



# Chris Murphy Consulting Engineers

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Date: 17/11/2023

Boyer Planning  
120 Bermondsey Street,  
London SE1 3TX

Attention of Zoe Curran

Re: External Lighting Design Narrative 527 Finchley Road - 2023/4187/P

Dear Zoe

As per recent correspondence we outline below our design and switching narrative as requested.

## **Design Narrative**

The external lighting has been designed with 3 basic functions in mind, those being.

- 1) Emergency lighting to aid escape in accordance with IS [3217:2013+A1:2017 and BS 5266-1:2011](#)
- 2) Institute of Lighting Professionals (ILP) Guidance Note 01/21 The reduction of obtrusive Light.
- 3) ILP Guidance Note 08/18 Bats and the built environment.

The proposed fitting shall be the City WP wall mounted fitting with a "Warm Light" colour temperature of 2700K and a peak wavelength of >550nm. The design ensures a minimum illumination of 2.5 lux at ground level in accordance with IS 3217. Fittings on the side and rear of the unit will be located at an agreed height so as they cannot be seen from surrounding properties but still provide the necessary light for emergency purposes and maintenance as required. As can be seen from the Polar diagram below there is no light



Rev2

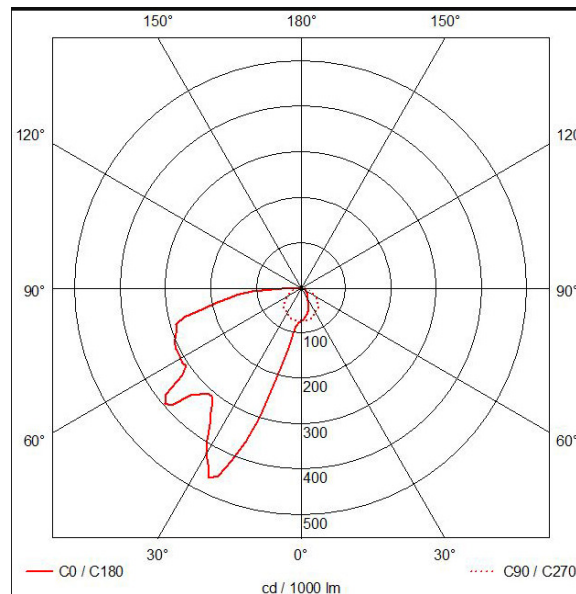


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emission above the 90 degree plane however the reduced height ensures total elimination of any potential of glare to surrounding properties  
The light fittings at the front of the building will be mounted at 2m above ground level.

Polar Diagram of proposed light fitting



## Control Narrative

Control of light fittings to the sides and rear of the unit shall be via a single gang electronic time delay On/Off switch. Capable of an adjustment period of 2mins to 20 mins fitted with a tamperproof facility so in the event of a fault in the switch the lighting on the sides and rear of the building will fail to the off position after the programmed time period.

There shall be no Presence Infra-Red (PIR) control on the sides or rear of the unit.



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The installation of the time delay on off switch will allow the lighting to be turned on for up to 20 minutes before they automatically turn off.

In the event of an emergency situation lights will remain on via internal batteries for up to 3 hours as per the requirements of IS 3217.

The light fittings to the front of the building will be controlled via PIR devices located on the front of the building as per the design drawing. The PIRs will energise the light fittings on the front of the building only when triggered by approaching pedestrian traffic, these fittings will switch off after a predetermined time. The PIR's shall be ERA Pet Friendly Motion Sensors or similar and as such will not be triggered by animals that weigh less than 25Kgs. As a failsafe a time clock shall be added to the PIR circuit allowing it to be timed off after 6pm. The above specification will allow safe day to day access to the building, emergency egress if required whilst avoiding out of hours nuisance switching of light fittings and unwanted glare to adjoining properties, with minimum impact on local habitats

We trust the above and attached are as per your requirements however should you require any further information, please do not hesitate to contact me directly.

Regards

Christopher Murphy MCIBSE

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Authorised Signatory  
for and on behalf of Chris Murphy

