



**PROPOSED
EXTERNAL
LIGHTING
ASSESSMENT -
OUTLINE
APPLICATION**

AT

**LAND WEST OF
SCHOOL LANE,
HIGHAM,
GRAVESHAM**



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1.0 SITE DETAILS

1.1 LOCATION

The application site comprises land proposed for residential development of up to 50 dwellings. The site is located adjacent to existing residential uses. The outline planning application seeks consent for residential development.



Figure 1.1.1 – Image showing the location of the proposed residential development

This External Lighting Statement has been prepared to support the outline application by demonstrating that external lighting impacts can be appropriately managed at a later stage and that there are no lighting constraints affecting the suitability of the site for residential use.

This report has been prepared solely to support the outline planning application and focuses exclusively on the assessment of indicative external lighting layouts submitted at this stage. The contents of this report do not constitute a detailed lighting design, specification, or commitment to future works. Any detailed lighting design, revisions, additional assessment, or works beyond the scope of the outline application are not included and would be subject to separate appointment, review, and approval as part of a future element of works.

1.2 DEVELOPMENT TYPE

The proposed development comprises new residential dwellings together with associated access roads, footpaths, public open space, and supporting infrastructure. External lighting will be required to facilitate safe movement within the development and support residential amenity.

As part of the outline planning application, an indicative external lighting design has been prepared to demonstrate that an appropriate lighting solution can be achieved in principle. The indicative design does not fix luminaire types, lighting levels, or column positions and is provided solely to support the assessment of the outline proposal. The lighting design is provided for outline planning application purposes only and does not extend to detailed design or implementation, or subsequent stages of work.

1.3 ENVIRONMENTAL TYPE

Based on the site context and surrounding land uses, the development is considered to fall within Environmental Zone E3 (Medium District Brightness) as defined by the Institution of Lighting Professionals (ILP) Guidance Notes for the Reduction of Obtrusive Light. This classification reflects the suburban nature of the surrounding area and the presence of existing external lighting sources.

2.0 DESIGN STANDARDS AND GUIDELINES

2.1 BRITISH STANDARDS

BS EN 12464 – Light and Lighting

This standard details the requirements of external lighting and refers to the reduction of obtrusive light. It forms the basis of the CIBSE lighting guides and the ILP lighting guides. The standard defines the different environmental zones and details the lighting requirements for each.

2.2 CIBSE LIGHTING GUIDELINES

CIBSE SLL Code for Lighting

The SLL Code for Lighting is a covering guidance document which summaries the specific lighting guides and provides broader detail of the requirements for external lighting.

2.3 ILP GUIDELINES

ILP Guidance Notes for the Reduction of Obtrusive Light

The ILP guidance for the reduction of obtrusive light is one of the most common documents referred to when reviewing the impact of external lighting to the surrounding environment. The document details strict parameters for which external lighting must comply. The parameters are determined by the location of the development.

2.4 DESIGN CRITERIA

At outline stage, the external lighting design criteria are defined at a high level appropriate to the nature of the application and the classification of the site as Environmental Zone E3. Definitions for all Environmental Zones can be found within Table 2.4.1 below, taken from the ILP guidance documentation.

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 2.4.1 – Extract from the ILP Guidance Notes for the Reduction of Obtrusive Light

The indicative lighting approach set out within this statement has been prepared to demonstrate that suitable design parameters can be established at a later stage to manage lighting impacts and protect residential amenity.

Detailed lighting criteria, including specific performance targets and design parameters, would be determined at a future stage, informed by the approved site layout and any relevant planning conditions.

LIGHTING DESIGN

2.5 SELECTED LUMINAIRES

For the purpose of this outline application and the preparation of the indicative lighting calculations and layout, a representative luminaire and lighting column from Holophane, has been specified.

The reference to this specific manufacturer is included solely to facilitate robust lighting calculations using established photometric data. The luminaires and columns identified are not fixed and are provided for assessment purposes only.

Final luminaire and column selection will remain subject to review and approval at reserved matters stage. Any alternative products proposed will be required to demonstrate equivalent or improved performance in terms of safety, residential amenity, and the control of obtrusive light.



Figure 2.5.1 – luminaire used within the lighting calculation – column mounted at 6m, Holophane S-Line 24W, IP66, 3000K LED colour temperature, Type II Medium distribution

2.6 LIGHTING CALCULATIONS

An indicative lighting calculation has been undertaken to inform the outline planning application and to demonstrate that an acceptable external lighting solution can be achieved in principle.

