

Planning Lighting Spill Assessment

Date: 19th June 2018 Job number: 35017

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Checked by: - Client: ÆRIANCE Investment

Purpose of issue: Information Revision:

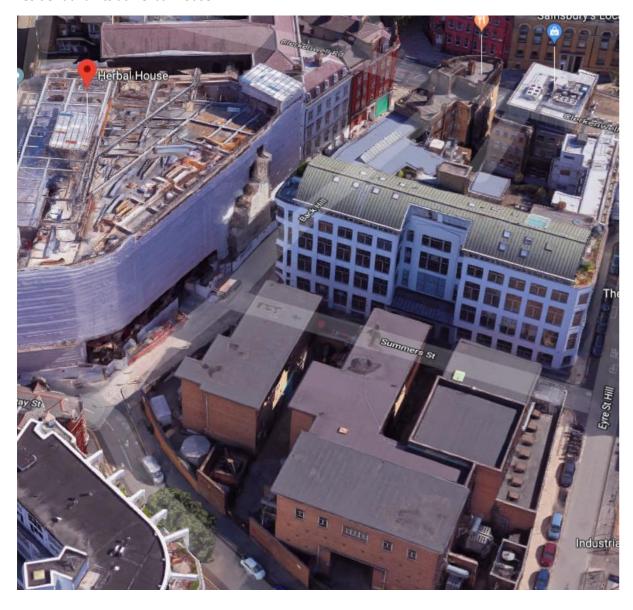
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1.0 Introduction

This document has been produced to determine the light spill that may affect the building adjacent on Back Hill Road.

GPDE Ltd have run the calculation for all external lighting that has been specified on the balconies for the residential units at Herbal House.



2.0 Calculations and Results

As can be seen from the calculation screen shots below. The Eav (average illuminance) on the closest occupied residential property is circa 0.70lux with a high of 1.42lux and a low of 0.09lux.

Figure 1: Summary of calculation grid

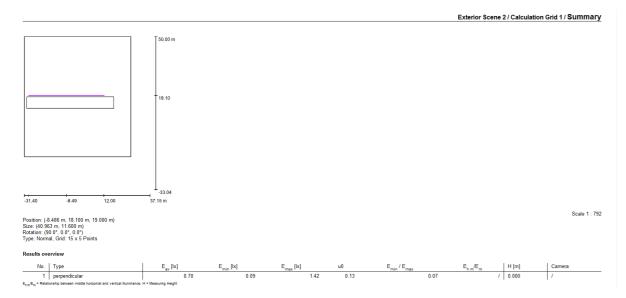


Figure 2: Visualisation of external lighting scheme



Figure 3: Visualisation of false colour rendering of external lighting scheme



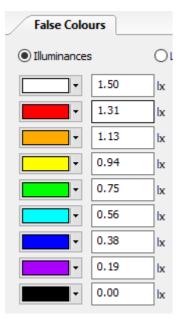


Figure 4: Beam orientation of fittings

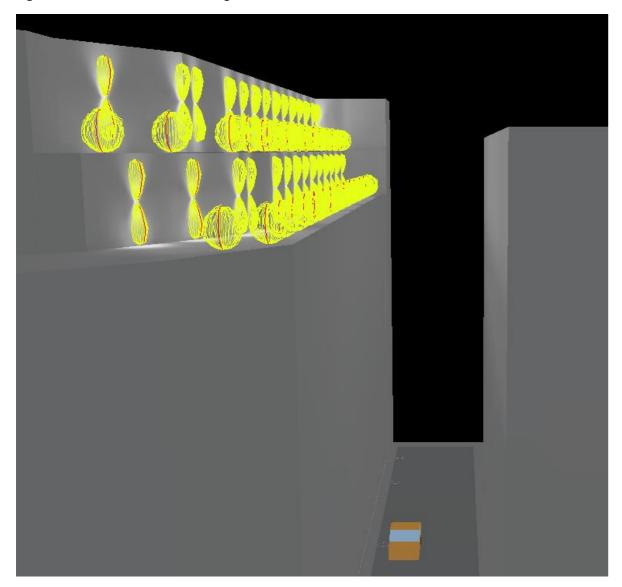
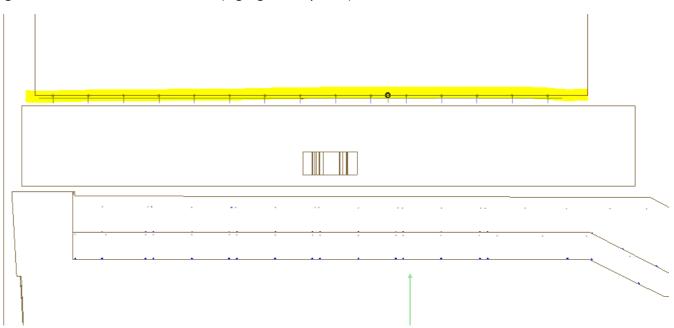


