APPLICATION TO CONSTRUCT YOUR EL LAMP

1) Check the ITO film, to find out which side is conductive. This can be done using a resistance/conductivity meter.

2) It is recommended that the conductive side of the ITO is cleaned with isopropyl alcohol (CAS # 67-63-0). This is to remove any dirt or grease from the surface. Allow the ITO to air dry before printing.

3) The phosphor ink is then “double wet” printed directly on to the conductive side of the ITO. This then needs to be cured at 130ºC for 3 minutes, using a belt dryer. Alternatively, a box oven can be used for 10 minutes at 130ºC.

4) A single layer of dielectric is then printed onto the cured phosphor layer. This is then cured using the same method as for the phosphor layer.

5) The previous step is then repeated, with a second layer of dielectric.

6) The conductive layer (Silver or Carbon) is then printed on top of the dielectric layers. This layer is then cured in the same manner as the previous steps.

7) It is recommended that the finished lamp should be laminated. This can be done using a self-adhesive heat sealed film or a suitable encapsulation ink; this will help to maintain the longevity of the lamp.