The calculation has been prepared using an illustrative site layout and provides confidence that appropriate lighting levels can be delivered across the development while controlling light spill and protecting residential amenity. The results are intended to be indicative only, reflecting the outline nature of the application. The calculations are limited to the layouts submitted in support of the outline application and do not extend to subsequent design development or alternative layouts.

Figure 2.6.1 is a site-wide layout showing indicative 6m height column locations across the development. the type of luminaire can be cross-referenced with the luminaire selection detailed in section 2.5.

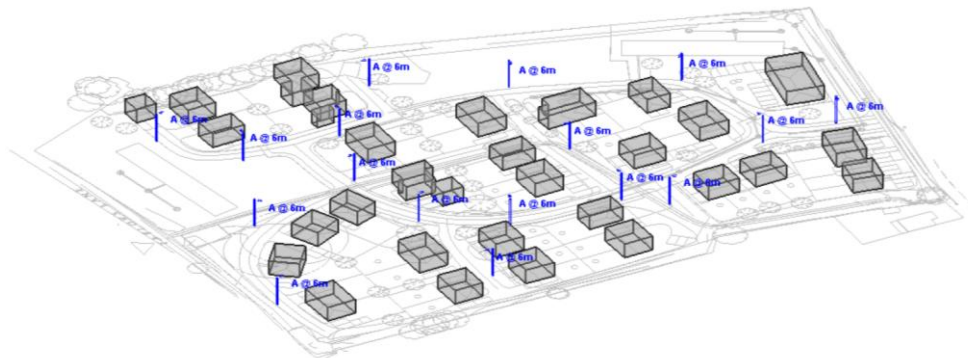


Figure 2.6.1 – site-wide layout showing 6m height column locations

The lighting calculations are based on:

- The layouts provided by the client
- Typical luminaire photometric performance representative of residential external lighting
- Notional column heights, mounting arrangements, and luminaire positions

The calculations are not intended to represent a final lighting design. Any future calculations would be subject to review, update, and submission as part of a future application, if required.

Figure 2.6.2 is a site-wide layout indicating the calculation areas used for the development.

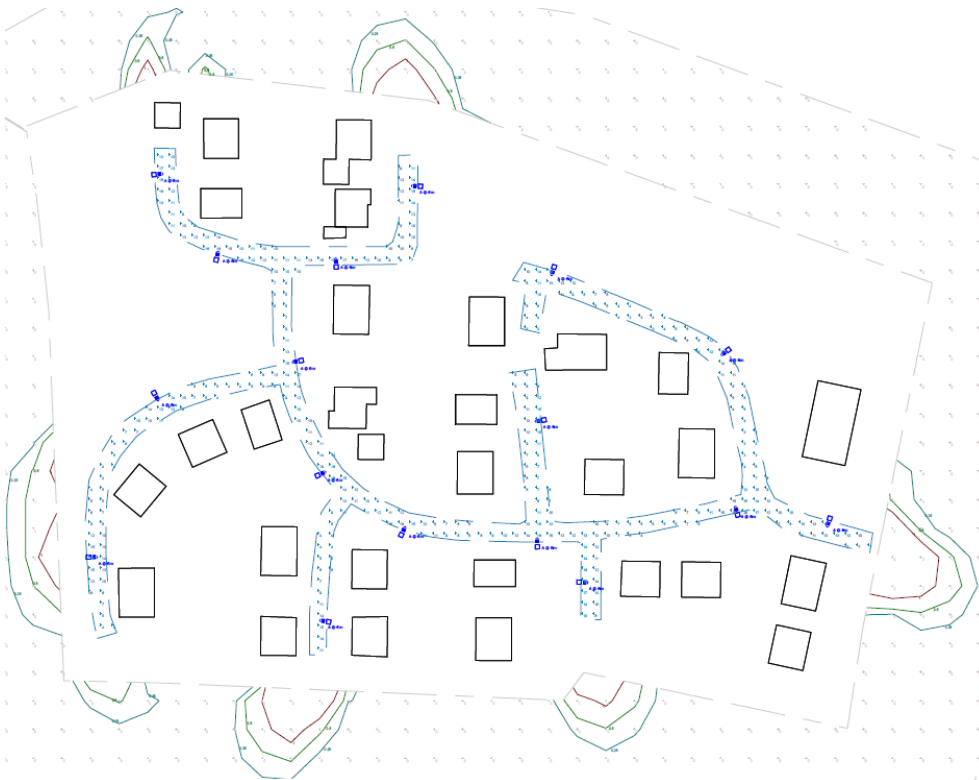


Figure 2.6.2 – road lighting calculation areas

2.7 LIGHTING DRAWINGS

An indicative external lighting layout has been calculated. The drawings illustrate indicative luminaire locations together with calculated lighting levels across the development.

