



LIGHTING STATEMENT

for the

THE REDEVELOPMENT OF THE FORMER CHIVER'S FACTORY SITE

at

**COOLOCK DRIVE
DUBLIN 17**

for



PLATINUM LAND LTD.

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1.0 INTRODUCTION

This Lighting Statement was compiled by METEC Consulting Engineers in March 2019 on behalf of our client, Platinum Land Ltd, as part of the Planning Submission for the proposed redevelopment at the former Chiver's Factory Site in Coolock Drive, Co. Dublin.

Lighting columns and other fixtures can have a significant effect on the appearance of buildings and the environment and where proposals for new lighting require planning permission, it is critical to ensure that they are carefully and sensitively designed. Lighting fixtures should provide only the amount of light necessary and should shield the light given out so as to avoid creating glare or emitting light above a horizontal plane.

To require lighting design to be appropriate to the end use in relation to residential areas, footpaths, urban streets and highways.

The report develops the lighting Design with considerations taken as follows:

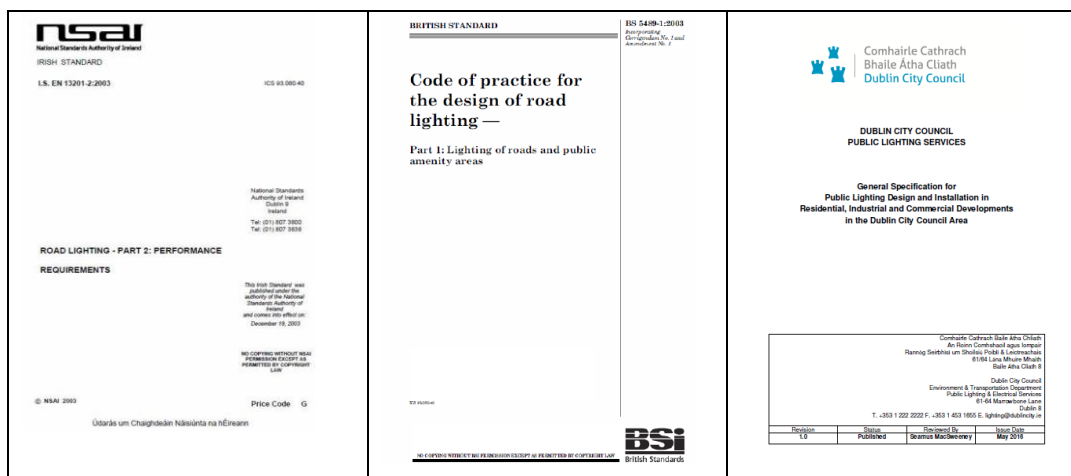
- To provide adequate levels of lighting to allow the safe use of the access roadways and pathways for vehicular and pedestrian use respectively;
- Minimise light spill on the surrounding areas external to the site; and
- Use highly efficient luminaires with programmable controls that can be set to meet requirements of multiple governing bodies.
- Illumination on designated pathways/public amenities reduces the risk of anti - social behaviour.

Dublin County Council mini pillar locations are indicative, Positions to be agreed. Lighting pole positions to be incorporated with landscaping drawing to avoid potential clash/intrusions on light spill.

2.0 ENGINEERING BODIES, RECOMMENDATIONS AND GUIDES

The design criteria applied to the proposed external lighting installations are in accordance with the following standards and guidelines:

- BS 5489-1:2013 Code of Practice for the Design of Road Lighting;
- NSAI EN I.S. 13201-2 Road Lighting Performance Requirements; and
- Dublin City Council General Specification for Public Lighting Design and Installation in Residential, Industrial and Commercial Developments in the Dublin City Council Area.



3.0 PROPOSED INSTALLATIONS

Proposed Luminaires:



iGuzzini Wow



iGuzzini Twilight

Road Classification	Mounting Height	Lantern Mounting	Type of Lamp
Main Entrance, Sub-Roads	8m	7.79	LED iGuzzini Wow 70.4W 8000lm
Internal Parking Areas	6m	5	LED iGuzzini Twilight 31.9W 3580lm
Parkland Area	6m	5	LED iGuzzini Twilight 31.3W 3580lm

4.0 DIALUX RESULTS

Figure 4.1 below indicates the predicted illumination levels on the Ground for the proposed installation. Illumination is indicated using False-colour rendering generated with example buildings for illustrative purposes only from DIALUX.

