39 Bedr 00EF40 Bedr 00EF41 Livin 00EF42 Bedr 00EF41 Livin 00EF42 Bedr 01EF01 Bedr 01EF03 Bedr 01EF03 Bedr 01EF04 Livin 01EF05 Bedr 01EF06 Livin 01EF07 Bedr 01EF08 Bedr 01EF10 Bedr 01EF11 Bedr 01EF12 Bedr 01EF13 Bedr 01EF14 Bedr 01EF15 Livin 01EF16 Bedr 01EF17 Bedr 01EF18 Livin 01EF19 Bedr 01EF20 Bedr 01EF21 Bedr 01EF22 Livin 01EF23 Bedr	droom ing/Kitchen droom droom droom droom ing/Kitchen droom ing/Kitchen droom droom droom droom ing/Kitchen	24 17 0 15 61 29 34 74 34 28 33 7 32 18	Fail Fail Fail Pass Fail Fail Pass Fail Fail Fail Fail Fail	83 81 22 57 100 100 100 100 100 74 100	Marginal Marginal Fail Pass Pass Pass Pass Pass	02EF07 02EF08 02EF09c 02EF10 02EF11 02EF12 02EF13 02EF14	Bedroom Bedroom Living/Kitchen Bedroom Bedroom Bedroom	38 31 31 29 32 29	Fail Fail Fail Fail Fail	100 100 96 90 100	Pass Pass Pass Margina Pass
0EF38c Livin 00EF39 Bedr 00EF40 Bedr 00EF41c Livin 00EF41c Livin 00EF41c Livin 00EF41c Livin 00EF41c Livin 00EF41c Livin 00EF41 Bedr 01EF03 Bedr 01EF05 Bedr 01EF07 Bedr 01EF08 Bedr 01EF07 Bedr 01EF08 Bedr 01EF10 Bedr 01EF11 Bedr 01EF12 Bedr 01EF13 Bedr 01EF14 Bedr 01EF15 Livin 01EF16 Bedr 01EF17 Bedr 01EF20 Bedr 01EF19 Bedr 01EF20 Bedr 01EF21 Bedr 01EF21 Bedr 01EF22 Livin 01EF24 Bedr	ing/Kitchen droom droom droom droom droom ing/Kitchen droom ing/Kitchen droom droom droom ing/Kitchen	17 0 15 61 29 34 74 34 28 33 7 7 32 18	Fail Fail Pass Fail Fail Pass Fail Fail Fail Fail	81 22 57 100 100 100 100 100 74 100	Marginal Fail Fail Pass Pass Pass Pass Pass Pass	02EF08 02EF09c 02EF10 02EF11 02EF12 02EF13 02EF14	Bedroom Living/Kitchen Bedroom Bedroom Bedroom	31 31 29 32 29	Fail Fail Fail Fail	100 96 90 100	Pass Pass Margina Pass
D0EF39 Bedr D0EF40 Bedr D0EF41 Livin D0EF42 Bedr D0EF41 Livin D0EF41 Bedr D1EF01 Bedr D1EF03 Bedr D1EF03 Bedr D1EF05 Bedr D1EF06 Livin D1EF07 Bedr D1EF08 Bedr D1EF10 Bedr D1EF11 Bedr D1EF12 Bedr D1EF13 Bedr D1EF14 Bedr D1EF15 Livin D1EF16 Bedr D1EF17 Bedr D1EF18 Livin D1EF19 Bedr D1EF19 Bedr D1EF19 Bedr D1EF19 Bedr D1EF19 Bedr D1EF20 Bedr D1EF21 Bedr D1EF22 Livin D1EF23 Bedr D1	droom droom ing/Kitchen droom ing/Kitchen droom ing/Kitchen droom droom droom ing/Kitchen	0 15 61 29 34 74 34 28 33 7 7 32 18	Fail Fail Pass Fail Pass Fail Fail Fail Fail Fail	22 57 100 100 100 100 100 74 100	Fail Fail Pass Pass Pass Pass Pass	02EF09c 02EF10 02EF11 02EF12 02EF13 02EF14	Living/Kitchen Bedroom Bedroom Bedroom Bedroom	31 29 32 29	Fail Fail Fail	96 90 100	Pass Margina Pass
D0EF40 Bedr 00EF41c Livin 00EF41c Livin 00EF41c Livin 00EF41c Livin 00EF41c Livin 01EF01 Bedr 1EF02c Livin 01EF03 Bedr 1EF04c Livin 01EF05 Bedr 01EF07 Bedr 01EF08 Bedr 01EF10 Bedr 01EF11 Bedr 01EF12 Bedr 01EF13 Bedr 01EF14 Bedr 01EF15 Livin 01EF16 Bedr 01EF17 Bedr 01EF18 Livin 01EF19 Bedr 01EF10 Bedr 01EF11 Bedr 01EF12 Bedr 01EF13 Bedr 01EF14 Livin 01EF15 Bedr 01EF20 Bedr 01EF21 Bedr	droom ing/Kitchen droom droom ing/Kitchen droom ing/Kitchen droom droom ing/Kitchen ing/Kitchen	15 61 29 34 74 34 28 33 7 32 18	Fail Pass Fail Fail Pass Fail Fail Fail Fail	57 100 100 100 100 100 74 100	Fail Pass Pass Pass Pass Pass	02EF10 02EF11 02EF12 02EF13 02EF14	Bedroom Bedroom Bedroom Bedroom	29 32 29	Fail Fail	90 100	Pass
