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CDM 2015 - Designers Risk Assessment

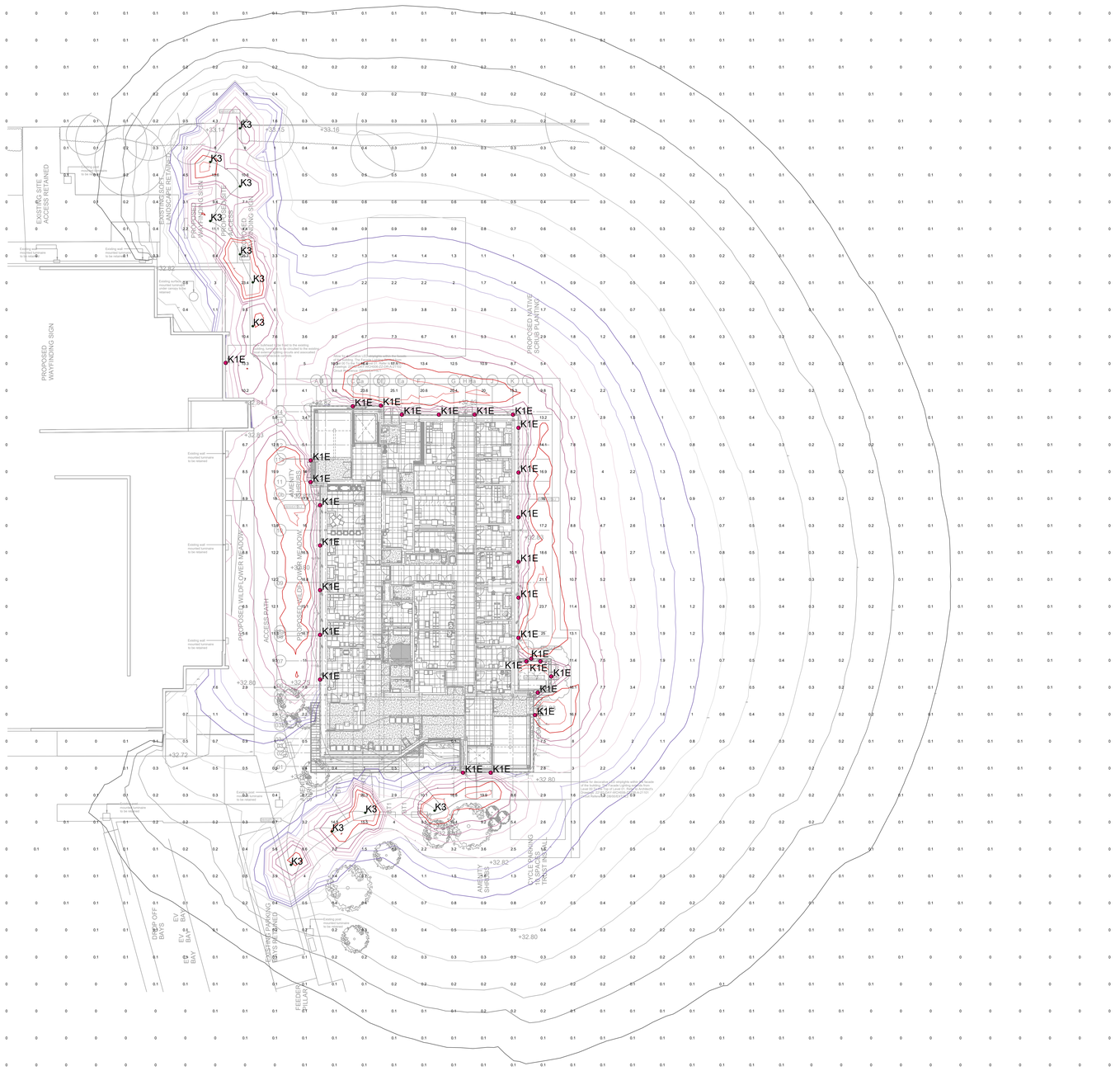
The following information is provided in accordance with Regulation 9 of the Construction (Design Management) Regulations 2015:

- No unusual or significant risks have been identified.
- Installation of electrical services to lighting, contractor to prepare appropriate Risk assessment and method statements to establish safe method of works.
- Installation of lighting may involve working at height, contractor to prepare appropriate Risk assessment and method statements to establish safe method of works.
- Product specific Installation instructions should be adhered to, in order to ensure compliance with the requirements of BS EN 60598 with regards to electrical and mechanical safety of the luminaire.
- Refer to the Principal Designer for any project specific Health & Safety information.

GENERAL NOTES:

1. Do not scale from this drawing.
2. All dimensions are in millimeters unless otherwise noted.
3. All dimensions are to be confirmed.
4. This drawing does not necessarily contain all the required information required to communicate the overall design intent or construction detail - therefore drawings should be read in conjunction with all other relevant documentation and specifications.
5. Any apparent errors or differences shall be brought to the attention of Whitecroft Lighting as soon a practicable.

