

PUBLIC LIGHTING REPORT

FOR

**GOLF LANE DEVELOPMENT
CARRICKMINES, DUBLIN 18**

FOR

BOWBECK DAC

Project Reference:	J587
Revision Ref:	Planning
Date Issued:	16 th December 2020

1. PROPOSED DEVELOPMENT

Bowbeck DAC, seek planning permission for a strategic housing development on a site at Golf Lane, Carrickmines, Dublin 18. The site has an area of c. 2.56 hectares and is bound to the north by the M50 motorway, to the east by Golf Lane, to the west by Glenamuck Road, and to the south by existing residential development.

The proposed development comprises a residential development of 482 no. units (all apartments), along with ancillary residential amenities, and provision of a childcare facility, gym, and local shop. The proposed residential units comprise 31 no. studio units, 183 no. 1-bedroom units, 229 no. 2-bedroom units, and 39 no. 3-bedroom units (including 2 no. duplex type units).

The proposed development is set out in 7 no. blocks which comprise the following:

- Block A1 comprises 62. no, apartments within a part four, part six storey building, including 10 no. studio units, 7 no. 1-bedroom units, 41 no. 2 bedroom units, and 4 no. 3-bedroom units. An ESB substation is provided at ground floor level.
- Block A2 comprises 85 no. apartments within a part four, part eight storey building, including 25 no. 1-bedroom units, 45 no. 2-bedroom units, and 15 no. 3-bedroom units.
- Block A3 comprises 79 no. apartments within a part four, part twelve storey building, including 21 no. studio units, 19 no. 1-bedroom units, 28 no. 2-bedroom units, and 11 no. 3-bedroom units.
- Block B0 comprises 150 no. apartments and resident's amenities within a part four, part eighteen, part twenty-one and part twenty-two storey building. The apartments include 76 no. 1-bedroom units, 68 no. 2-bedroom units, and 6 no. 3-bedroom units (including 2 no. duplex type units). An ESB substation, resident's concierge area and amenity space (171 sq.m sq.m) are provided at ground floor level. A further resident's amenity / event space is provided at the twentieth and twenty-first floor levels (83 sq.m).
- Block B1 comprises 8 no. apartments and is four storeys in height, directly abutting Block B. The apartments include 4 no. 1-bedroom units, and 4 no. 2-bedroom units.
- Block C comprises 42 no. apartments and a local shop within a part five, part seven storey building. The apartments include 30 no. 1-bedroom units, 9 no. 2-bedroom units, and 3 no. 3-bedroom units. A local shop (154 sq.m) and an ESB substation are provided at ground floor level.
- Block D comprises 56 no. apartments, a commercial gym, resident's concierge area, resident's lounge, and a childcare facility in a part four, part seven storey building. The apartments include 22 no. 1-bedroom units, and 34 no. 2-bedroom units. The resident's concierge area (99 sq.m), commercial gym (340 sq.m), and childcare facility (300 sq.m) units are located at ground floor level. The resident's lounge (292 sq.m) is located at first floor level.

Two basement levels are proposed, providing car parking spaces (299 no.), bin stores, plant rooms, bicycle parking (1,000 no. spaces), and circulation areas. A further 240 no. bicycle parking spaces and 4 no. car parking spaces are provided at ground level. The proposed development includes landscaping, boundary treatments, public, private and communal open space (including roof terraces), two cycle / pedestrian crossings over the stream at the western side of the site, along with a new pedestrian and cycle crossing of Glenamuck Road South at the west of the site, cycle and pedestrian facilities, play facilities, and lighting. The proposed buildings include the provision of private open space in the form of balconies and winter gardens to all elevations of the proposed buildings. The development also includes vehicular,

pedestrian, and cycle accesses, drop off areas, boundary treatments, services, and all associated ancillary and site development works.

2. EXECUTIVE SUMMARY

The purpose of this report is to demonstrate that the proposed development, would satisfy the criteria of the local council as outlined below.

This report was prepared in accordance with the document 'Public Lighting Installations in Residential and Industrial Areas (Guidance Document – February 2015)' to ensure the development will be provided with adequate lighting to the standards of South Dublin County Council.

Design of the public lighting is based on the current British Standards for Road Lighting BS 5489 and BS EN 13201. Class for the design is P4 with S/P ratio of 1.4.

