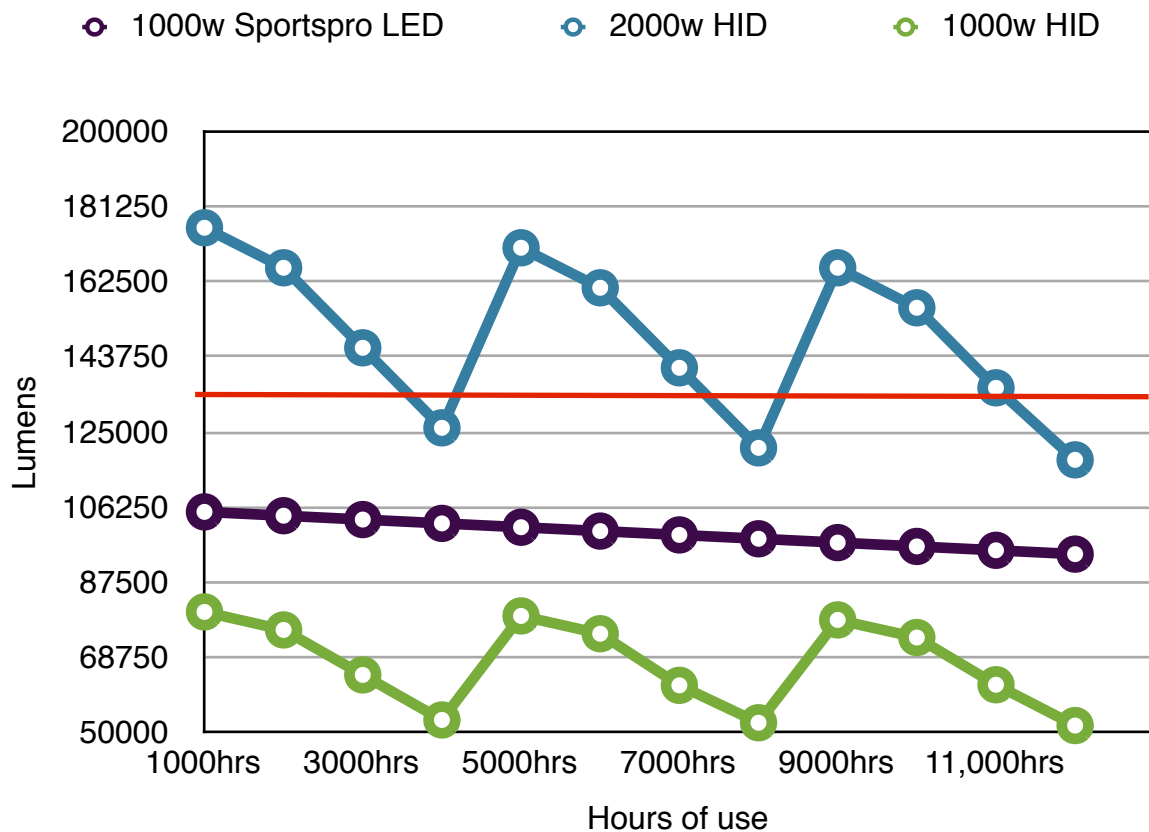


## HID lumen output loss verses LED lumen output loss.



### 0.8 maintenance factor used when designing a lighting scheme.

The above graph is based upon the actual lumens leaving the light fitting and not the lamp.

The red line shows the designed lux level for a lighting scheme. This means that a scheme will have a higher lux level over the first 4000hrs of use and only achieves the correct required light level when the lamp needs replacing.

This means that more power is wasted on an overly bright lighting scheme to allow for the loss in lamp performance over time.

HID lamps should be replaced every 4000hrs of use to keep the desired lighting level.

Chart covers three lamp replacement cycles and factors in loss of performance from the reflector over time.

SportPro LED 1000w floodlight required no lamp replacement or maintenance over the same period.

Because LED lights depreciates much less in lumen output over its life ( approximately 10% over 25,000hours ) it means that a lower maintenance factor can be used when designing a floodlighting scheme.

This chart shows that the 2000w HID floodlight has only 20,000 lumens more than the 1000w Sportpro LED floodlight.