

Lighting Statement

To accompany Lighting Scheme V2.2 by Bever Innovations

We have applied significant dimming to the under canopy lights to several different levels (some as low as 30%) to tailor it to the site where it is cramped.

The nozzles values are still >100lux so compliant for APEA IP COP and the EV charging area is still >50lx which meets the recommendation for Shell for example.

Average below canopy is with 224 lx which is a little on the low side to some oil company specs but again much more than needed for APEA so a good solution as we also have retained the minimum requirements for mixed traffic and pedestrian hazards in the monitored areas.

Vertical spill plots have been improved from the draft layout, as in <10lx which means that we have met the requirements for pre-curfew trading for both category E3 and E4 areas.

For 24/7 night time trading, then the only way that its possible for us (or any other lighting manufacturer) to meet this in respect of this one neighbouring property is for the site to accept that part of the site would need to be unlit, so closing some of the pumps and services areas which are right against the site boundary with no clearance distance or natural shielding or any room to put anything.

In summary, not only have we specified significant dimming at the point of installation, we have used controlled optics on all light fittings specified, quite a number of them asymmetric as well as light shields where needed and used low level flood fittings. On top of that I would strongly suggest that the canopy lights are installed using anti-glare recessed trim rings which are an off the shelf part with us and help reduce glare from the side, the site will still get a good result as they do not impact the light output, just help with the side view from neighbours.