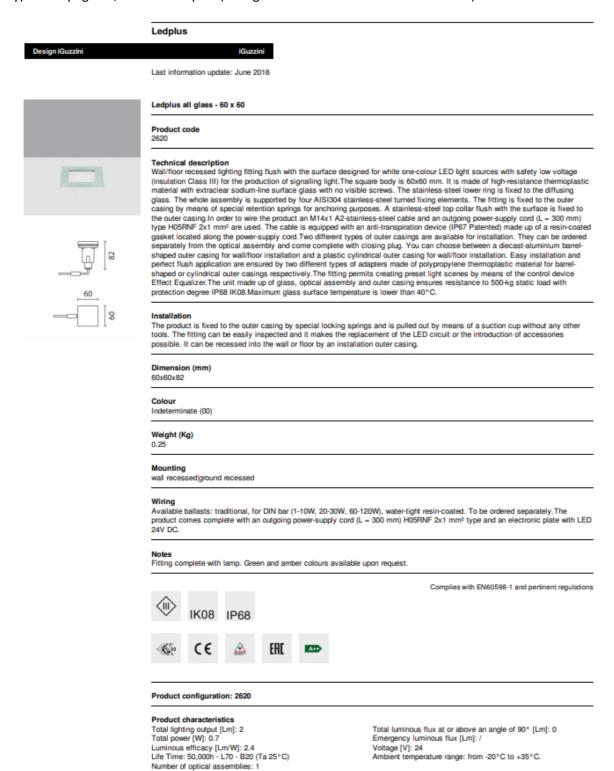
Figure 5: Location of calculation zone (highlighted in yellow)



3.0 Details of Fittings

The below is a brief description of fittings that have been utilised to complete the calculations above.

Type K – uplighter, iGuzzini Ledplus (changed from Tender unit – Flos A Round)



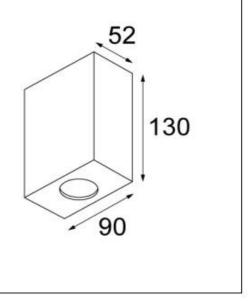
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Type J – wall light, Modular Sulfer (in black)

