

**EXTERIOR
LIGHTING
DESIGN
STRATEGY**

Fresh Fuel (Ancoats) Ltd

LUMENATA

Complete Lighting Expertise

Issue 2
26th June 2025

LUMENATA

Complete Lighting Expertise



Introduction

Lumenata has been appointed by Fresh Fuel (Ancoats) Ltd to provide a revised external lighting strategy for 46 Henry Street, Ancoats, Manchester, M4 5DD. The original lighting scheme approved under planning consent has been impacted by the discontinuation of certain specified luminaires. This report outlines a revised design that closely reflects the original approved scheme while incorporating improved and currently available products.

This document is submitted in support of the discharge of Condition 10(a) of planning approval 136558/FO/2023, granted by Manchester City Council for the use of the ground and first floors of the premises as a restaurant (Use Class E), along with associated external works.

Condition 10(a) requires the submission of a revised external lighting scheme, designed to control glare and overspill onto nearby residential properties, to be approved in writing by the Local Planning Authority before the use commences.

This revised design maintains the original layout and lighting intent, uses warm white colour temperatures suitable for the surrounding urban environment, and complies with the Institute of Lighting Professionals' (ILP) Guidance Note GN01/21 regarding external lighting and environmental zone criteria.

For more information on this report, please contact:

Main Contact :	Paul Hindle
Contact Number:	07917 106 813
Email Address:	paul.hindle@lumenata.co.uk
Website:	www.lumenata.co.uk



- linear LED bars
- surface mounted adjustable spotlights
- Narrow Beam Window Reveal Lights
- surface mounted fixed wall lights

The originally approved exterior lighting design consisted of the following:

- 3 x linear LED bars to illuminate the zinc-clad chimney feature
- 3 x surface-mounted adjustable spotlights
- 2 x narrow-beam window reveal lights
- 3 x surface-mounted fixed wall lights providing downward illumination

This layout focused on enhancing the architectural detail of the façade while minimising disruption to adjacent buildings.



LUMENATA
Complete Lighting Expertise



surface mounted
fixed wall lights

Narrow beam
Window reveal
lights



The revised layout retains the same intent and lighting emphasis but updates product types due to changes in availability and design preference. The adjustable spotlights have been replaced with fixed wall-mounted luminaires to improve consistency and reduce variability. Also the LED bars have been omitted.

The proposed layout includes:

6 x surface-mounted fixed wall lights providing downward light

2 x narrow-beam window reveal lights

LUMENATA
Complete Lighting Expertise

Proposed Lighting Products

For the fixed wall lights, the Ansell Black Dugas wall light has been used with a 200 lumen, 36-degree, 2700K GU10 lamp. This reduced lumen output has been selected to ensure compliance with ILP GN01/21 guidance at sensitive residential receptors, namely the first-floor windows opposite the site (cill height approximately 4.5 m) and the residential block to the east, located 4.5 m away from the site and separated at ground level by the block's commercial bin store. The positioning of the lamp within the fixture ensures the luminaire is low-glare.

2700K is used as this is considered to be acceptable by ecologists concerned with nocturnal wildlife.

The fixed design ensures consistent beam direction post-installation and reduces the potential for misalignment. These luminaires are mounted to provide downward light only, with no upward or lateral spill.



LUMENATA

Complete Lighting Expertise

Proposed Lighting Products (continued)

Architectural Window Reveal Light:

To highlight the 2 first floor windows, architectural window reveal lights are recommended, as supplied by Luxle Lighting Supplies Limited. These lights give a very narrow beam of light to light inside the window reveal without spilling light beyond the window reveal. The lights use 7W 2700K LEDs, as this is considered to be acceptable by ecologists concerned with nocturnal wildlife.

This focused lighting approach helps prevent horizontal spill or upward glare, ensuring that the illumination remains confined to the intended architectural feature. These fittings have been selected to comply with best practice for urban lighting schemes in proximity to residential dwellings.

Lighting calculations confirm that vertical illuminance at nearby residential façades will remain within the ILP GN01/21 recommended limits for Environmental Zone E3, with maximum expected levels below 10 lux pre-curfew and below 2 lux post-curfew. This further supports that the design will not create visual disturbance or compromise residential amenity.