The layout has been produced to support the lighting calculations described in Section 2.6 and to demonstrate, in principle, that:

- Suitable lighting coverage can be achieved for roads, footpaths, and pedestrian routes
- Light spill beyond the site boundary can be appropriately controlled
- External lighting can be coordinated with the emerging site layout and landscape proposals

The lighting layout is illustrative only and has been prepared solely to support the outline planning application, and does not fix luminaire types, positions, or performance. Any final lighting arrangement would be subject to detailed design and approval at a subsequent stage.

The isoline plot (false colour rendering) layouts show the extent of light coverage throughout the proposed residential development, detailed in images 2.7.1, 2.7.2, and 2.7.3.

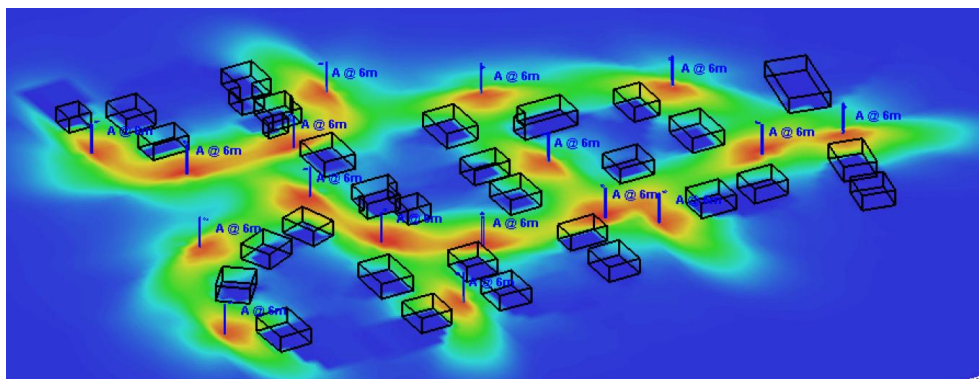


Figure 2.7.1 – Isoline plot (false colour rendering) layout indicating 6m height column locations

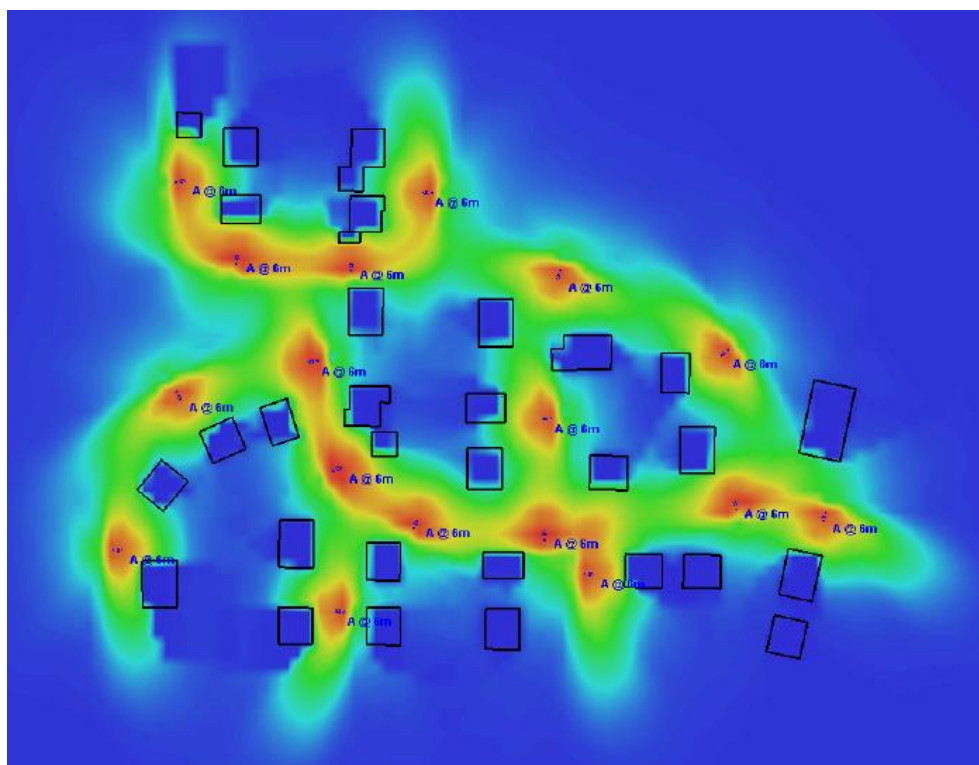


Figure 2.7.2 – Isoline plot (false colour rendering) layout indicating the road lighting calculation areas