The lighting design complies with the above requirements and detailed output is on the following pages:

DATE: 28 November 2020
DESIGNER: Dan Staunton
PROJECT No: 20-03-09-01D
PROJECT NAME: Golf Lane Development

Veelite

Golf Lane Development,
Carrickmines, Co. Dublin

IS EN 13201-2:2015 / BS 5489-1:2020
Class P4

Outdoor Lighting Report

Based on:
Lumen Output at 100,000 hours
Spot Lamp Replacement
Normal Environment
6 Year Cleaning Cycle
Ground is Level

L80 B10 >100,000 hours
(at 25 degrees)

PREPARED BY: Dan Staunton
Veelite Lighting Ltd
Waterford, Ireland
+353 (0)51 875399
design@light.ie
www.light.ie

Layout Report

General Data

Dimensions in Metres Angles in Degrees
Grid Origin -26.2m x 5.8m
Area 266.9m x 228.3m
Sample Spacing 1.50m x 1.49m

Luminaires

Luminaire A Data

Supplier	
Type	Veelite Quad Series 36w LED Symmetric Optic
Lamp(s)	16LED 3000K
Lamp Flux (klm)	3.75
File Name	5QDA08LGA.ies
Maintenance Factor	0.76
Lum. Int. Class	G4
No. in Project	13

Luminaire B Data

Supplier	
Type	Veelite Quad Series 36w LED Street Optic R03
Lamp(s)	16LED 3000K
Lamp Flux (klm)	4.03
File Name	5MTA12LGA-R03-3K.ies
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	6

Luminaire C Data

Supplier	
Type	Veelite Quad Series 36w LED Street Optic R02
Lamp(s)	16LED 3000K
Lamp Flux (klm)	3.77
File Name	5MTA12LGA-R02.ies
Maintenance Factor	0.76
Lum. Int. Class	G3
No. in Project	6

Layout

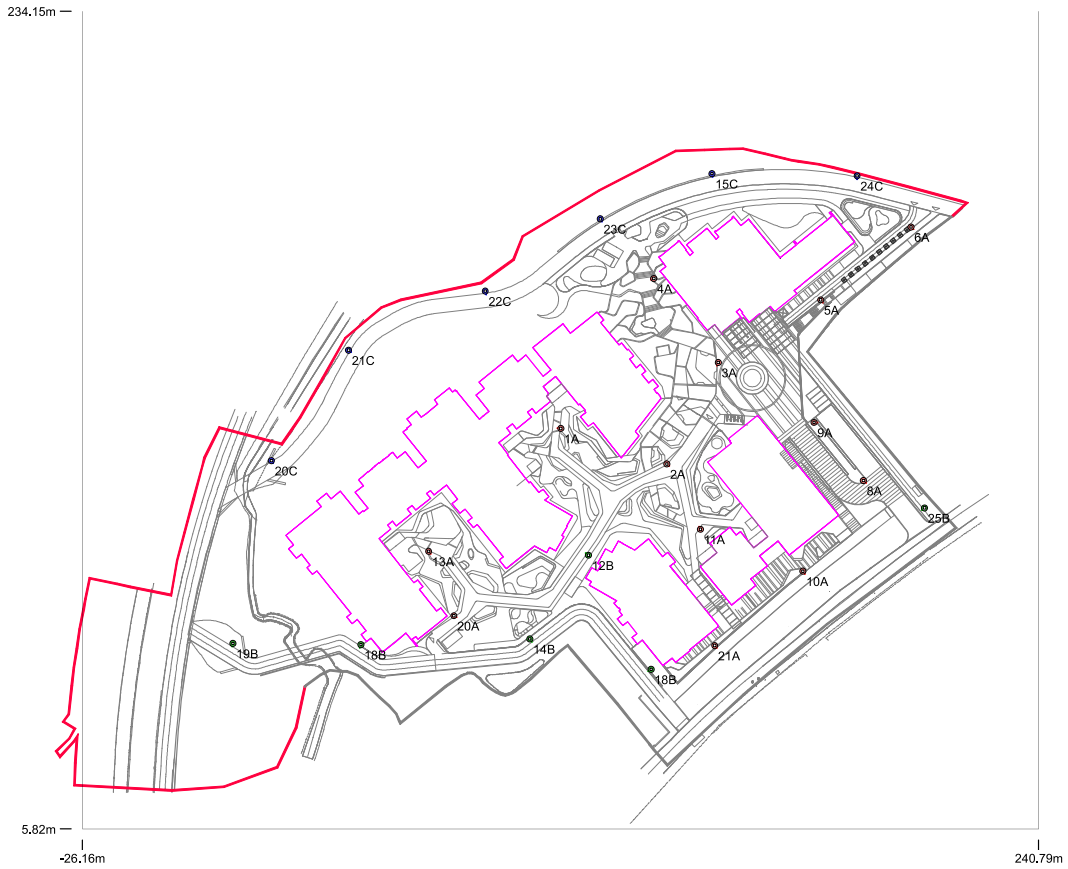
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	107.36	117.65	6.00	171.00	0.00	0.00	0.00			
2	A	136.93	107.80	6.00	321.00	0.00	0.00	0.00			
3	A	151.28	136.11	6.00	248.00	0.00	0.00	0.00			
4	A	133.30	159.55	6.00	200.00	0.00	0.00	0.00			
5	A	179.87	153.56	6.00	305.00	0.00	0.00	0.00			
6	A	205.05	173.93	6.00	319.00	0.00	0.00	0.00			
8	A	191.84	103.13	6.00	322.00	0.00	0.00	0.00			
9	A	178.06	119.33	6.00	0.00	0.00	0.00	0.00			
10	A	174.94	77.83	6.00	305.00	0.00	0.00	0.00			
11	A	146.38	89.52	6.00	118.00	0.00	0.00	0.00			