SYMBOL	REF	QTY	PART CODE	PRODUCT	WATTAGE
	K1E	25	K6H4154KSLEP	KOLO IP65	13 W
	K3	11	BLY214KSRB	KOLO BOLLARD	4 W



BREEAM and Light Pollution Compliance Summary

Project Reference	34511
Project Name	WITHINGTON CDC - COMMUNITY DIAGNOSTIC CENTRE
Date	06.11.2025
Report By	B. STANTON
WLL Drawing Numbers	34511_DWG_EX_00004_01
Comments	Assumed E3 environmental zone operating pre-curfew

BREEAM Pol 4 - Reduction of Night Time Light Pollution Non-Domestic Buildings

One BREEAM credit is available where the lighting design is in compliance with the criteria below

Demonstrate compliance with ILP Guidance Notes for the Reduction of Obtrusive Light (2021)
Select Environmental Zone from table below:

Table 1 - Environmental Zones

Zone	Surrounding	Lighting Environment	Examples
E0	Protected	Dark	UNESCO Starlight Reserves, IDA Dark Sky Parks
E1	Natural	Intrinsically dark	National Parks, Areas of Outstanding Natural Beauty etc.
E2	Rural	Low district brightness	Village or relatively dark outer suburban locations
E3	Suburban	Medium district brightness	Small town centres or suburban locations
E4	Urban	High district brightness	Town/city centres with high levels of night-time activity

Table 2 - Obtrusive Light Limitations for Exterior Lighting Installations - General Observers

Environmental Zone	Sky Glow ULR (Max %)	Light Intrusion (into windows) Ev (lux)		Luminaire Intensity I (candelas)		Building Luminance Pre-curfew Average, L (cd/m²)
		Pre-curfew	Post-curfew	Pre-curfew	Post-curfew	
E0	0	0	0	0	0	0
E1	0	2	0	2500	0	0
E2	2.5	5	1	7500	500	5
E3	5.0	10	2	10000	1000	10
E4	15	25	5	25000	2500	25

General notes relating to the ILP Guidance
1 - Values for Light Trespass into windows can only be demonstrated with full detailed drawings showing adjacent properties. Please see Lighting Calculation for further details

2 - No building is lit directly as a night time feature so Building Luminance requirements are not exceeded

3 - This applies to each luminaire in the potentially obtrusive direction, outside of the area being lit. The figures given are for general guidance only and for some applications with limited mounting heights, may be difficult to achieve.

4 - External lighting (except for safety and security) should be automatically switched off between 11pm and 7am (Post curfew) to gain the BREEAM credit

5 - Safety and security lighting between 11pm and 7am should meet the 'Post curfew' targets in Table 2

6 - Night-time switching control is recommended to achieve compliance post curfew

7 - Lumen outputs reduced by 50% where 'Dual Power' feature is used

Upward Light (ULR)	
Target	5.0%
Project	46.4%
PASS/FAIL	FAIL

Source Intensity (kcd)		
	Pre Curfew	Post Curfew
Target	10.0	1.0
Project	0.6	
PASS/FAIL	PASS	

E3	Project Environmental Zone

Input project equipment details into white boxes below

Reference	Part Number	Product Type	Time of Operation	Lamps	Lumen	Qty	Light Outpt Ratio % (LOR)	Upward Light Ratio % (ULR)	Total Upward Lumens	Total Available Lumens	Max. source Intensity cd/1000 lm	Max. source Intensity kcd Pre Curfew	Max. source Intensity kcd Post Curfew	Circuit Watts	Total Watts
K1	K6H4154KS WALL MTD	KOLO IP65 - WALL	Pre Curfew	LED	1755	28	100.00%	50.00%	24570.0	49140.0	330	0.579		13.7	383.6
K3	BLY214KSRB	KOLO BOLLARD	Pre Curfew	LED	404	11	100.00%	6.60%	293.3	4444.0	240	0.097		4.0	44.0
									24863	53584					427.6

BREEAM Ene 03 External Lighting, BREEAM New Construction (Non-Domestic Buildings)

Total LL/CW	125.3

Select BREEAM version in box below:

2018 ← If 2014 or 2018, status is shown to the right. If 2011, use separate table

BREEAM 2018	
Luminaire lumens per circuit watt LL/CW	
Target	70.0
Project	125.3
PASS/FAIL	PASS

One BREEAM credit is available where luminaires meet the criteria below and are controlled through time or daylight to prevent operation during daytime hours.
Minimum target indicates the minimum average for external luminaires in all areas and with any colour rendition

Whitecroft Lighting Ltd

ISOLINE LEGEND
100
75
50
30
20
15
10
7.5
5
2
1.5
1
0.75
0.5
0.3

Rev	Description	Date	By
01	LIGHTING LAYOUT AMENDED IN LINE WITH LATEST FEEDBACK COMMENTS.	06.11.2025	BS GE
00	INITIAL PROPOSAL	11.09.2025	BS

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Project Name:
WITHINGTON CDC

Drawing Name:
EXTERNAL LIGHTING LAYOUT DESIGN

Drawn by:	Checked by:	Date:	Scale:
BS	GE	11.09.2025	1: 200 @ A0

Drawing No.: 34511 - DWG - EX - 00004
Revision: 01

Project No. | Type | Floor/Loc. | Sequence