



OCSC

O'CONNOR · SUTTON · CRONIN
MULTIDISCIPLINARY CONSULTING ENGINEERS

L389: STAPOLIN PHASE 2

PUBLIC LIGHTING REPORT

For
The Land Development Agency
16 July 2026

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1 INTRODUCTION

The proposed development will consist of the alteration of permitted development of Block A, Block D and Stapolin Square, as permitted under ABP Reg. Ref. ABP-310418-21 (and as amended under LRD/0015/S3 & LRD/0073/S3E). No amendments are proposed to any other permitted blocks.

The permitted Block A and Block D are located to the south and north of Stapolin Square and include for 528 units (277 in Block A1, A2 & A3 and 251 in Block D1, D2 & D3) and include residential tenant amenity, retail/café/restaurant, pharmacy, medical centre, crèche, gym, car and bicycle parking and public realm.

The proposed alterations only relate to Block A, Block D and Stapolin Square, of the permitted development and for the most part are contained within the footprint and massing of the permitted development and relate to internal reconfiguration.

The proposed alterations result in an overall increase of 68 no. units in Block A and Block D, bringing the total units in Block A and Block D to 596, the total units permitted under ABP Reg. Ref. ABP-310418-21 (as amended) to 893 (760 apartments and 133 houses).

The proposed altered residential development of Block A and Block D will consist of a total of 596 no residential apartments, as follows:

1. Alteration of Blocks A1, A2 & A3 from permitted 4 to 7-storey buildings providing for 288 no. apartment units to a 4 to 7 storey building providing for 312 no. apartments.
2. Alteration of Blocks D1, D2 & D3 from permitted 5 to 10-storey buildings providing for 251 no. apartment units to a 5 to 10 storey building providing for 284 no apartments.
3. The reconfiguration of internal layouts of each of the blocks has resulted in the reduction of the blocks overall width and therefore increased width and area to the courtyards and increased distance between individual blocks.
4. Alteration of the permitted uses and facade at ground floor level and removal of permitted Residential Tenant Amenity Facilities located in Blocks A3 and D3 to provide for a ground floor level that includes in Blocks A1-A3, retail/restaurant/café/gym units and a creche including outdoor play space and in Blocks D1-D3, retail/restaurant/cafe units and residential units.
5. A revised central civic plaza at Stapolin Square centrally located between blocks A1-A3 and D1-D3, redesigned to address Condition 2 (a) of ABP-310418-21 which requires the removal of the two previously proposed public lifts. Stapolin Square is now designed to accommodate a gently sloped landscaped route from Longfield Road to Clongriffin Train Station.
6. Alterations to the permitted below podium areas under Block A, Stapolin Square & Block D to include for alterations to permitted layouts of car parking, cycle parking, plant, waste stores and substation locations. This includes the reduction in car parking as required under Condition 2 (b) of ABP-310418-21 which requires omission of car parking under the permitted ramped access road to the Train Station to the north of Block D. An increase in bicycle parking is proposed.

No amendments are proposed to the constructed Blocks within B3, B4, C4, C5, C6 or the permitted The Haggard Park which remains as permitted, or all other elements including surface water attenuation wetlands and associated upstream surface water network, demolition of existing temporary lift and stair enclosure and associated infrastructure to Clongriffin Train Station, road infrastructure (except where within the application boundary and requiring to be locally altered for proposed alterations), and utilities infrastructure (except where within the application boundary and requiring to be locally altered for proposed alterations), all of which remain as per permitted.

Standards and guidelines in relation to the lighting design are:

- BS 5489-1-2020
- I.S. EN 13201-2:2026

The electrical services for the external lighting installation will be designed in accordance with National Rules for Electrical Installations IS 10101: 2020 + A1:2024.

2 THE DESIGN

The lighting design has been developed with the following principal considerations:

- Provide adequate illumination to contribute towards the safe use of the main access/feeder road and adjoining footpaths by both vehicles, cycles and pedestrians.
- Provide adequate illumination to junctions with the development.
- Achieve compliance with BS8300 Code of Practice Design of buildings and their approaches to meet the needs of disabled people.
- Provide the required illumination with minimum energy use.
- To control the lighting to prevent energy wastage.

All wiring to be to IS: 10101 National Rules for Electrical Installations.

The additional luminaires are to be powered from the existing public lighting micropillars. Wiring shall comply with IS:10101 National Rules for Installation.

2.1 LIGHTING ECOLOGY

The lighting scheme has been designed to adhere to the following lighting characteristics:

- The minimum level of appropriate/required lighting level will be provided within the developed/residential areas;
- Light fittings will be fitted with low intensity, horizontal cut-off LED light fittings employing a narrow directional light or cowled light. This will avoid the effect of light spill arising within the residential area;
- No light spill into biodiversity areas. In particular there will be no light spill from the development area onto the woodland area to the north;
- The road lighting includes dimming by 30% post curfew hours;
- Light fittings and associated lighting will be directed away from areas of open space;
- No floodlighting will be used in the development;

The lighting design adheres to the following standard guidance:

- Bats and Lighting – Guidance Notes for Planners, Engineers, Architects and Developers (Bat Conservation Ireland, 2010);
- Bats and Lighting in the UK – Bats and the Built Environment Series (Institute of Lighting Professionals, September 2018).