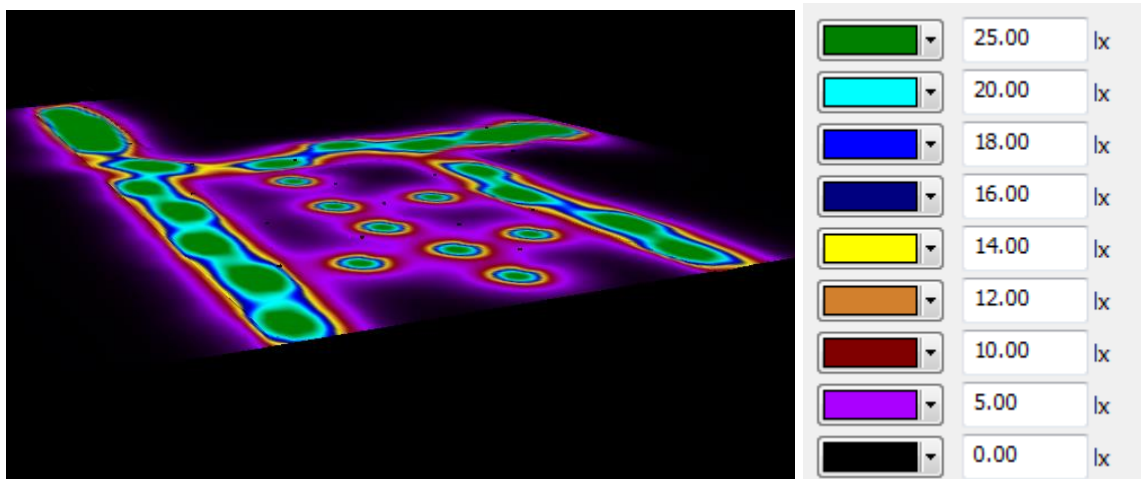


Figure 4.1: Main Site Roadway (20 Lux Average 0.4 Uo)

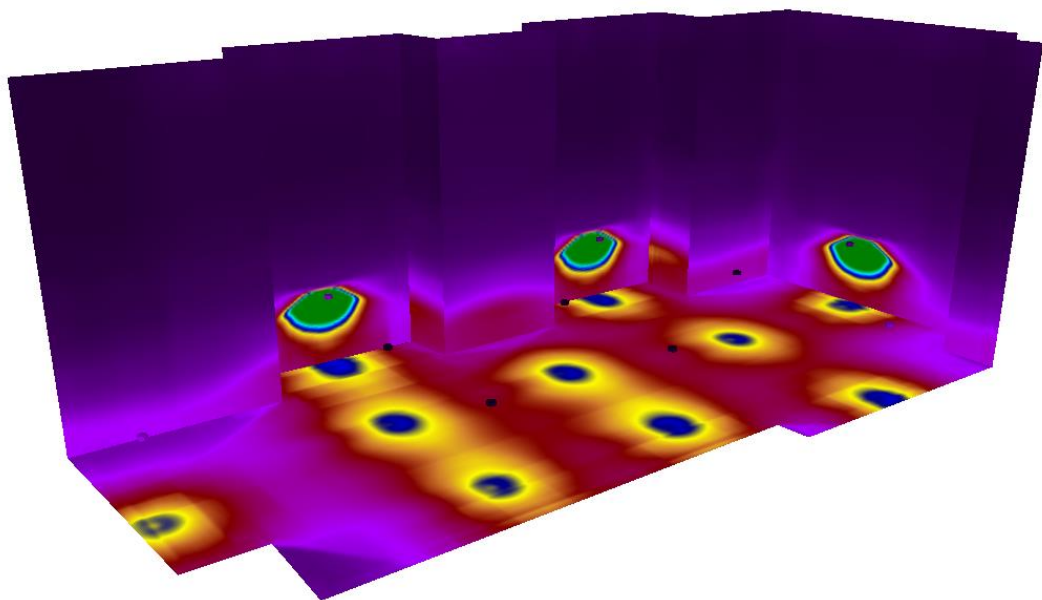


Figure 4.2: Sample Car Park Lighting Levels (10 Lux Average 0.4 Uo)

