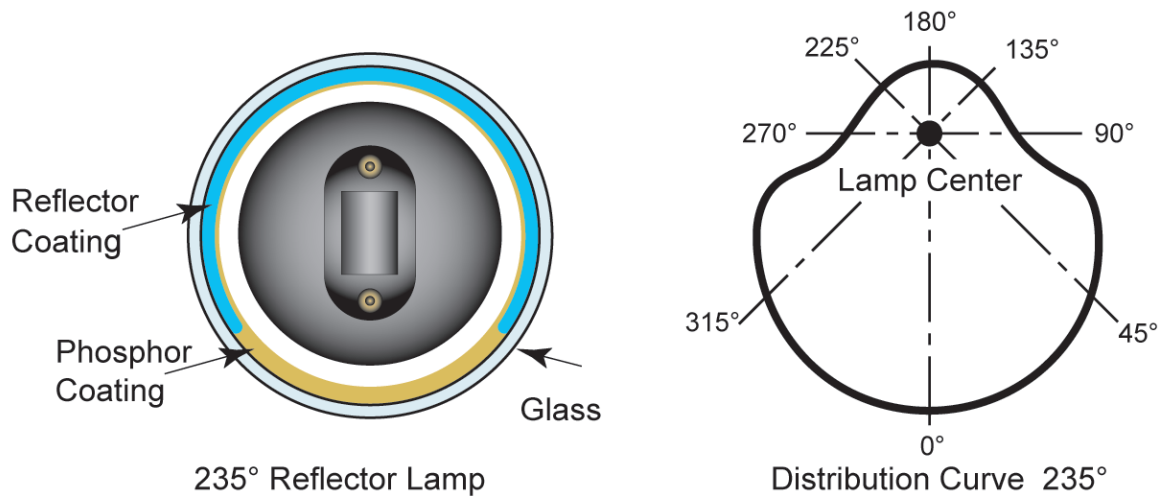


## Light Distribution Pattern of a Fluorescent Reflector

The fluorescent reflector lamp (designated as FR) incorporates a white reflective coating applied to the lamp, usually 180 to 235°. The fluorescent reflector lamp (designated as FR) incorporates a white reflective coating applied to the lamp, usually 180 to 235° of the circumference of the glass tube followed by a full circumferential coating of phosphor which produces the visible or UV light energy. This directs the light where it is most useful, although there is a slight loss in total output and some light passes through the reflector. A typical light distribution pattern of the 235° reflector lamp is shown here.



*Cross section diagrams and relative candlepower  
distribution curves for 235° reflector lamp*

The main advantages of the fluorescent reflector lamp are:

1. Light output is not affected by dust accumulation on top of the lamp or on an external reflector housing.
2. The internal reflector of the lamp is protected by environmental conditions and is changed each time the lamp is changed for optimum performance.
3. Less expensive and smaller fixtures may be used since the reflector design is not critical.