0EF41c Livin 00EF42 Bedr 01EF01 Bedr 01EF03 Bedr 01EF03 Bedr 01EF03 Bedr 01EF03 Bedr 01EF05 Bedr 01EF05 Bedr 01EF07 Bedr 01EF08 Bedr 01EF09 Livin 01EF10 Bedr 01EF11 Bedr 01EF12 Bedr 01EF13 Bedr 01EF14 Bedr 01EF15 Livin 01EF16 Bedr 01EF17 Bedr 01EF18 Livin 01EF19 Bedr 01EF19 Bedr 01EF10 Bedr 01EF11 Bedr 01EF12 Bedr 01EF13 Bedr 01EF14 Bedr 01EF20 Bedr 01EF21 Bedr 01EF22 Livin 01E	ing/Kitchen droom droom ing/Kitchen droom ing/Kitchen droom droom ing/Kitchen ing/Kitchen	61 29 34 74 34 28 33 7 32 18	Pass Fail Fail Pass Fail Fail Fail Fail	100 100 100 100 100 74 100	Pass Pass Pass Pass Pass	02EF12 02EF13 02EF14	Bedroom Bedroom	29			Pass
D0EF42 Bedr D1EF01 Bedr D1EF03 Bedr D1EF03 Bedr D1EF03 Bedr D1EF05 Bedr D1EF05 Bedr D1EF05 Bedr D1EF05 Bedr D1EF07 Bedr D1EF08 Bedr D1EF09 Livin D1EF10 Bedr D1EF11 Bedr D1EF13 Bedr D1EF14 Bedr D1EF15 Livin D1EF16 Bedr D1EF17 Bedr D1EF18 Livin D1EF19 Bedr D1EF19 Bedr D1EF19 Bedr D1EF19 Bedr D1EF19 Bedr D1EF19 Bedr D1EF20 Bedr D1EF21 Bedr D1EF22 Livin D1EF23 Bedr D1EF24 Bedr D1EF	droom droom ing/Kitchen droom ing/Kitchen droom droom ing/Kitchen ing/Kitchen	29 34 74 34 28 33 7 32 18	Fail Fail Pass Fail Fail Fail Fail	100 100 100 100 74 100	Pass Pass Pass Pass	02EF13 02EF14	Bedroom		Fail	95	Dace
DIEF01 Bedr 1EF02 Livin DIEF03 Bedr 1EF04c Livin DIEF05 Bedr 1EF06c Livin DIEF07 Bedr DIEF08 Bedr DIEF07 Bedr DIEF08 Bedr DIEF10 Bedr DIEF11 Bedr DIEF12 Bedr DIEF13 Bedr DIEF14 Bedr DIEF15 Livin DIEF16 Bedr DIEF17 Bedr DIEF18 Bedr DIEF19 Bedr DIEF19 Bedr DIEF19 Bedr DIEF19 Bedr DIEF20 Bedr DIEF21 Bedr DIEF20 Bedr DIEF21 Bedr DIEF22 Livin DIEF23 Bedr DIEF24 Bedr DIEF25 Bedr DIEF	droom ing/Kitchen droom ing/Kitchen droom droom droom ing/Kitchen	34 74 34 28 33 7 32 18	Fail Pass Fail Fail Fail Fail	100 100 100 74 100	Pass Pass Pass	02EF13 02EF14	Bedroom				L 0 2 2
1EF02c Livin 01EF03 Bedr 1EF04c Livin 01EF05 Bedr 1EF06c Livin 01EF07 Bedr 01EF08 Bedr 01EF07 Bedr 01EF08 Bedr 01EF09c Livin 01EF10 Bedr 01EF11 Bedr 01EF12 Bedr 01EF13 Bedr 01EF14 Bedr 01EF15c Livin 01EF16 Bedr 01EF17 Bedr 01EF18 Livin 01EF19 Bedr 01EF10 Bedr 01EF11 Bedr 01EF20 Bedr 01EF21 Bedr 01EF21 Bedr 01EF21 Bedr 01EF22 Livin 01EF23 Bedr 01EF24 Bedr 01EF25 Bedr 01EF26c Livin <	ing/Kitchen droom ing/Kitchen droom droom droom ing/Kitchen	74 34 28 33 7 32 18	Pass Fail Fail Fail Fail	100 100 74 100	Pass Pass	02EF14			Fail	100	Pass
DIEF03 Bedr DIEF04 Livin DIEF05 Bedr DIEF06 Livin DIEF07 Bedr DIEF08 Bedr DIEF07 Bedr DIEF08 Bedr DIEF09 Livin DIEF10 Bedr DIEF11 Bedr DIEF12 Bedr DIEF13 Bedr DIEF14 Bedr DIEF15 Livin DIEF16 Bedr DIEF17 Bedr DIEF18 Bedr DIEF19 Bedr DIEF19 Bedr DIEF19 Bedr DIEF19 Bedr DIEF20 Bedr DIEF21 Bedr DIEF21 Bedr DIEF22 Livin DIEF23 Bedr DIEF24 Bedr DIEF25 Bedr DIEF26 Livin DIEF27 Bedr	droom ing/Kitchen droom ing/Kitchen droom droom ing/Kitchen	34 28 33 7 32 18	Fail Fail Fail Fail	100 74 100	Pass		Bedroom	26	Fail	58	Fail
1EF04c Livin D1EF05 Bedr 1EF06c Livin D1EF07 Bedr D1EF08 Bedr D1EF09 Livin D1EF08 Bedr D1EF10 Bedr D1EF11 Bedr D1EF12 Bedr D1EF13 Bedr D1EF14 Bedr D1EF15 Livin D1EF16 Bedr D1EF17 Bedr D1EF18 Livin D1EF19 Bedr D1EF10 Bedr D1EF11 Bedr D1EF12 Bedr D1EF13 Bedr D1EF14 Bedr D1EF15 Livin D1EF21 Bedr D1EF22 Livin D1EF23 Bedr D1EF24 Bedr D1EF25 Bedr D1EF26c Livin D1EF27 Bedr	ing/Kitchen droom ing/Kitchen droom droom ing/Kitchen	28 33 7 32 18	Fail Fail Fail	74 100		UZEF13C	Living/Kitchen	17	Fail	75	Fail