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
12	B	115.12	82.34	6.00	146.00	0.00	0.00	0.00			
13	A	70.45	83.41	6.00	307.00	0.00	0.00	0.00			
14	B	98.74	58.93	6.00	302.00	0.00	0.00	0.00			
18	B	132.54	50.47	6.00	218.00	0.00	0.00	0.00			
15	C	149.50	188.80	6.00	286.00	0.00	0.00	0.00			
20	A	77.50	65.45	6.00	334.00	0.00	0.00	0.00			
21	A	150.32	57.14	6.00	313.00	0.00	0.00	0.00			
18	B	51.55	57.36	6.00	250.00	0.00	0.00	0.00			
19	B	15.85	57.71	6.00	255.00	0.00	0.00	0.00			
20	C	26.60	108.73	6.00	307.00	0.00	0.00	0.00			
21	C	48.14	139.56	6.00	327.00	0.00	0.00	0.00			
22	C	86.27	156.00	6.00	282.00	0.00	0.00	0.00			
23	C	118.38	176.21	6.00	297.00	0.00	0.00	0.00			
24	C	190.04	188.22	6.00	268.00	0.00	0.00	0.00			
25	B	208.90	95.49	6.00	218.00	0.00	0.00	0.00			

Horizontal Illuminance (lux)

Road/Paths

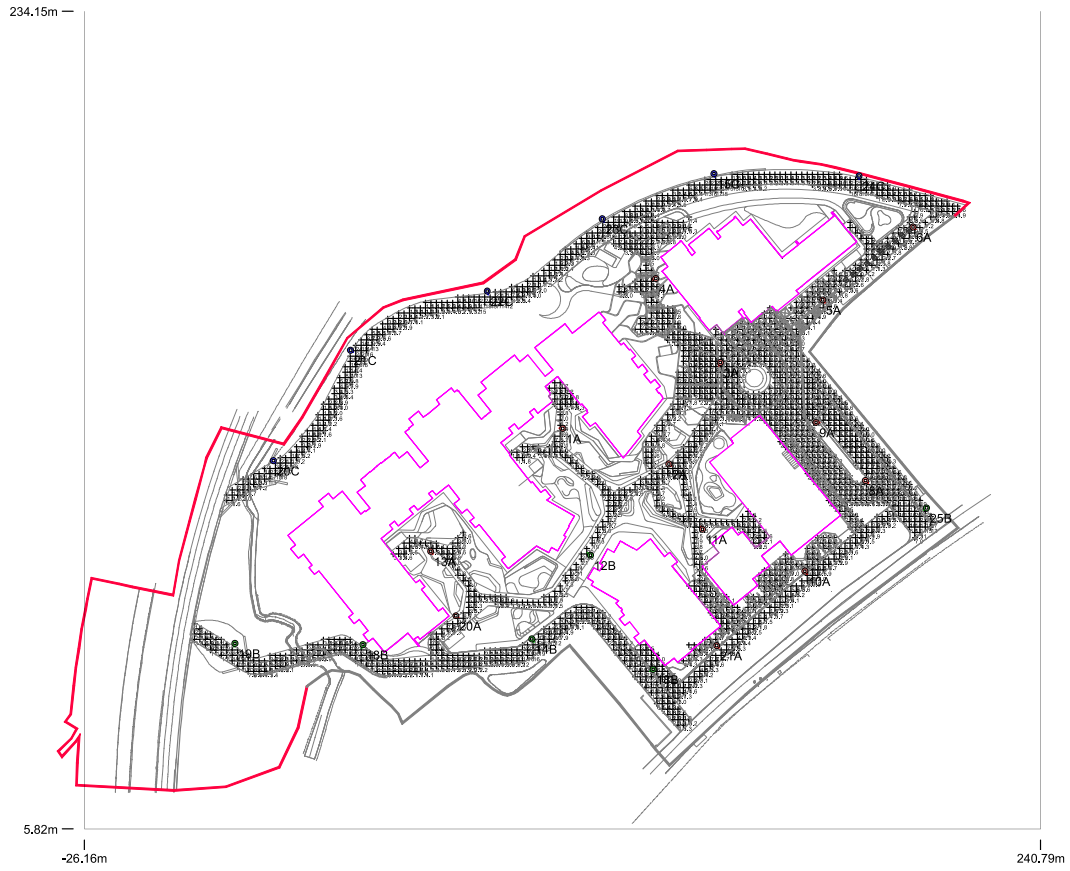


Results

Eav	5.58
Emin	1.09
Emax	26.76
Emin/Emax	0.04
Emin/Eav	0.20

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Road/Paths



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