

## 2.0 Electric Light

### 2.1 Incandescent

The incandescent lamp is operated by heating a filament in the lamp to a high temperature, so that it emits light. The basic principle of the lamp may be simple but the technology required to maintain a filament at a high enough temperature to give significant amount of light whilst ensuring the lamp has a reasonable life is highly complex. The basic and most popular form of the lamp is the General Lighting Service (GLS) lamp (see Figures 32, 33, 34, 35).).

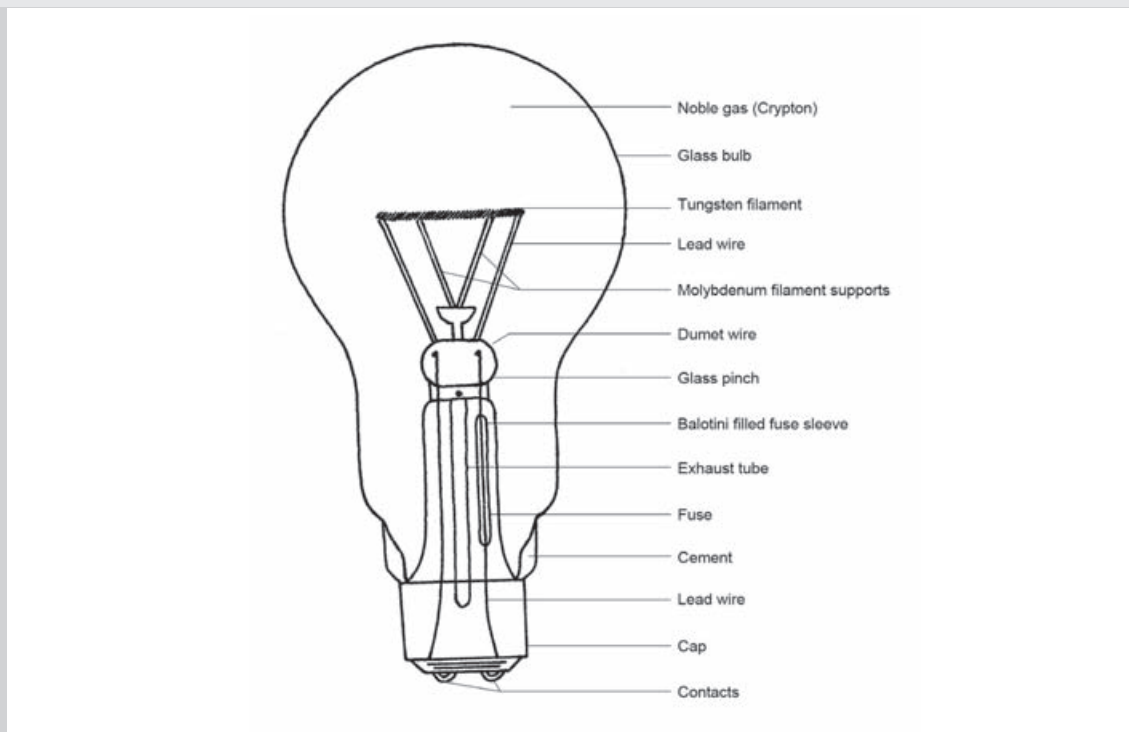
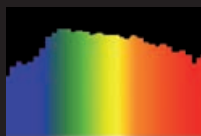


Figure 32  
The construction of a most typical GLS incandescent lamp.



Daylight



Incandescent (white)

Figure 33  
Typical spectral light distribution of incandescent lamp in comparison to daylight spectrum.