

External Lighting Report

Car Park – Coach Road, Whitehaven

1. Introduction

This report supports the planning submission for external lighting at a privately operated car park on Coach Road, Whitehaven. The purpose of the report is to describe the lighting scheme and demonstrate that it has been designed to provide safe operational illumination while protecting nearby residential amenity.

2. Site Context

The car park measures approximately 73 metres in length and 48.5 metres in width (central span). Residential properties are located to the east of the site. The nearest dwelling façade is approximately 6.5 metres beyond the eastern boundary wall. A 2.0 metre high solid wall forms the eastern boundary, providing screening between the car park and neighbouring properties.

3. Proposed Lighting Scheme

The lighting scheme has been designed to prioritise safety and security while minimising spill light and glare. Primary illumination is provided by three centrally positioned 6 metre columns fitted with CGC Orlando 100W LED amenity post-top luminaires. These fittings are mounted level (0° tilt) and operate at 4000K neutral white.

Seven 30W LED wall-mounted luminaires are installed along the eastern boundary at 1.7 metres height, spaced approximately 7.5 metres apart. These fittings are mounted flat to the wall, below the top of the 2 metre boundary wall, and face inward toward the car park. They are not angled toward residential properties.

4. Obtrusive Light and Residential Impact Assessment

The design minimises potential impact through several measures:

- Centralised 6m columns reduce brightness at the boundary.
- All luminaires installed with 0° tilt to prevent forward glare.
- Inward-facing wall lights prevent projection toward dwellings.
- Wall lights mounted below 2m wall height to reduce visibility.
- 6.5m separation distance beyond boundary reduces illuminance levels.

5. Operational Controls

Lighting operates via photocell control (dusk to dawn). As the car park operates 24 hours, continuous night-time illumination is required for safety and security. No upward-facing floodlighting is proposed.

6. Conclusion

The lighting scheme at Coach Road, Whitehaven has been carefully designed to balance operational requirements with protection of residential amenity. The use of centrally positioned columns, inward-facing boundary lighting, zero-degree tilt installation, and physical screening from a 2m boundary wall ensures that unacceptable light spill or glare toward neighbouring properties is unlikely.