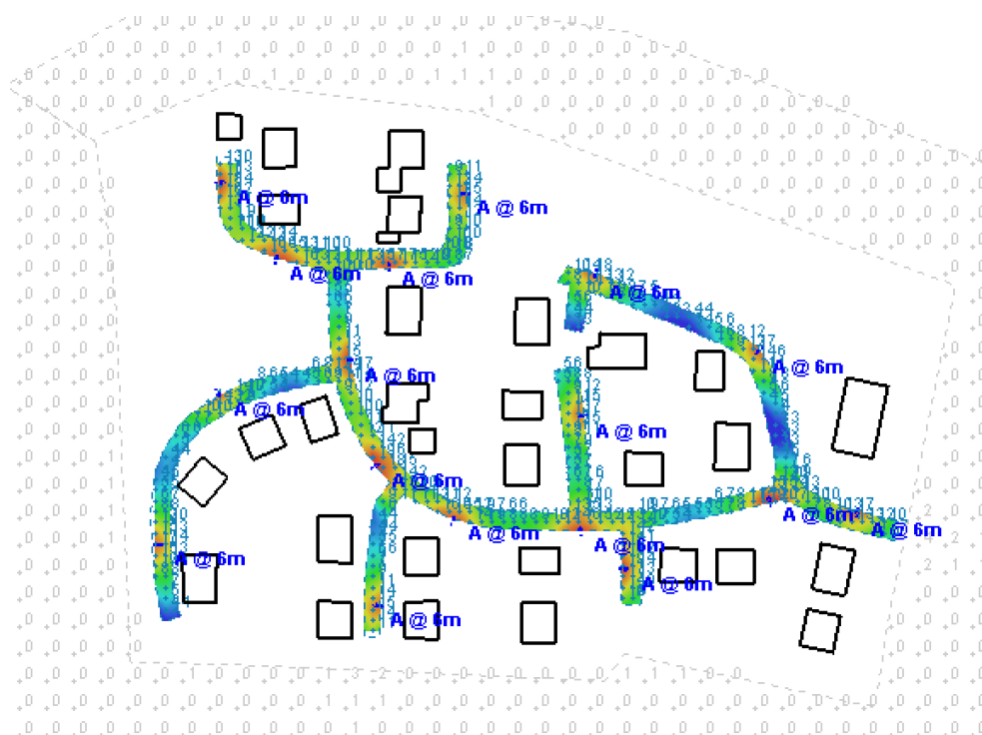


Figure 2.7.3 – Isoline plot (false colour rendering) layout indicating the road lighting calculation areas

Each isoline is assigned a lux level, detailed in image 2.7.4, and is expressed as the extent at which this level of light covers the roads within the proposed residential development.

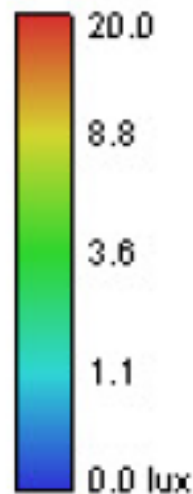


Figure 2.7.4 – Isoline legend for the proposed street lighting

2.8 LIGHTING CONTROLS

Lighting controls may be incorporated into future lighting schemes to manage hours of operation and reduce unnecessary illumination. Detailed control strategies are not included within the scope of this outline submission and would be subject to future design development and approval as part of a separate stage of works.

3.0 MITIGATION OF LIGHT SPILL

3.1 MITIGATION METHODS

The outline application confirms that light spill can be mitigated through a combination of measures, including:

- Sensitive positioning and orientation of luminaires
- Use of luminaires with controlled light distribution
- Retention and enhancement of boundary landscaping
- Coordination of lighting design with dwelling layout

No single mitigation measure is relied upon in isolation.

The identification of potential mitigation measures is provided to demonstrate feasibility only and does not constitute a commitment to specific measures at this stage.

4.0 SUMMARY

This External Lighting Statement demonstrates that, based on the indicative information submitted in support of the outline application, the proposed residential development is capable of accommodating an external lighting approach in principle, having regard to residential amenity and relevant guidance.

At outline stage, the assessment confirms that sufficient flexibility is retained to enable detailed lighting matters to be considered and resolved at subsequent stages of the planning process.

On this basis, external lighting does not represent an in-principle constraint to the grant of outline planning permission.