DIEF05 Bedr 1EF06c Livin DIEF07 Bedr DIEF08 Bedr DIEF09c Livin DIEF10 Bedr DIEF11 Bedr DIEF12 Bedr DIEF13 Bedr DIEF14 Bedr DIEF15c Livin DIEF16 Bedr DIEF17 Bedr DIEF18 Livin DIEF19 Bedr DIEF10 Bedr DIEF11 Bedr DIEF12 Bedr DIEF14 Bedr DIEF15 Livin DIEF20 Bedr DIEF21 Bedr DIEF22 Livin DIEF23 Bedr DIEF24 Bedr DIEF25 Bedr DIEF26c Livin DIEF27 Bedr DIEF28 Bedr	droom ing/Kitchen droom droom ing/Kitchen	33 7 32 18	Fail Fail	100		02EF16	Bedroom	3	Fail	51	Fail
1EF06c Livin 01EF07 Bedr 01EF08 Bedr 01EF09c Livin 01EF10 Bedr 01EF11 Bedr 01EF12 Bedr 01EF13 Bedr 01EF14 Bedr 01EF15c Livin 01EF16 Bedr 01EF17 Bedr 01EF18 Livin 01EF19 Bedr 01EF10 Bedr 01EF17 Bedr 01EF18 Livin 01EF19 Bedr 01EF20 Bedr 01EF21 Bedr 01EF22 Livin 01EF24 Bedr 01EF25 Bedr 01EF26c Livin 01EF27 Bedr 01EF28 Bedr	ing/Kitchen droom droom ing/Kitchen	7 32 18	Fail		Pass	02EF17	Bedroom	0	Fail	73	Fail
D1EF07 Bedr D1EF08 Bedr D1EF09 Livin D1EF10 Bedr D1EF11 Bedr D1EF12 Bedr D1EF13 Bedr D1EF14 Bedr D1EF15 Livin D1EF16 Bedr D1EF17 Bedr D1EF18 Livin D1EF19 Bedr D1EF17 Bedr D1EF18 Livin D1EF19 Bedr D1EF17 Bedr D1EF18 Livin D1EF20 Bedr D1EF21 Bedr D1EF20 Bedr D1EF21 Bedr D1EF22 Livin D1EF23 Bedr D1EF24 Bedr D1EF25 Bedr D1EF26 Livin D1EF27 Bedr D1EF28 Bedr	droom droom ing/Kitchen	32 18		53	Fail	02EF18c	Living/Kitchen	19	Fail	90	Margina
D1EF08 Bedr 1EF09c Livin D1EF10 Bedr D1EF11 Bedr D1EF12 Bedr D1EF13 Bedr D1EF14 Bedr D1EF15 Livin D1EF16 Bedr D1EF17 Bedr D1EF17 Bedr D1EF18 Livin D1EF19 Bedr D1EF17 Bedr D1EF18 Livin D1EF20 Bedr D1EF21 Bedr D1EF20 Bedr D1EF21 Bedr D1EF22 Livin D1EF23 Bedr D1EF24 Bedr D1EF25 Bedr D1EF26c Livin D1EF27 Bedr D1EF28 Bedr	droom ing/Kitchen	18		100	Pass	02EF19	Bedroom	15	Fail	73	Fail
1EF09c Livin 01EF10 Bedr 01EF11 Bedr 01EF12 Bedr 01EF13 Bedr 01EF14 Bedr 01EF15 Livin 01EF16 Bedr 01EF17 Bedr 01EF18 Livin 01EF19 Bedr 01EF17 Bedr 01EF18 Livin 01EF19 Bedr 01EF20 Bedr 01EF20 Bedr 01EF20 Bedr 01EF21 Bedr 01EF20 Bedr 01EF21 Bedr 01EF22 Livin 01EF23 Bedr 01EF24 Bedr 01EF25 Bedr 01EF26c Livin 01EF27 Bedr 01EF28 Bedr	ing/Kitchen		Fail	100	Pass	02EF20	Bedroom	18	Fail	85	Margina
D1EF10 Bedr D1EF11 Bedr D1EF12 Bedr D1EF13 Bedr D1EF14 Bedr D1EF15 Livin D1EF16 Bedr D1EF17 Bedr D1EF16 Bedr D1EF17 Bedr D1EF18 Livin D1EF19 Bedr D1EF20 Bedr D1EF21 Bedr D1EF22 Livin D1EF23 Bedr D1EF24 Bedr D1EF25 Bedr D1EF25 Bedr D1EF25 Bedr D1EF25 Bedr D1EF25 Bedr D1EF26 Livin D1EF27 Bedr D1EF28 Bedr	-	10	Fail	91	Marginal	02EF21	Bedroom	56	Pass	100	Pass
DIEF11 Bedr DIEF12 Bedr DIEF13 Bedr DIEF14 Bedr DIEF15 Livin DIEF16 Bedr DIEF17 Bedr DIEF16 Bedr DIEF17 Bedr DIEF18 Livin DIEF20 Bedr DIEF21 Bedr DIEF22 Livin DIEF23 Livin DIEF24 Bedr DIEF25 Bedr DIEF26 Livin DIEF27 Bedr DIEF28 Bedr	aroom	24	Fail	77	Marginal	02EF22c	Living/Kitchen	100	Pass	100	Pass
D1EF12 Bedr D1EF13 Bedr D1EF14 Bedr D1EF15 Livin D1EF16 Bedr D1EF17 Bedr D1EF18 Livin D1EF19 Bedr D1EF10 Bedr D1EF12 Bedr D1EF20 Bedr D1EF21 Bedr D1EF22 Livin D1EF23 Leivin D1EF25 Bedr D1EF25 Bedr D1EF25 Bedr D1EF25 Bedr D1EF25 Bedr D1EF26 Livin D1EF27 Bedr D1EF28 Bedr	droom	27	Fail	100	Pass	02EF23c	Living/Kitchen	70	Pass	100	Pass
D1EF13 Bedr D1EF14 Bedr D1EF15 Livin D1EF16 Bedr D1EF17 Bedr D1EF18 Livin D1EF19 Bedr D1EF10 Bedr D1EF12 Bedr D1EF20 Bedr D1EF21 Bedr D1EF22 Livin D1EF23 Bedr D1EF24 Bedr D1EF25 Bedr D1EF26 Livin D1EF27 Bedr D1EF28 Bedr	droom	21	Fail	83	Marginal	02EF24	Bedroom	36	Fail	100	Pass