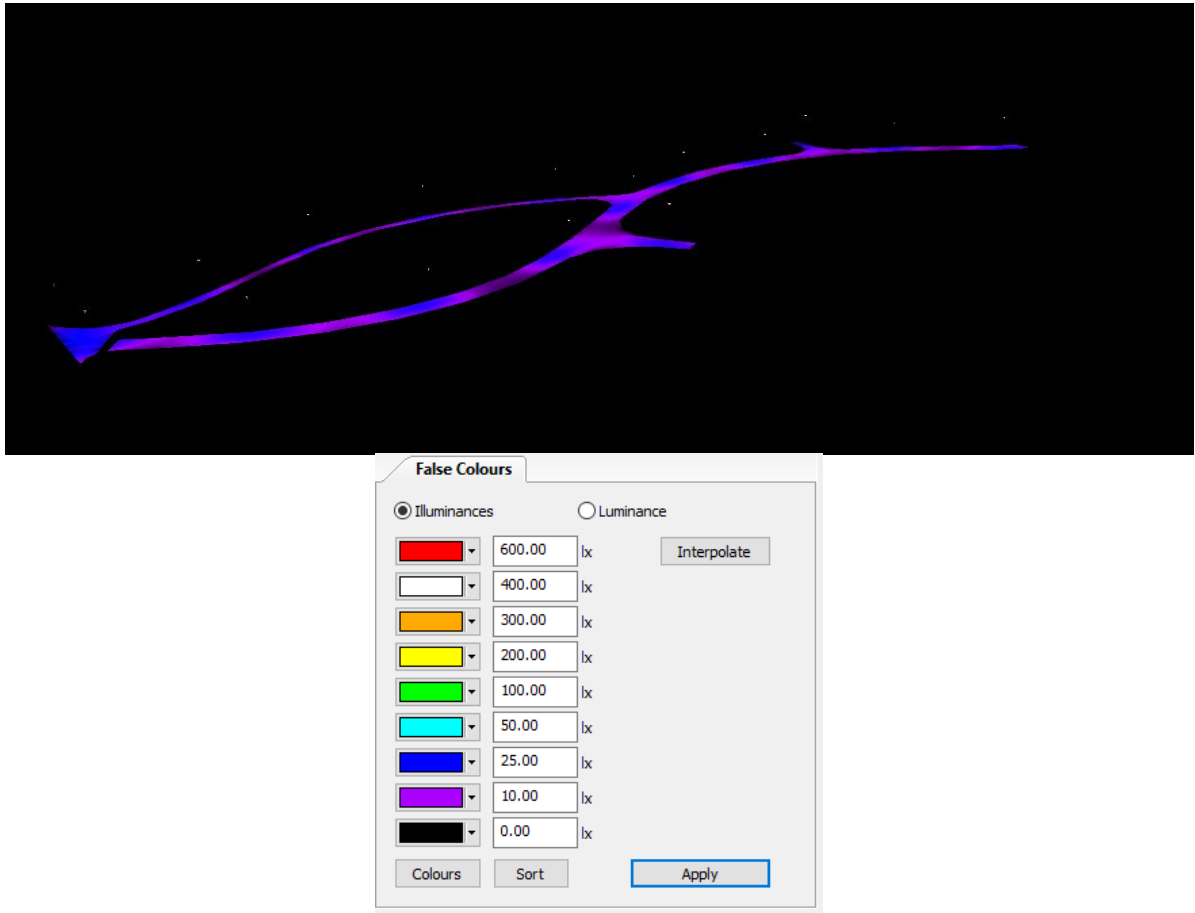


Figure 4.3: Parkland Area Lighting Levels (10 Lux Average 0.4 Uo)

5.0 CONCLUSION

The recommended fittings are appropriate in providing the required design requirements on the proposed residential development.

The pole mounted IGuzzini WOW fitting provides the residential areas with a different aesthetic to the aesthetic provided by the IGuzzini Twilight fitting pole mounted within the Parking Areas/Parkland area.

The IGuzzini WOW fitting pole mounted along the Roadways:

The document specifies low pressure sodium lights or mercury lighting. IGuzzini, Wow. We have specified LED lighting in previous projects in relation to the potential lighting impacts on the bat roost which have been deemed acceptable.

The IGuzzini Twilight fitting pole mounted within the Parking Areas:

The document specifies low pressure sodium lights or mercury lighting. IGuzzini Twilight. We have specified LED lighting in previous projects in relation to the potential lighting impacts on the bat roost which have been deemed acceptable.

The pitch/angle of the fittings will be required to be at a minimum as to minimise any potential spillage and to ensure the design is appropriate in limiting the impact to bats. The luminaire shall be controlled via time clock & Photocell. This will allow the luminaires to be operated at a predetermined time.

It should be noted that the results shown here are design intent only however the final external lighting design shall comply in full with the standards referenced in Section 2.0 of this report.