

## **Re: Reported high Lux levels within various HPT Kitchen areas**

Project: Cartwright Gardens

Date: 19<sup>th</sup> December 2019

By: Mark Leech

Date/Time of survey: Wednesday 18<sup>th</sup> December 2019 @ 0900 Hours

Surveyor: Mark Leech

### **Reason for the survey**

Briggs and Forrester installed the LED downlights to all areas including the communal kitchens in Hughes Parry Tower, therefore are deemed responsible for any reported issues.

Lee Scruton of UPP requested and arranged for the survey to be carried out and Mark Leech (Living Aftercare and Small works Manager) attended to carry out the review.

Mark is a qualified electrician and holds various mechanical and electrical certificates to prove he is of a suitable level to carry out this survey and issue a report of findings.

It is understood that all kitchen/diner areas are of similar layout and brightness from the 1st floor upwards.

### **Findings**

The first area to be checked was the ground floor kitchen within Hughes Parry Tower, the window blinds were closed and the LUX level was checked using a calibrated LED approved meter.

The first area is as per Fig 1 – Shows the set up for the level recording at table height. The Lux level in this location is shown in Fig 2 – 145.3 Lumens

We reviewed next Fig 3 - 6 14<sup>th</sup> floor HPT kitchen. We looked at both the TV seating area and also the dining areas. Both of the areas do not offer any evidence of excessive light levels when blinds are drawn. The highest recorded value was in the dining area of the 14<sup>th</sup> floor but this reading of 254 Lumens is still acceptable.



Fig 1 – Ground floor Kitchen of HPT- Blinds drawn. 202 Lumens



Fig 2 – Lux recording at table height ground floor kitchen of HPT is 145.3 Lumens



*Fig. 3 showing the seating area layout on the 14<sup>th</sup> floor close to the TV area.*



*Fig. 4 showing the recorded level in the TV area 14<sup>th</sup> floor, lux level 156.7 Lumens*

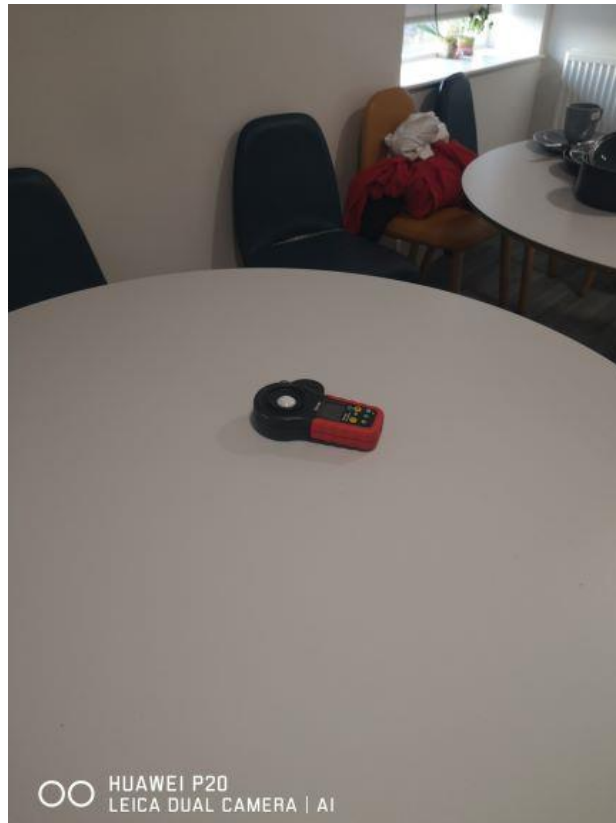


Fig. 5 showing the location for testing, 14<sup>th</sup> floor Kitchen dining area.



Fig.6 showing recorded Lumen in the dining area of HPT 14<sup>th</sup> floor kitchen

## Conclusions

There were no areas reported with excessive lighting levels but we did not have any guidelines as to specific areas that were deemed as being too bright.

On the 14<sup>th</sup> floor there are signs of blue tac being applied to cover the lights with paper to reduce glare but this area was within the design specifications which show average of 200 Lumens for dining areas.

It appears that the issue is a complaint that “it is too light to be comfortable whilst relaxing and watching TV” rather than the levels are too bright parse.

If it is declared that the areas are too bright for relaxing it is recommended that the fittings are replaced to give a better diffused light pattern (care must be taken in the design as there are guidelines for kitchens to ensure enough light to prevent risks). Or install of local isolation or dimming but this will offer a risk as to students leaving the lights on as they currently are PIR controlled.

Any alterations can be discussed and costs supplied.