D1EF14 Bedr 1EF15c Livin D1EF16 Bedr D1EF17 Bedr D1EF18c Livin D1EF19 Bedr D1EF10 Bedr D1EF12 Bedr D1EF20 Bedr D1EF21 Bedr D1EF22 Livin D1EF23 Bedr D1EF24 Bedr D1EF25 Bedr D1EF25 Bedr D1EF26 Livin D1EF27 Bedr D1EF28 Bedr	droom	31	Fail	100	Pass	02EF25	Bedroom	55	Pass	100	Pass
1EF15c Livin D1EF16 Bedr D1EF17 Bedr D1EF18c Livin D1EF19 Bedr D1EF10 Bedr D1EF11 Bedr D1EF20 Bedr D1EF21 Bedr D1EF22 Livin D1EF23 Livin D1EF24 Bedr D1EF25 Bedr D1EF25 Bedr D1EF26 Livin D1EF27 Bedr D1EF28 Bedr	droom	21	Fail	56	Fail	02EF26c	Living/Kitchen	80	Pass	100	Pass
D1EF16 Bedr D1EF17 Bedr D1EF18 Livin D1EF19 Bedr D1EF20 Bedr D1EF21 Bedr D1EF22 Livin D1EF23 Livin D1EF24 Bedr D1EF25 Bedr D1EF25 Bedr D1EF25 Bedr D1EF25 Bedr D1EF25 Bedr D1EF26 Livin D1EF27 Bedr D1EF28 Bedr	ing/Kitchen	15	Fail	75	Fail	02EF27	Bedroom	59	Pass	100	Pass
D1EF17 Bedr 1EF18c Livin D1EF19 Bedr D1EF20 Bedr D1EF21 Bedr D1EF22 Livin D1EF23c Livin D1EF24 Bedr D1EF25 Bedr D1EF24 Bedr D1EF25 Bedr D1EF25 Bedr D1EF26c Livin D1EF27 Bedr D1EF28 Bedr	droom	0	Fail	33	Fail	02EF28	Bedroom	32	Fail	98	Pass
1EF18c Livin 01EF19 Bedr 01EF20 Bedr 01EF21 Bedr 01EF22 Livin 1EF23c Livin 01EF24 Bedr 01EF25 Bedr 01EF26 Livin 01EF27 Bedr 01EF28 Bedr	droom	7	Fail	77	Marginal	02EF29c	Living/Kitchen	60	Pass	100	Pass
D1EF19 Bedr D1EF20 Bedr D1EF21 Bedr D1EF21 Bedr D1EF22 Livin D1EF23 Livin D1EF24 Bedr D1EF25 Bedr D1EF25 Bedr D1EF25 Bedr D1EF26 Livin D1EF27 Bedr D1EF28 Bedr	ing/Kitchen	20	Fail	88	Marginal	02EF30	Bedroom	55	Pass	100	Pass
D1EF20 Bedr D1EF21 Bedr 1EF22c Livin 1EF23c Livin D1EF24 Bedr D1EF25 Bedr D1EF26c Livin D1EF27 Bedr D1EF28 Bedr	droom	16	Fail	74	Fail	02EF31	Bedroom	70	Pass	100	Pass
D1EF21 Bedr 1EF22c Livin 1EF23c Livin D1EF24 Bedr D1EF25 Bedr D1EF26 Livin D1EF27 Bedr D1EF28 Bedr	droom	18	Fail	85	Marginal	02EF32c	Living/Kitchen	39	Fail	95	Pass
1EF22cLivin1EF23cLivin01EF24Bedr01EF25Bedr1EF26cLivin01EF27Bedr01EF28Bedr	droom	50	Pass	100	Pass	02EF33c	Living/Kitchen	49	Marginal	100	Pass
1EF23cLivinD1EF24BedrD1EF25Bedr1EF26cLivinD1EF27BedrD1EF28Bedr	ing/Kitchen	95	Pass	100	Pass	02EF34	Bedroom	57	Pass	100	Pass
01EF24 Bedr 01EF25 Bedr 1EF26c Livin 01EF27 Bedr 01EF28 Bedr	ing/Kitchen	66	Pass	100	Pass	02EF35c	Living/Kitchen	38	Fail	97	Pass
01EF25 Bedr 1EF26c Livin 01EF27 Bedr 01EF28 Bedr	droom	67	Pass	100	Pass	02EF36	Bedroom	20	Fail	100	Pass
1EF26c Livin D1EF27 Bedr D1EF28 Bedr	droom	54	Pass	100	Pass	02EF37	Bedroom	33	Fail	100	Pass
01EF27 Bedr 01EF28 Bedr	ing/Kitchen	64	Pass	100	Pass	02EF38c	Living/Kitchen	21	Fail	85	Margina
01EF28 Bedr	droom	58	Pass	100	Pass	02EF39	Bedroom	16	Fail	100	Pass
	droom	27	Fail	90	Marginal	02EF40	Bedroom	27	Fail	77	Margina
	ing/Kitchen	58	Pass	100	Pass	02EF41c	Living/Kitchen	65	Pass	100	Pass
01EF30 Bedr	droom	53	Pass	100	Pass	02EF42	Bedroom	33	Fail	100	Pass
	droom	51	Pass	100	Pass	03EF01	Bedroom	45	Marginal	100	Pass
	ing/Kitchen	35	Fail	90	Marginal	03EF02c	Living/Kitchen	85	Pass	100	Pass
	ing/Kitchen	56	Pass	100	Pass	03EF03	Bedroom	40	Marginal	100	Pass
	droom	84	Pass	100	Pass	03EF04c	Living/Kitchen	37	Fail	77	Margina
	ing/Kitchen	29	Fail	97	Pass	03EF05	Bedroom Living/Kitchen	64	Pass	100	Pass
	-	8	Fail	89	Marginal	03EF06c	Bedroom	16	Fail	88	Margina
	uroom	27	Fail	100	Pass	03EF07 03EF08	Bedroom	43	Marginal	100	Pass
	droom droom	23	Fail	88	Marginal			24	Fail	100	Pass
	droom	17	Fail	100	Pass	03EF09c 03EF10	Living/Kitchen Bedroom	34 35	Fail	96	Pass
		25	Fail	73	Fail	USEL10	Beuroom	50	Fail	100	Pass
1EF41c Livin	droom ing/Kitchen	_	Pass	100	Pass						

