



INSTALLATION

The installation of the Lumisphere Patented conversion unit can be achieved in a few minutes. The ECUB for standard galleries is attached by the conduit entry nipple and connection made to the shrouded terminal block to 240V continuous supply. The ECUB for anti vandal galleries (as manufactured by Endirect), are provided with a projecting bracket to slot into the dovetail base and are retained by a set screw. Electrical connections are as before.

SPECIFICATIONS (ALL MODELS)

Supply 230V 50Hz
Output 11.8V 32KHz, 60VA max.
Lamp type M32L 12v 50W
Enclosure Extruded, anodised 6038 alloy & nylon 66 end caps
Bracket 2mm Pressed, galvanised steel
Circuit Switched mode power supply derivative with oscillation frequency of 32KHz, high voltage selected output devices. Voltage transient suppression, AC filter networks. The unit is short circuit protected by electronic devices as defined by BS3535-2(xi). These units have been independently tested by NAMAS accredited laboratories and comply with EN55015, EN60555/2 & EN605898-2-6. FS1 and FAV3 models include internal flasher electronics.

NON FLASHING (NF MODELS)

Non flashing units are available for use where synchronised group beacons are installed. These units can be fed from a centralised standard beacon flasher.

TYPES AVAILABLE

FS1 Flashing, 20mm hole for standard gallery
NFS2 Non-flashing, 20mm hole for standard gallery
FAV3 Flashing, slot in for anti vandal gallery
NFAV4 Non-flashing, slot in for anti vandal gallery.

REFLECTOR

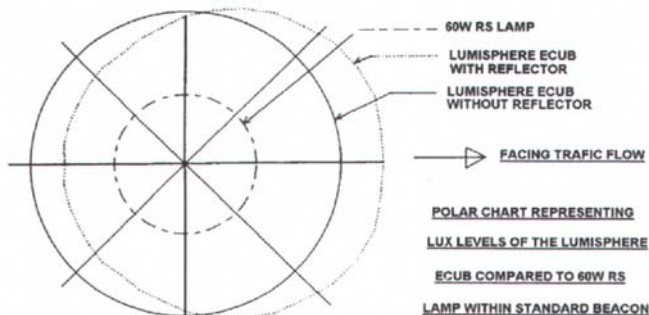
The unit is supplied with a reflector fitted which gives the beacon enhanced intensity through 270 degrees of its circumference, the remaining 90 degrees remains brighter than a standard beacon. The unit should be orientated towards oncoming traffic on installation. Note - Reflector may be removed for centre island installation.

VISIBILITY

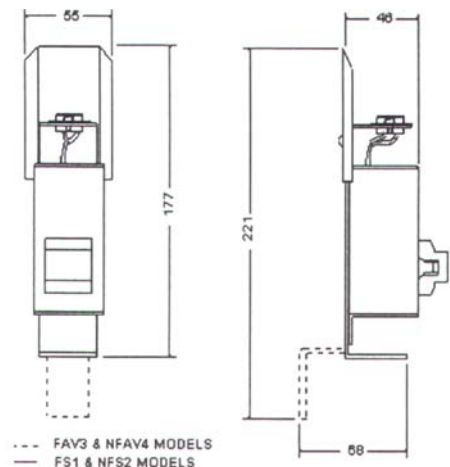
The enhanced visibility is obtained by the use of a 50W tungsten halogen traffic signal lamp which has a luminous flux of 850 lm and a colour temperature of 3000k with a luminous efficacy of 17 lm/W. Furthermore the luminous flux and efficacy are maintained throughout the life of the lamp. These combined features give the beacon considerably higher visibility both in daylight and at night. By comparison, 60W rough service incandescent lamps which are normally used in belisha beacons have an initial luminous flux of only 500 lm and a colour temperature of 2700K with a luminous efficacy of approximately 8.33 lm/w. Moreover, the luminous output and efficacy deteriorate throughout the life of the lamp.

RELIABILITY

The Lumisphere ECUB is reliable solid state electronic unit. The special characteristics prevent voltage surge to the filament. The continuous flashing at 50% cycle ensures the filament remains hot and is still glowing during the off period. The 50W M32L traffic signal lamp as supplied with the unit is fully resistant to traffic vibration and the effect of the 50% flashing cycle with the controlled voltage of 11.8V gives an expected average life of 8,000 to 10,000 hours ie over one year between service. This is to be compared with a rough service incandescent lamp normally used in beacons where it is optimistic to expect in excess of 1000 hours, and on average require changing 8 times per year.



THIS CHART IS FOR COMPARATIVE PURPOSES ONLY



ENERGY SAVING

The use of the 50W TH lamp compared with the 60W incandescent lamp gives an energy saving of over 16% some 43KWh for each beacon per year

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