Place the mercury vapor lamp (see Note) and the combination lens and grating platform at the front center of the lecture table, pointing toward the screen at the front of the room, and adjust the height of the lamp to that of the lens. Place in front of the lamp a slit of variable width. Starting with the slit approximately 4" from the lens, adjust the position of the lens or the slit until the image of the slit is focused on the screen. Now place in the beam, on the circular platform, a grating of approximately 3000 lines/cm. Several orders of reinforcement are clearly visible on the screen, particularly if the room is darkened completely.

Note: After being turned on, the mercury vapor lamp requires approximately 10 minutes to attain maximum intensity. It should therefore be turned on some 5 minutes before being used. Once it is turned off, it should not be turned on again until allowed to cool.