Block EF – E_T results - Tabulated.

			For an ne	ibitable room	,				FOI UII IIU	bitable rooms	
Median Ex	ternal Diffuse II	luminance	14,900	lx		Median E	xternal Diffuse II	luminance	14,900	lx	
>50 %	of the points o	on a referenc	e plane to r	exceed		>50 %	6 of the points o	on a reference			
- 30 70	or the points t	on a reference	EN17037	EXCEEd	EN17037		o or the points t	on a reference	EN17037	ACCEU	EN1703
Def	Turne	Percentage	Check	Percentage	Check	Def	Turne	Percentage	Check	Percentage	Check
Ref	Type	within 300lx	@ 50%	within 100b	_	Ref	Туре	within 300lx	@ 50%	within 100lx	_
03EF11	Bedroom	38	Fail	100	Pass	04EF26c	Living/Kitchen	84	Pass	100	Pass
03EF12	Bedroom	40	Marginal	100	Pass	04EF27	Bedroom	60	Pass	100	Pass
03EF13	Bedroom	49	Marginal	100	Pass	04EF28	Bedroom	40	Marginal	100	Pass
03EF14	Bedroom	30	Fail	71	Fail	04EF29c	Living/Kitchen	63	Pass	100	Pass
03EF15c	Living/Kitchen	20	Fail	88	Marginal	04EF30	Bedroom	56	Pass	100	Pass
03EF16	Bedroom	8	Fail	54	Fail	04EF31	Bedroom	86	Pass	100	Pass
03EF17	Bedroom	19	Fail	100	Pass	04EF32c	Living/Kitchen	41	Marginal	96	Pass
03EF18c	Living/Kitchen	33	Fail	98	Pass	04EF33c	Living/Kitchen	57	Pass	100	Pass
03EF19	Bedroom	16	Fail	79	Marginal	04EF34	Bedroom	62	Pass	100	Pass
03EF20	Bedroom	12	Fail	72	Fail	04EF35c	Living/Kitchen	50	Pass	99	Pass
03EF21	Bedroom	54	Pass	100	Pass	04EF36	Bedroom	30	Fail	100	Pass
03EF22c	Living/Kitchen	99	Pass	100	Pass	04EF37	Bedroom	47	Marginal	100	Pass
03EF23c	Living/Kitchen	73	Pass	100	Pass	04EF38c	Living/Kitchen	46	Marginal	97	Pass
03EF24	Bedroom	85	Pass	100	Pass	04EF39	Bedroom	34	Fail	100	Pass
03EF25	Bedroom	57	Pass	100	Pass	04EF40	Bedroom	39	Fail	100	Pass
03EF26c	Living/Kitchen	46	Marginal	99	Pass	04EF41c	Living/Kitchen	76	Pass	100	Pass
03EF27	Bedroom	59	Pass	100	Pass	04EF42	Bedroom	45	Marginal	100	Pass
03EF28	Bedroom	34	Fail	98	Pass	05EF01	Bedroom	56	Pass	100	Pass
03EF29c	Living/Kitchen	61	Pass	100	Pass	05EF02c	Living/Kitchen	97	Pass	100	Pass
03EF30	Bedroom	56	Pass	100	Pass	05EF03	Bedroom	49	Marginal	100	Pass
03EF31	Bedroom	58	Pass	100	Pass	05EF04c	Living/Kitchen	45	Marginal	85	Margin
03EF32c	Living/Kitchen	36	Fail	95	Pass	05EF05	Bedroom	100	Pass	100	Pass
03EF33c	Living/Kitchen	60	Pass	100	Pass	05EF06c	Living/Kitchen	25	Fail	100	Pass
03EF34	Bedroom	61	Pass	100	Pass						
03EF35c	Living/Kitchen	33	Fail	97	Pass	05EF07	Bedroom	53	Pass	100	Pass
03EF36	Bedroom	10	Fail	98	Pass	05EF08	Bedroom	58	Pass	100	Pass
03EF37	Bedroom	40	Marginal	100	Pass	05EF09c	Living/Kitchen	47	Marginal	97	Pass
03EF38c	Living/Kitchen	37	Fail	97	Pass	05EF10	Bedroom	46	Marginal	100	Pass
03EF39	Bedroom	35	Fail	100	Pass	05EF11	Bedroom	48	Marginal	100	Pass
03EF40	Bedroom	32	Fail	98	Pass	05EF12	Bedroom	53	Pass	100	Pass
03EF41c	Living/Kitchen	67	Pass	100	Pass	05EF13	Bedroom	75	Pass	100	Pass
03EF42	Bedroom	40	Marginal	100	Pass	05EF14	Bedroom	39	Fail	96	Pass
04EF01	Bedroom	52	Pass	100	Pass	05EF15c	Living/Kitchen	34	Fail	99	Pass
04EF02c	Living/Kitchen	96	Pass	100	Pass	05EF16	Bedroom	22	Fail	100	Pass
04EF03	Bedroom	47	Marginal	100	Pass	05EF17	Bedroom	43	Marginal	100	Pass
04EF04c	Living/Kitchen	41	Marginal	80	Marginal	05EF18c	Living/Kitchen	44	Marginal	98	Pass
04EF05	Bedroom	55	Pass	100	Pass	05EF19	Bedroom	20	Fail	96	Pass
04EF06c	Living/Kitchen	37	Fail	100	Pass	05EF20	Bedroom	14	Fail	77	Margin
04EF07	Bedroom	49	Marginal	100	Pass	05EF21	Bedroom	54	Pass	100	Pass
04EF08	Bedroom	58	Pass	100	Pass	05EF22c	Living/Kitchen	100	Pass	100	Pass
04EF09c	Living/Kitchen	51	Pass	99	Pass	05EF23c	Living/Kitchen	75	Pass	100	Pass
04EF10	Bedroom	40	Marginal	100	Pass	05EF24	Bedroom	88	Pass	100	Pass
04EF10	Bedroom	40	Marginal	100	Pass	05EF25	Bedroom	57	Pass	100	Pass
04EF12	Bedroom	44	Marginal	100	Pass	05EF26c	Living/Kitchen	69	Pass	100	Pass
04EF13	Bedroom	42	Marginal	100	Pass	05EF27	Bedroom	61	Pass	100	Pass
04EF13	Bedroom	33	Fail	72	Fail	05EF27	Bedroom	40	Marginal	100	Pass
04EF14 04EF15c	Living/Kitchen	25	Fail	89	Marginal				-		
	Bedroom				_	05EF29c	Living/Kitchen	63	Pass	100	Pass
04EF16		15	Fail	78	Marginal	05EF30	Bedroom	55	Pass	100	Pass
04EF17	Bedroom	8	Fail	100	Pass	05EF31	Bedroom	64	Pass	100	Pass
04EF18c	Living/Kitchen	30	Fail	97	Pass	05EF32c	Living/Kitchen	38	Fail	96	Pass
04EF19	Bedroom	16	Fail	86	Marginal	05EF33c	Living/Kitchen	65	Pass	100	Pass
04EF20	Bedroom	13	Fail	73	Fail	05EF34	Bedroom	68	Pass	100	Pass
04EF21	Bedroom	54	Pass	100	Pass	05EF35c	Living/Kitchen	49	Marginal	99	Pass
04EF22c	Living/Kitchen	100	Pass	100	Pass						
04EF23c	Living/Kitchen	72	Pass	100	Pass						
04EF24	Bedroom	42	Marginal	100	Pass						
04EF25	Bedroom	57	Pass	100	Pass						



