

Review of existing lighting carried out prior to making recommendations

CeX Entertainment Exchange store, Camberley, Surrey



Due to poor (Ra50-60) colour rendering of existing tubes the coloured products looked old/unappealing.

Many of the tubes had also yellowed and become visibly dimmer which compounded this situation.

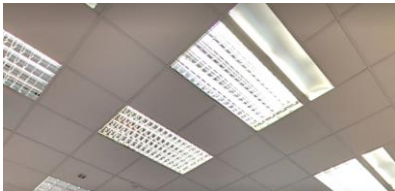
We suggested high-CRI LED or triphosphor 840 T5 tubes. We did not suggest daylight tubes as we felt it would be too stark a change and in fluorescent T5 these are less energy-efficient than T5 840 tubes.

Due to low penetration of daylight we observed that the low-frequency magnetic ballasts were causing visible distracting flicker.

We recommended high frequency ballasts whether client chose LED or T5-fluorescent options. We warned client that some cheap LED lights are not true high-frequency (we've supplied many LEDs to our client Public Health England who lab-tested them against competitors)



We saw that the layout of lighting had been chosen to provide illumination to the upper walls consistent with the aims of LG7 (Lighting Guide) and that these matt white walls dispersed some light to the ceiling, so for this reason we did not encourage the client to change the central Cat2 and perimeter wall-wash lighting to flat diffused panels.



The existing light-fittings and diffusers were in good condition which encouraged us to suggest and model paybacks based on our imported and stocked LED tubes, and as an alternative our own proprietary model of T5-adapters called ClickSave.

We demonstrated LED tubes and T5 adapters to the Director on site. We also showed a working LED PL-L 4-pin retrofit lamp which was also from one our main LED retrofit supplier factory made to my specification. The client chose the T5 adapter and the LED PL-L retrofit.



We recommend our ClickSave T5 adapters as we have been ordering these for many years to our own high specification from two factories which I have personally visited in detail and on occasion brought Intertek staff to help me to quality-assess. These have been very reliable and thrive on the heat within enclosed recessed light-fittings unlike LED tubes whos' life and light-output is affected by heat

ClickSave T5 adapters (on demonstration above) feature a bright reflector to improve efficiency and light-levels on desks and floors. Therefore they use less power than T5 adapters which don't have reflectors as those manufacturers tend to over-power the T5 tubes to generate enough light at the ground.

The reflector has been designed to allow some light to spill sideways to walls and ceilings to avoid gloomy 'cave effect'

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