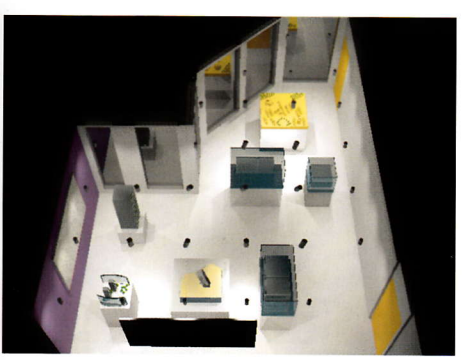
Day and night: the new Model Room uses a total of 31 WILA E Connect Nero Accent luminaires incorporating the Xicato module providing a 60% energy savings when compared to the previous room that used conventional halogen downlights

MODEL SHOWROOM

WILA downlights with Xicato modules create the perfect display environment

When Land Securities, the most successful property company in the UK, decided to relocate its 'Model Room', where clients view the property portfolio that is currently available in London, they approached WILA Lighting Limited to provide a lighting solution. Attractive lighting can enhance the showroom experience for prospective clients, particularly when it involves properties with a rent value in excess of £50 million per annum.

For the new Model Room, WILA chose a solution using the Xicato LED module which not only provides a superior lighting environment, but saves energy in the process. The Model Room uses a total of 31 luminaires incorporating the Xicato module providing a 60% energy savings when compared to the previous room that used conventional halogen downlights. In addition to the energy savings from deploying the Xicato solution, maintenance savings are afforded by the 50,000 hour life compared with halogen's 4000 hour life. The upgrade ultimately translates to a two year payback for the client. Flexibility is further provided by fully adjustable discrete luminaires where the reflector beam angles can be easily varied as models change in the future.



DIALux lighting design software was used to calculate and visualise the Model Room

Corporate colours are used on the main walls to provide a good contrast. One significant challenge was that nothing should protrude below the ceiling. A second requirement was for flexible lighting to enable changes in model sizes and positions. An overall requirement was that the lighting should utilise the very best of today's technology with maximum ecological grounding matched by no compromise in light quality. The basic rules of display lighting were adopted providing an overall low illuminance ambient lighting level with highlighting of the merchandise. The solution chosen was to use an adjustable recessed downlight that did not protrude beneath the ceiling. This provided a clean symmetrical ceiling layout whilst allowing flexibility to highlight the models.

WILA's E Connect Nero Accent was used to provide the solution for both the ambient and display lighting with scene setting to provide the theatre to emphasise the particular building model. E Connect Nero Accent is a new range of downlights utilising Xicato Spot Modules with three reflector options from narrow spot (20°) to medium (35°) to wide beam (60°).

The Xicato Spot Modules are available in lumen outputs of 400, 700 or 1000lm, corresponding with 20, 35 and 50W low voltage halogen lamps, and with a range of CCT's: 2700K, 3000K and 4000K. Using a separated and corrected cold phosphor a high colour rendering of over 80, and a tight, maintained, colour point of less than 2 SDCM, ensures no compromise in light quality. The modules are sealed with an aluminium case and glass lens, affording complete protection to LEDs and phosphor, allowing safe cleaning of reflectors. There is no UV or IR emitted.

The room was modeled in DIALux with the exact building model size and locations where various scenarios were tested. A mixture of 60° and 25° beam angle reflectors were found to provide wall washing, ambient and highlighting that achieved the desired results. Each luminaire has a 360° rotation and 20° tilt within the small diameter outer reflector of 100mm. Each luminaire uses Harvard's CoolLED DALI driver rated at 350 or 700mA allowing the Simmtronic lighting control architectural dimming system to provide scenes using simple push buttons to achieve highlighting of the various building models.

Emergency lighting within the previous model room was by dedicated emergency luminaires. There was a desire to eliminate the need for separate luminaires so emergency lighting is provided by the same luminaire using an inverter that operates the 1000 lumen LED module at reduced output for escape lighting. This module is accessible through the 120mm cut out in the plasterboard ceiling.

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www.xicato.com
www.harvard.eng.com
www.simmtronic.com
www.dialux.com