Block EF – E_T results - Tabulated.

			For all ha	bitable rooms	
	the second Difference of				
	xternal Diffuse I		14,900		
>50 9	6 of the points of	on a referenc		xceed	
			EN17037		EN1703
		Percentage	Check	Percentage	Check
Ref	Туре	within 300lx	@ 50%	within 100lx	@ 95%
05EF36	Bedroom	18	Fail	100	Pass
05EF37	Bedroom	54	Pass	100	Pass
05EF38c	Living/Kitchen	65	Pass	99	Pass
05EF39	Bedroom	69	Pass	100	Pass
05EF40	Bedroom	46	Marginal	100	Pass
05EF41c	Living/Kitchen	81	Pass	100	Pass
05EF42	Bedroom	48	Marginal	100	Pass
06EF01	Bedroom	60	Pass	100	Pass
06EF02c	Living/Kitchen	98	Pass	100	Pass
06EF03	Bedroom	47	Marginal	100	Pass
06EF04c	Living/Kitchen	46	Marginal		Marginal
06EF05	Bedroom	74	Pass	100	Pass
06EF06c	Living/Kitchen	22	Fail	100	Pass
06EF07	Bedroom	50	Pass	100	Pass
06EF08	Bedroom	100	Pass	100	Pass
06EF09c	Living/Kitchen	83	Pass	100	Pass
06EF10	Bedroom	42	Marginal	100	Pass
06EF11	Bedroom	47	Marginal	100	Pass
06EF12	Bedroom	53	Pass	100	Pass
06EF13	Bedroom	78	Pass	100	Pass
06EF14	Bedroom	37	Fail	95	Pass
06EF15c	Living/Kitchen	41	Marginal	100	Pass
06EF16	Bedroom	26	Fail	100	Pass
06EF17	Bedroom	38	Fail	100	Pass
06EF18c	Living/Kitchen	53	Pass	99	Pass
06EF19	Bedroom	23	Fail	97	Pass
06EF20	Bedroom	14	Fail	82	Marginal
06EF21	Bedroom	54	Pass	100	Pass
06EF22c	Living/Kitchen	100	Pass	100	Pass
06EF23c	Living/Kitchen	74	Pass	100	Pass
06EF24	Bedroom	59	Pass	100	Pass
06EF25	Bedroom	57	Pass	100	Pass
06EF26c	Living/Kitchen	78	Pass	100	Pass
06EF27	Bedroom	62	Pass	100	Pass
06EF28	Bedroom	40	Marginal	100	Pass
06EF29c	Living/Kitchen	64	Pass	100	Pass
06EF30	Bedroom	57	Pass	100	Pass
06EF31	Bedroom	65	Pass	100	Pass
06EF32c	Living/Kitchen	39	Fail	97	Pass
06EF33c	Living/Kitchen	73	Pass	100	Pass
06EF34	Bedroom	66	Pass	100	Pass
06EF35c	Living/Kitchen	58	Pass	99	Pass
06EF36	Bedroom	38	Fail	100	Pass
06EF37	Bedroom	74	Pass	100	Pass
06EF38c	Living/Kitchen	62	Pass	99	Pass
06EF39	Bedroom	54	Pass	100	Pass
06EF40	Bedroom	46	Marginal	100	Pass
06EF41c	Living/Kitchen	84	Pass	100	Pass
06EF42	Bedroom	52	Pass	100	Pass
07EF13	Bedroom	95	Pass	100	Pass
07EF14	Bedroom	39	Fail	100	Pass
07EF15c	Living/Kitchen	36	Fail	100	Pass
07EF16	Bedroom	18	Fail	100	Pass
07EF17	Bedroom	52	Pass	100	Pass
07EF18c	Living/Kitchen	49	Marginal	99	Pass
07EF19	Bedroom	14	Fail		Marginal
07EF20	Bedroom	9	Fail	56	Fail

