Claims

1. A single or double sided photometric lens for illuminating a sign, the photometric lens comprising a lens panel having a dot matrix pattern which is printed using mesh and stencil and a clear ink pigmented to create a tint on the dot matrix pattern which tint aids light being reflected from within the lens panel, the ~~n illuminated sign including a single or double sided~~ photometric lens being adapted to be placed ~~one or both sides of which have~~ in juxtaposition ~~there~~with a graphics panel, the photometric lens has one edge lit by a strip of light emitting diodes (LED's) and the lens~~(es)~~ is~~(are)~~ adapted to spread the LED's light evenly across the graphics panel and through a clip-on frame for the photometric lens and graphics panel(s) while not producing any shadow cast by the dot matrix pattern~~which frame provides edge light distribution for the sign~~.

2. An illuminated sign including the single or double sided photometric lens as claimed in claim 1 fitted to the clip-on frame which provides edge light distribution for the sign.

3~~2~~. An illuminated sign as claimed in claim 2~~1~~ wherein the photometric lens has in its upper edge a series of cut-outs into which LED's of the LED strip fit when the sign is assembled.

4. An illuminated sign as claimed in claim 2~~1~~ or claim 3~~2~~ wherein the sign has a housing along its upper edge which covers the LED strip and its connecting wires and in which housing is mounted electronics which run the LED's and a power source for the electronics and LED's.

5. An illuminated sign as claimed in any one of ~~the preceding~~ claims 2 to 4 wherein the graphics panel includes a pictogram or word(s).

6. An illuminated sign as claimed in claim any one of ~~the preceding~~ claims 2 to 5 wherein ~~a~~ the dot matrix pattern which forms ~~the~~ a photometric

design is printed on one side of an acrylic blade panel and in which a special ink system is used which allows the natural reflection of light through both surfaces while not producing any shadowing through both surfaces, when in contact with the graphic panels.

~~7. An illuminated sign as claimed in claim 5 wherein a pigment is included to tint a clear ink so that when it is printed onto the blade panel the tint aids light being reflected from within the panel.~~

7. An illuminated ~~panel~~ sign as claimed in any one of claims 2 to 6 ~~claim 6~~ wherein the pigmented ink is applied in one pass through ~~a~~ the ~~polyester or the like~~ mesh and stencil so that in the one pass a measured build up of the ink is applied to the surface of the ~~blade~~ lens panel.

8. An illuminated ~~panel~~ sign as claimed in claim 7 wherein the dot matrix pattern is produced by a screen formed from polyester mesh.

9. The illuminated sign as claimed in claim 7 or 8 wherein the mesh ~~which~~ has a mesh count of about 120 strands each way to produce the required dot matrix pattern.

~~9. An illuminated sign as claimed in claim 1 and substantially as hereinbefore described with reference to the accompanying drawings.~~

~~10. A single or double sided photometric lens for illuminating a sign, the photometric lens being adapted to be placed in juxtaposition with a graphics panel, the photometric lens has one edge lit by a strip of light emitting diodes (LED's) and the lens(es) is(are) adapted to spread the LED's light evenly across the graphics panel and through a frame for the photometric lens and graphics panel(s).~~

~~11. A single or double sided photometric lens as claimed in claim 10 wherein the frame can provide edge light distribution for the sign.~~

10. An illuminated sign as claimed in any one of claims 2 to 9 ~~A single or double sided photometric lens as claimed in claim 11~~ wherein the frame is an existing exit ~~or the like~~ sign.

~~13. A single or double sided photometric lens as claimed in claim 10 and substantially as herein before described with reference to the accompanying Figures 6, 7 and 9.~~