SULFER







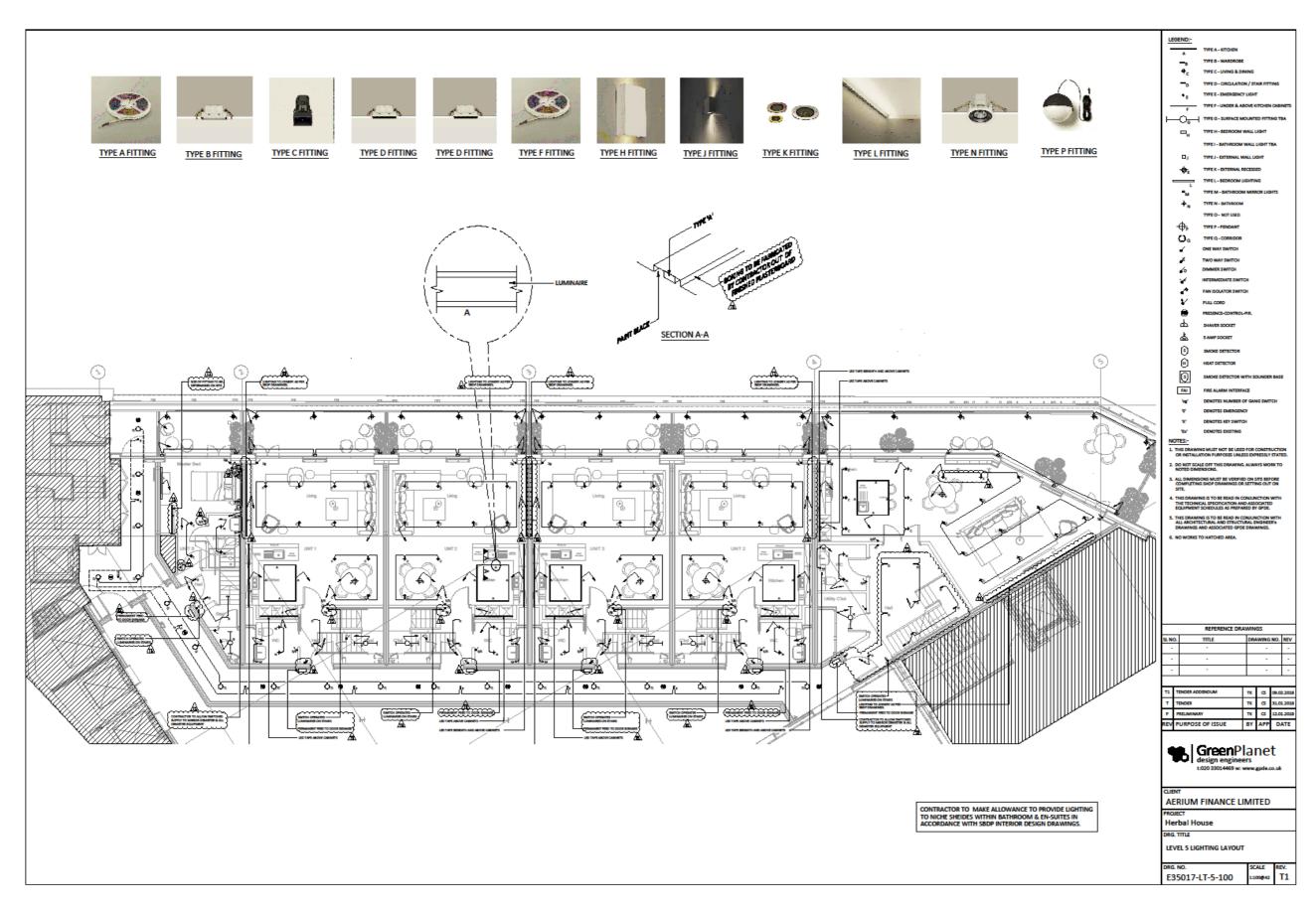
SULFER LED IP54 GI

Sulfer is a minimalist square-shaped fixture. The cast aluminium luminaire brings a modern accent to walls, whether in- or outside (IP54) homes, hotels, restaurants, etc. By default, Sulfer diffuses a wide beam (flood), yet the fixture comes optionally with additional beam angle plates (medium and small) to let you customize the beam. Since the diffuser is recessed into the casing, Sulfer shines indirect light, ensuring you will never be blinded by its beam.

Art Nr.13270232				
SPECIFICATIONS				
Lamp	2x LED Module 3W			
Gear / Transfo	LED gear incl.			
Weight				
Min. Distance	0.1 m			
Power supply	230V			
IP	IP54			
Glow Wire Test	960*			
Lifetime	L80 B20 @ 50.000 hrs			
CRI	90			
Lumen	284 Lm			
Efficacy	36 Lm/W			
UGR	12.1			
Adjustability	Not Applicable			



4.0 Appendix 1 – Level 5 lighting layout



5.0 Appendix 2 – Level 6 lighting layout

