

External Lighting Scheme

This External Lighting Scheme has been prepared, by Hopwood Hall Estate Ltd., in respect of the restoration works at Hopwood Hall, Rochdale Road, Middleton, M24 6XH.

The proposed lighting scheme at Hopwood Hall aims to enhance security around the hall whilst preserving its historic character, setting, and the amenity of surrounding buildings. This plan seeks to ensure that all lighting fixtures are sensitive to the Hall's heritage status and compliant with the standards set out by Historic England. The strategy considers both the temporary lighting that is currently in place and future enhancements planned for the Hall's redevelopment.

Existing Lighting

Temporary external lighting was installed at the Hall to prevent theft and vandalism of the site. This incorporates two types of lighting, ground-based uplighting and exterior wall-mounted security lights.

The ground-based uplighting is currently positioned at various points around the Hall's perimeter (identified as points 'A' on **Figure 1**) and is set at a height from ground level to one metre from the ground. These lights provide controlled uplighting to enhance security without overwhelming the historic façade. The temporary lights are mounted at an angle of 30 degrees to ensure effective illumination while minimising glare and overspill. Each uplight is directed upwards and avoid spillage into surrounding areas, particularly the environmentally sensitive Whittle Brook Corridor.

The wall-mounted security lights, installed at a height of approximately three metres on the Hall's exterior walls (identified as points 'B' on **Figure 1**), provide essential lighting for security purposes. These lights are angled downward at 45 degrees to avoid unnecessary upward illumination and minimise impact on neighbouring properties and the natural environment. The current luminance is moderate, with a lux level of 100 at ground level directly below the fixtures, ensuring that they are sufficient for security without being intrusive. Like the uplighting, these lights also will direct the beam downward and reduce light pollution.

The temporary fixtures will be upgraded to permanent, non-intrusive models that comply with Historic England's guidelines. The upgraded lighting will retain similar positions, heights, and angles. Materially, the lights will blend discreetly into the Hall's historic setting.

Proposed Lighting

As part of the Hall's restoration, additional external lighting is proposed to further enhance security. These new lighting fixtures (identified as points 'C' on **Figure 1**) will be positioned at key locations around the site to ensure widespread coverage.

The proposed ground-based uplights will be positioned at intervals of 10 metres along the Hall's exterior, with a height of ground level to one metre and angled at 25 degrees. These uplights will have a lux level of 80 and will be fitted with hoods to ensure that the light is directed upward towards the building, avoiding unnecessary light spillage into surrounding areas.

The proposed wall-mounted lights will be installed at a height of three to four metres, angled at 40 degrees downward to provide a soft glow around entrances and key access points, with a lux level of 120 directly below the lights. These fixtures will also be equipped with hoods to minimise glare and ensure the light is focused on the intended areas. The new lighting will be designed with energy-efficient technologies, including motion sensors, ensuring the lights are activated only when needed. This will further reduce unnecessary lighting impacts.

The relevant proposed example lighting fixture specifications have been detailed below, as in accordance with Historic England Requirements:

Wall mounted lighting fixture	Specifications
Black Country Metal Works Traditional “Giovanna” Bronze Top Fix Outdoor Wall Lantern	
	60 W, downward emission, IP44 ingress protection, heritage design
BEGA 22 372 K3 LED Wall Luminaire	
	7.0 W LED, downward emission, shielded luminaire, warm white 3000K, IP65 rating (suitable for outdoor use), low-profile design.
Ground-based uplighting specifications	
ETC140-GB-CC LED	

	12W LED, in-ground installation, warm white 3000K, IP67 rating (high weather resistance), glare control with shielded optics.
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Lighting Impact on Whittle Brook Corridor

The lighting scheme includes careful consideration of the Whittle Brook Corridor to minimise any adverse effects on this environmentally sensitive area. The light spillage from both the ground-based and wall-mounted lighting will remain well within acceptable limits, ensuring no disruption to the habitat around the Brook. This will ensure that wildlife and natural habitats are not negatively impacted by the lighting scheme. The strategic use of hoods and the careful positioning of lights will ensure that the majority of the light is directed toward the Hall, with minimal overspill into surrounding areas.

Frequency and Duration of Use

The external lighting at Hopwood Hall will operate according to specific timings to balance security with energy efficiency. The ground-based uplighting will be operational from dusk until dawn, but will be fitted with dimming controls that reduce the intensity of the lights during off-peak hours (typically between midnight and 5 AM) to further limit light pollution.

The wall-mounted security lights will be controlled by motion sensors and will only activate when movement is detected within the immediate area. This ensures that the lights are only in use when necessary, providing effective security while minimising their overall operational duration. The motion sensors will be sensitive to human movement but calibrated to avoid unnecessary activation due to small animals or environmental factors, further reducing the potential impact on the Whittle Brook Corridor.

Conclusion

The external lighting scheme has been design to provide comprehensive security lighting whilst preserving the Hall's historic and natural surroundings. The lighting will be installed at carefully selected positions, heights and angles, ensuring minimal disruption to the environment, especially to the Whittle Brook Corridor. The scheme includes the use of energy-efficient lighting and motion sensors to reduce unnecessary lighting.

All fixtures will be compliant with Historic England Heritage standards and there will be no significant impact on the nearby Whittle Brook Corridor ensuring the area's wildlife and natural habitats are protected.

Figure 1: Existing and Proposed Lighting Location Plan