			For all hal	oitable rooms	
Median Ex	ternal Diffuse III	uminance	14,900	lx	
>50 %	of the points o	n a reference	plane to e	xceed	
			EN17037		EN17037
		Percentage	Check	Percentage	Check
Ref	Туре	within 300lx	@ 50%	within 100lx	@ 95%
07EF21	Bedroom	49	Marginal	100	Pass
07EF22c	Living/Kitchen	96	Pass	100	Pass
07EF23c	Living/Kitchen	67	Pass	100	Pass
07EF24	Bedroom	29	Fail	100	Pass
07EF25	Bedroom	50	Pass	100	Pass
07EF26c	Living/Kitchen	54	Pass	100	Pass
07EF27	Bedroom	52	Pass	100	Pass
07EF28	Bedroom	17	Fail	82	Marginal
07EF29c	Living/Kitchen	59	Pass	100	Pass
07EF30	Bedroom	45	Marginal	100	Pass
07EF31	Bedroom	47	Marginal	100	Pass
07EF32c	Living/Kitchen	64	Pass	100	Pass
		Count	284	Count	284
		Pass	120	Pass	227
		Pass Rate		Pass Rate	
		300lx/50%	42%	100lx/95%	80%
		Marginal	44	Marginal	34
		Pass Margina	58%	Pass Margina	92%

