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C00095

PRINTWORKS
MANCHESTER

EXTERNAL LIGHTING VERIFICATION REPORT
10/05/2025

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01 – Introduction.

Performance Electrical Limited (PEL) were employed by John Turner Construction Group to Design, Supply, Install & Commission the Electrical Services. The project consisted of Lighting, External Lighting, Mains Distribution, Cat 6 Data Cabling, Small Power, AV Systems and Fire Alarms as part of the Refurbishment Scheme.

Information received as part of the 'Tender Documentation' from Cundall's consisted of Stage 3 information, not limited to Drawings, Lighting Design Specification, Luminaire Schedules etc.

The purpose of this report is to validate that the work undertaken throughout the development conforms to the recommendations and requirements in the approved light consultant's (Cundall's) report.

This document is to fully demonstrate that the installation is fully compliant with in accordance with the Cundall Printworks Concept document as approved as part of Planning Application 125294/FO/2019.

This report also covers post completion testing to confirm that acceptable criteria has been met including not exceeded requested within the planning application as stated above.

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02 – Conformity Information.

This report has utilised the following information:

The building services installation is to be designed in accordance with British Standards and legislation applicable under English Law. Where good engineering practice is not covered by British Standards or legislation the relevant guides produced by the Chartered Institute of Building Services Engineers (CIBSE) is to apply.

In addition to the above, all electrical installations are to be undertaken in full compliance with manufacturers recommendations and guidance.

The basis of the design criteria has been taken from and is to be applicable to, but not limited to the following documentation:

- BS 7671, The IET Wiring Regulations (latest edition, including all amendments)
- BS 7430 - Code of Practice for Earthing
- British Standards and BS Code of Practice
- The Electricity at Work Act
- The Health & Safety at Work Act
- BSEN 62305 – Lightning Protection
- Construction Design & management (CDM) Regulations
- Building Regulations
- Local and Statutory Authority Requirements
- BCO Guidance
- CIBSE Guides and Technical memoranda
- CE Marked (all equipment)

Also refer to the descriptions and criteria for each specific electrical service.

For the output parameters and capabilities of all LED screen enhancements refer to the architects LED screen tender specification PWM-CDA-01-ZZ-SP-A-0003.

A complete external lighting installation is to be provided for the building which is to be designed, supplied, installed, tested and commissioned in accordance with all appropriate standards, codes of compliance and applicable regulations.

The external lighting design has been undertaken and completed the Light 4 team. For details on The Printworks lighting design please refer to the Light4 tender document.

The proposed external lighting design is to be served via the existing external lighting dedicated Distribution Board, located on the second level and accessible by the core 9 staircase. All existing tenant signage to be relocated is to have all appropriate lighting and power relocated accordingly.

03 – Description of Testing.

PEL visited site on Thursday, 8th May 2025 to undertake Lighting Level check around the perimeter of the building. We have plotted the results onto 2x PDF Drawings indicating test results for Pre 10PM and Post 10PM. These drawings are documented within this report.

The unit of Measurement was in Candelas/m2. The meter used was a Konica Minolta T-10 meter and was calibrated on 24th October 2024 and the certificate number is 154912/ADU.



The purpose of these tests were to ensure that the Light output, particularly the Illuminated Signage did not exceed the agreed 300cd/m2.

04 – Drawings.

These are attached to the report.

Drawing pre 10pm
Drawing after 10pm

05 – Conclusion.

PEL would conclude that the measurements/readings taken are generally as expected and are compliant with the specialist lighting design documents for this project initially produced by Cundall.

The main point being that the external illuminated signage falls within the 300cd/m2 requirement. This is made possible by the DMX programming reducing the overall illumination to 50% output after 10pm. Whilst the actual readings don't actually drop by 50%, this is due to other light factors which you would expect to find in a busy city centre such as Street Lighting, vehicle headlights and surrounding retail lighting.

BEFORE
10pm

0 0.5M FROM SOURCE

0 6M FROM SOURCE

0 12M FROM SOURCE

ALL UNITS ARE IN = CANDELA/m2

PEL

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Project:
Printworks
Manchester

Drawing Title:
LIGHTING VERIFICATION
MEASUREMENTS
BEFORE 10PM

Date:	Scale:
N/A	1:200 @ A0
Rev:	Drawing Number:
N/A	N/A


AFTER
10pm
0 0.5M FROM SOURCE
0 6M FROM SOURCE
0 12M FROM SOURCE
ALL UNITS ARE IN = CANDELA/m2
Bus Station
Federation Building
Balloon Street
LOADING ONLY
DISABLED
TAXIS
BUS STOP
PEL
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Project:
Printworks
Manchester
Drawing Title:
LIGHTING VERIFICATION
MEASUREMENTS
AFTER 10PM
Date: N/A
Scale: 1:200 @ A0
Rev: N/A
Drawing Number: N/A