Also:

- Guidance Notes for the Reduction of Obtrusive Light GN01 (Institute of Lighting Professionals, 2011);

2.2 AREAS TAKEN IN CHARGE BY FCC

All lighting within the area to be taken in charge is to be powered from unmetered ESB supply, via a new lighting minipillar to meet FCC specification.

The lighting class to I.S. EN 13201-2-2015 selected for the design is Lighting Class P3 for roads and Class P4 for Stapolin Square.

All lighting luminaires to be LED, 4000k CCT, LM80 >15 years using TM21-11 test results, driver current < 750mA, minimum IK08 impact resistance, at least IP65 ingress protection, as required by FCC specification.

The road lighting shall be by individual electronic solid state photocell per luminaire, with test switch in column base, to FCC specification.

Lighting columns will be tubular type, galvanised steel, fully in accordance with FCC standard specification.

All wiring to be to FCC standard specification and IS 10101 National Rules for Electrical Installations.

Manufacturer's data sheets for the selected luminaires are attached to this document as Appendix.

2.3 AREAS TO REMAIN UNDER CONTROL OF THE MANAGEMENT COMPANY

All lighting within the area is to be powered from the metered landlord supply via sub-distribution boards as required and to comply IS 10101 National Rules for Electrical Installations.

Lighting class which is being achieved in areas under management is to P3/P4 lighting class. This doesn't take into account areas in the courtyard which have to comply with BS 8300 Code of practice for Design of buildings and their approaches to meet the needs of disabled people.

All access routes shall comply with BS 8300 Code of Practice Design of buildings and their approaches to meet the needs of disabled people, e.g. 5 lux for level and 30 lux for steps and ramps.

The luminaires proposed for these areas are combination of 4/5m column mounted and LED strip lighting.

All wiring to be to FCC standard specification and to IS 10101:2019 National Rules for Electrical Installations.

The desired lighting design may also be achieved by other luminaires and the final lighting installation may use other luminaires, with modified positioning and aiming to achieve the same result. Manufacturers' stated performance characteristics are subject to change. Any changes to be agreed with FCC Road Lighting Department.

Appendix A PROPOSED LUMINAIRE DATASHEETS

X1 – 4M STREET LIGHT ON GALVANISED POLE

Urbis Schreder Shuffle



The SHUFFLE 360 lighting range includes two complementary modules that share the same external design, lighting performance and light distributions:

- SHUFFLE 360 LT: a lighting-only module designed for projects that require a simple, cost-optimised lighting solution.
- SHUFFLE 360 LGT GEN2: a future-ready module enabling the integration of WLAN, CCTV, sound and other beyond-lighting features, either immediately or at a later stage.

Both versions offer numerous lighting options including LED colour temperatures, lumen packages, optics, control interfaces, electrical classes and protector types. They can also be equipped with an optional NEMA or Zhaga socket, ensuring full compatibility with the Schréder EXEDRA lighting management system and other IoT platforms.

Crafted from high-pressure die-cast aluminium and available with clear, semi-sanded or totally sanded protectors, the SHUFFLE 360 range meets all lighting requirements with robustness and visual comfort.

Dimensions: 194 x 815mm

Luminaire Input Power: 22.5W

Luminous Flux: 4100lm

Luminous Efficacy: 182lm/W

Colour Temperature: 4000K

X2 – Handrail Mounted Light

Keylight LED Stripe



Dimensions: 5 x 8mm

Luminaire Input Power: 7W

Luminous Flux: 600lm

Luminous Efficacy: 85lm/W

Colour Temperature: 4000K

X3 – Low Level Mounted Light

Keylight LED Stripe



Dimensions: 5 x 8mm

Luminaire Input Power: 7W

Luminous Flux: 600lm

Luminous Efficacy: 85lm/W

Colour Temperature: 4000K

X4 – 5M STREET LIGHT ON GALVANISED POLE

Urbis Schreder Rivara Gen2



RIVARA GEN2 is a contemporary urban lighting luminaire distinguished by its refined, minimalist design. Its clean silhouette integrates seamlessly into a wide range of urban settings, offering the latest in energy-efficient LED technology. Delivering uniform, effective illumination with low energy consumption, RIVARA GEN2 is suited to a variety of applications. Available in single or double bracket configurations, it provides design flexibility to meet the specific needs of each project. RIVARA GEN2 combines aesthetics and performance, enhancing public spaces with a modern, welcoming atmosphere, day and night.

Dimensions: 1000 x 100 x 180mm

Luminaire Input Power: 38.5W

Luminous Flux: 4700lm

Luminous Efficacy: 122lm/W

Colour Temperature

3 VERIFICATION

This report was compiled and verified by:

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