Block G – E_T results - Tabulated.

			For all ha	bitable rooms					For all ha	oitable rooms	
Median E	xternal Diffuse III	uminance	14,900	lx		Median E	xternal Diffuse III	uminance	14,900	lx	
>50 %	6 of the points o	n a reference				>50 %	6 of the points o	n a reference			
			EN17037		EN17037				EN17037		EN1703
Ref	Туре	Percentage within 300lx	Check @ 50%	Percentage within 100lx	Check @ 95%	Ref	Туре	Percentage within 300lx	Check @ 50%	Percentage within 100lx	Check @ 95%
00G01	Bedroom	40	Marginal	100	Pass	05G01	Bedroom	59	Pass	100	Pas
00G02c	Living/Kitchen	53	Pass	100	Pass	05G02c	Living/Kitchen	93	Pass	100	Pas
00G03	Bedroom	16	Fail	53	Fail	05G03	Bedroom	41	Marginal	100	Pas
00G04c	Living/Kitchen	27	Fail	93	Marginal	05G04c	Living/Kitchen	63	Pass	100	Pas
00G05	Bedroom	11	Fail	100	Pass	05G05	Bedroom	53	Pass	100	Pas
00G06c	Living/Kitchen	72	Pass	100	Pass	05G06c	Living/Kitchen	84	Pass	100	Pas
00G07	Bedroom	100	Pass	100	Pass	05G07	Bedroom	100	Pass	100	Pas
00G10	Bedroom	60	Pass	100	Pass	05G08c	Living/Kitchen	100	Pass	100	Pas
00G11c	Living/Kitchen	85	Pass	100	Pass	05G09	Bedroom	93	Pass	100	Pas
00G12	Bedroom	31	Fail	100	Pass	05G10	Bedroom	58	Pass	100	Pas
01G01	Bedroom	36	Fail	100	Pass	05G11c	Living/Kitchen	91	Pass	100	Pas
01G02c	Living/Kitchen	55	Pass	100	Pass	05G12	Bedroom	49	Marginal	100	Pas
01G03	Bedroom	19	Fail	68	Fail	06G01	Bedroom	60	Pass	100	Pas
01G04c	Living/Kitchen	30	Fail	94	Marginal	06G02c	Living/Kitchen	95	Pass	100	Pas
01G05	Bedroom	0	Fail	98	Pass	06G03	Bedroom	43	Marginal	100	Pas
01G06c	Living/Kitchen	51	Pass	100	Pass	06G04c	Living/Kitchen	70	Pass	100	Pas
01G07	Bedroom	100	Pass	100	Pass	06G05	Bedroom	100	Pass	100	Pas
01G08c	Living/Kitchen	100	Pass	100	Pass	06G06c	Living/Kitchen	80	Pass	100	Pas
01G09	Bedroom	95	Pass	100	Pass	06G07	Bedroom	100	Pass	100	Pas
01G10	Bedroom	58	Pass	100	Pass	06G08c	Living/Kitchen	100	Pass	100	Pas
01G11c	Living/Kitchen	80	Pass	100	Pass	06G09	Bedroom	92	Pass	100	Pas
01G12	Bedroom	29	Fail	100	Pass	06G10	Bedroom	55	Pass	100	Pas
02G01	Bedroom	40	Marginal	100	Pass	06G11c	Living/Kitchen	92	Pass	100	Pas
02G02c	Living/Kitchen	72	Pass	100	Pass	06G12	Bedroom	53	Pass	100	Pas
02G03	Bedroom	24	Fail	71	Fail						
02G04c	Living/Kitchen	31	Fail	95	Pass						
02G05	Bedroom	0	Fail	80	Marginal			Count	82	Count	82
02G06c	Living/Kitchen	80	Pass	100	Pass			Pass	55	Pass	75
02G07	Bedroom	100	Pass	100	Pass			Pass Rate		Pass Rate	
02G08c	Living/Kitchen	100	Pass	100	Pass			300lx/50%	67%	100lx/95%	919
02G09	Bedroom	93	Pass	100	Pass						
02G10	Bedroom	56	Pass	100	Pass						
02G11c	Living/Kitchen	83	Pass	100	Pass			Marginal	9	Marginal	4
02G12	Bedroom	31	Fail	100	Pass			Pass Margina		Pass Margina	
03G01	Bedroom	47	Marginal	100	Pass			1 doo margina	1070	1 doo margina	
03G02c	Living/Kitchen	73	Pass	100	Pass						
03G03	Bedroom	29	Fail	87	Marginal						
03G04c	Living/Kitchen	42	Marginal	99	Pass						
03G05	Bedroom	21	Fail	100	Pass						
03G06c	Living/Kitchen	78	Pass	100	Pass						
03G07	Bedroom	100	Pass	100	Pass						
03G08c	Living/Kitchen	100	Pass	100	Pass						
03G09	Bedroom	95	Pass	100	Pass						
03G10	Bedroom	55	Pass	100	Pass						
03G11c	Living/Kitchen	85	Pass	100	Pass						
03G12	Bedroom	38	Fail	100	Pass						
04G01	Bedroom	52	Pass	100	Pass						
04G02c	Living/Kitchen	87	Pass	100	Pass						
04G03	Bedroom	36	Fail	100	Pass						
04G04c	Living/Kitchen	49	Marginal	100	Pass						
04G05	Bedroom	15	Fail	100	Pass						
04G06c	Living/Kitchen	85	Pass	100	Pass						
04G07	Bedroom	100	Pass	100	Pass						
04G08c	Living/Kitchen	100	Pass	100	Pass						
04G09	Bedroom	93	Pass	100	Pass						
04G10	Bedroom	56	Pass	100	Pass						
04G11c	Living/Kitchen	86	Pass	100	Pass						
	Bedroom	45	Marginal	100	Pass						



Summary - Light Distribution all habitable rooms for all blocks.

A summary for pass results for all blocks is detailed below.

And compared with the analysis from Light Distribution – Target Illuminance (Annex NA)

	Annex NA E _T % Pass			Non-Annex 300lx @ 50%			Non-Annex 100lx @ 95%	
	BRE v3	Incl Marginal			Incl Marginal			Incl Marginal
	Pass %	Pass %		Pass %	Pass %		Pass %	Pass %
AB	95%	98%	AB	61%	70%	AB	85%	92%
CD	93%	98%	CD	29%	47%	CD	89%	96%
EF	93%	96%	EF	42%	58%	EF	80%	92%
G	99%	100%	G	67%	78%	G	91%	96%
Total	94%	97%	Total	46%	60%	Total	85%	93%

It is our opinion that this concurs with the UK committees' position that the non-annex targets are too stringent for use for residential buildings and that (in the absence of an Irish National Annex) that the targets provided in the UK Annex NA are reasonable to apply to residential housing in this case.

The above is further endorsed in the Departments "Sustainable Urban Housing: Design Standards for New Apartments, Guidelines for Planning Authorities" July 2023 and clause 6.6 which directly references the UK National Annex BS EN17037:2019 as does the "Sustainable Residential Development and Compact Settlements Guidelines for Planning Authorities" 2024.

This is a supplementary analysis which does not reflect the performance of the proposed design in temperate climates such as Ireland / UK. There should be no expectation that the design would comply with these requirements.

The NA-annex results in the main body of this report reflect design in such conditions. This is as defined by the UK committee and directly referenced in Irish Department publications such "Sustainable Urban Housing: Design Standards for New Apartments, Guidelines for Planning Authorities" July 2023, "Sustainable and Compact Settlements: Guidelines for Planning Authorities 2024" and many Development Plans.