

40 - 46 Princess Street

External Lighting Report

Document Revision History			Ref:	C1150 GOW
Rev	Author	Verification By	Date	Comments / Status
1	GW	GW	18.09.23	Final Draft

40 - 46 Princess Street

Contents

1	Introduction	Page	2
2	Site Plan	Page	3
3	Site Overview	Page	4
4	Lux Levels	Page	5 - 6
5	Summary	Page	7

40 - 46 Princess Street

1 Introduction

As part of the refurbishment works to 40 - 46 Princess Street there was a requirement to install external lighting to the right hand side of the building to cover the escape routes and enhance security.

The external lighting is controlled via a photocell which brings the lighting on at dusk and switches off at dawn however we have implemented a hold of facility between the hours of 23.00 - 06.00 which can be altered to the requirements of the land lord.

The lighting is manufactured by Lighting motions and generally wired in 6491B type cabling routed in galvanised trunking & conduit mounted to the vertical plane

This report was compiled for the lighting in what is known as the courtyard between the neighbouring buildings

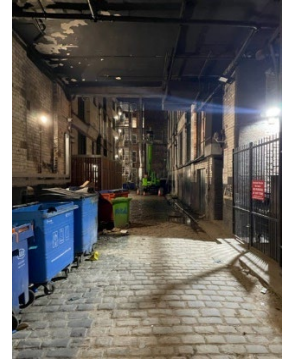
2 Site Plan



3 Site Overview



View of lighting down alleyway upon arrival



Same view with neighbours lighting on



Archway lighting with neighbours security light added



View of lighting beyond archway



View of lighting beyond archway prior to neighbouring security light triggered



View of far end (Neighbours light triggered)

3 Lux Levels



Lux Level 3.71 at reference point A



Lux level 68.5 at reference point B
(Interference from neighboring light)



Lux level 5.18 at reference point C



Lux level 5.11 at reference point D



Lux Level 2.37 at reference point E



Lux level 17.84 at reference Point F
(Partial interference from neighbouring light)

3 Lux Levels



Lux level 8.80 at reference point G



Lux level 20.1 at reference point H
(Partial cast off neighbouring light)



Lux level 46.5 at reference point I
(Partial cast off neighbouring light)



Lux level 1.67 at reference point J



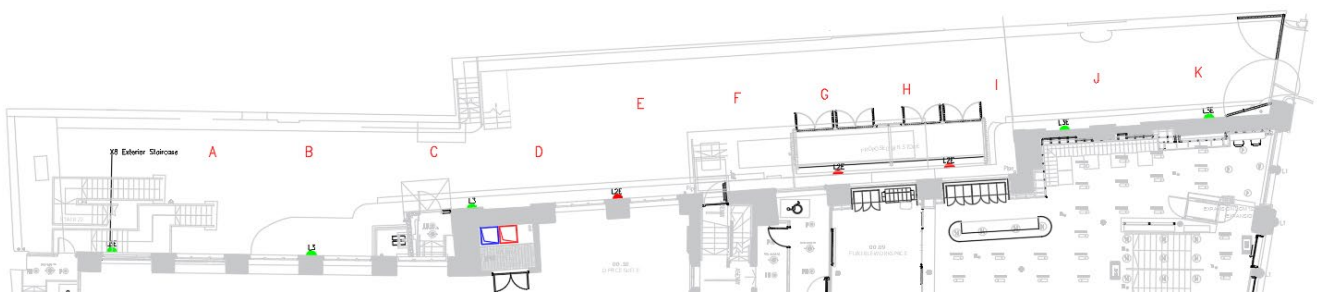
Lux level 9.65 at reference point K



Lux level 42.7 at reference point L
(Neighbouring light over powering ours)

5 Lux Level Test

Site: Princess Street Date: 18.09.23 Time: 9pm
Weather: Partially cloudy skies with intermittent rain



READINGS TAKEN FROM ALONG THE COURTYARD IN BETWEEN BUILDINGS

Summary (Lux)

Position A	3.71	Position G	8.8
Position B	68.5	Position H	20.1
Position C	5.18	Position I	46.5
Position D	5.11	Position J	1.67
Position E	2.37	Position K	9.65
Position F	17.84	Position L	42.7

Summary

The lighting levels were consistent apart from where we receive interference from neighbouring security lights, Uniformity is good with a good level of output without being too bright.

In order to mitigate any impact post curfew the lighting controls can be set to turn lights off at 11pm and back on at 6am