Lux Level Modelling

The final scheme highlights the architectural features of the building well, without detracting too much from the original agreed-upon lighting scheme.

Lighting calculations confirm that vertical illuminance at nearby residential façades remains within ILP GN01/21 Environmental Zone E3 limits. At the opposite residential façade, where residential use begins at the first-floor level with cill heights at approximately 4.5 m, the maximum illuminance is 1.94 lux. At the residential block to the east, situated 4.5 m from the site and separated from 46 Henry Street by its own commercial bin store at ground level, the maximum illuminance is 0.69 lux. Both results are comfortably within the ILP limits of 10 lux pre-curfew and 2 lux post-curfew. Commercial ground-floor frontages are not considered sensitive receptors under Condition 10 and are therefore excluded from this assessment.

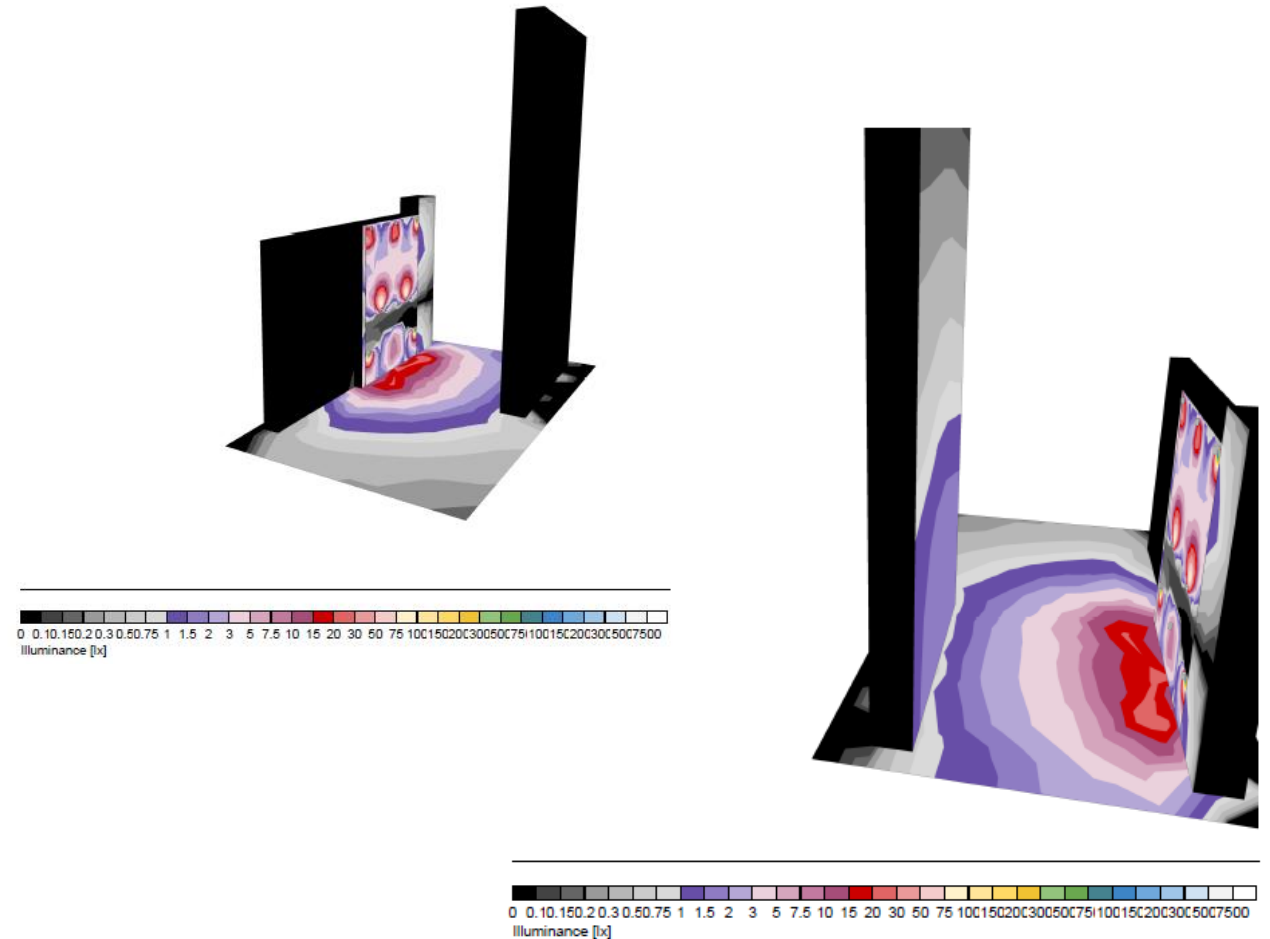
In accordance with Condition 10(b) of the planning permission, a formal post-installation verification report will be produced following completion of the installation. This report will confirm:

That all fittings have been installed in accordance with the submitted design

That measured lux levels align with the model presented in this report

That any minor adjustments required to meet the approved specification have been carried out

This ensures the scheme complies with both the visual design and performance requirements relating to overspill, glare control, and residential amenity as outlined in ILP GN01/21.



LUMENATA

Complete Lighting Expertise

Conclusions

Lumenata believes that the lighting scheme demonstrated in this document is an enhancement over the original lighting scheme, as the replacement of adjustable spotlights with fixed wall lights provides a more robust scheme that is less open to variability by the operator.

Other than this, the revised scheme is very close to the original scheme that was approved by Manchester City Council, and we feel should be acceptable to the Local Planning Authority as a result. This revised scheme continues to reflect the approved design intent while incorporating more durable fittings with improved directional control. The use of 2700K warm white lighting, anti-glare louvres, fixed beam angles, and post-installation verification ensures a controlled, minimal-impact solution appropriate for a mixed-use urban setting.

Summary of residential calculation results:

- Opposite residential façade (first-floor, 4.5 m cill height): average 0.67 lx, maximum 1.94 lx
- Eastern residential block (4.5 m from site boundary, separated by bin store): average 0.24 lx, maximum 0.69 lx
- Both results fall within ILP GN01/21 Environmental Zone E3 requirements (≤ 10 lx pre-curfew, ≤ 2 lx post-curfew).

Other façades tested, including commercial frontages, are not relevant to Condition 10 and have not been included in this summary

Policy Alignment and Compliance

This lighting strategy addresses the reason Condition 10(a) was imposed:

"To safeguard the amenities of the occupiers of nearby properties in accordance with Core Strategy Policy DM1 and the National Planning Policy Framework."

Core Strategy Policy DM1 requires development to:

- Avoid harm to residential amenity
- Prevent nuisance from light, noise, or disturbance

The NPPF requires planning decisions to:

- Avoid unacceptable effects on living conditions, particularly from light pollution

This scheme meets those requirements by:

- Using 2700K warm white lights with anti-glare features
- Preventing overspill with shielded, fixed luminaires
- Confirming compliance with ILP GN01/21 lighting guidance
- Committing to post-installation verification and reporting

This report is submitted to formally discharge Condition 10(a) of planning permission 136558/FO/2023. A separate verification report will be provided post-installation to address Condition 10(b), confirming that the installed scheme performs in accordance with the approved lighting design and maintains protection of neighbouring residential amenity.



LUMENATA

Complete Lighting Expertise

Lighting Calculation Summary – Residential Receptors

The following results are taken from the calculation report (Rev 2) and demonstrate compliance with Condition 10(a) of planning approval 136558/FO/2023:

- Opposite residential façade (first-floor windows, 4.5 m cill height): Average 0.67 lx, Maximum 1.94 lx
- Residential block to the east (4.5 m separation, with commercial bin store at ground level): Average 0.24 lx, Maximum 0.69 lx

Both residential receptors remain comfortably within ILP GN01/21 Environmental Zone E3 thresholds, confirming that the scheme avoids unacceptable light spill or glare onto nearby dwellings.

See attached Appendix A for detailed lighting calculations



LUMENATA

Complete Lighting Expertise

LUMENATA

Complete Lighting Expertise

www.lumenata.co.uk

01772 312 416