

Fagerhult UK Ltd
33-34 Dolben St, SE1 0UQ
30.09.2019

Re: Tim Horton Gravesend Additional External Lighting

Tenant Unit: Tim Horton

1.0 Introduction

This document outlines the strategy for the additional external lighting design of the retail development, Tim Horton Gravesend. We will outline the steps taken to assess the area to be designed and comply with relevant standards without compromising on the lighting design.

2.0 Lighting Concept

This project has been designed to comply with BS5489 exterior car park and also has been checked against the ILP guidance for the reduction of obtrusive light. Due to the expected amount of traffic during peak times and the mixture of vehicle and pedestrians we have designed this area to suit Heavy traffic requirements of 20 Lux average and 0.25 uniformity.

When looking at the ILP guidance we believe this area should be classified as E4 Urban, to comply with this guidance we have selected a luminaire with 0% ULOR, shown the average levels for the building façade is below the recommended max of 25Lx pre curfew and fittings are not to be angled past 0 degrees. There are no buildings in close proximity to check light intrusion through windows. In addition to this the Evolume fitting benefits from CLO (constant light output) ensuring the product provides the correct lumen output over it's lifetime, rather than over lighting in the first instance and allowing the light output to degrade over time. Fagerhult is confident of the quality of its light products providing a lumen maintenance figure based on 100 000 hours.

3.0 Lighting results

Please see our lighting calculation for full details of the lighting levels:
PLOT - Tim Hortons Gravesend REV 4 EXT

In summary we achieve the following lighting levels:
Drive Thru = 21.5lx average and 0.25 uniformity
South elevation = 4.66lx average on building facade
East elevation = 12.9lx average on building façade.

Please note that this is for additional lighting only.

If any further information is required please do not hesitate to contact me.

Sincerely,



Dave Hughes
Retail Design Manager