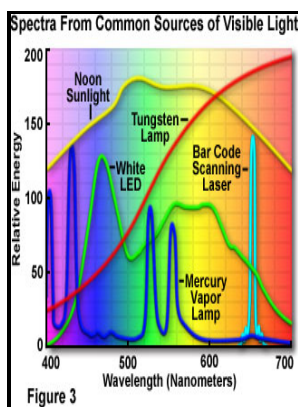


# Lines in the infra-red spectrum of the mercury arc.

- - Sodium



Description: -

-  
 San Juan Capistrano (Calif.) -- History -- Pictorial works.  
 San Juan Capistrano (Calif.) -- Pictorial works.  
 Mercury  
 Infrared spectra  
 Lines in the infra-red spectrum of the mercury arc.  
 -Lines in the infra-red spectrum of the mercury arc.  
 Notes: Thesis (M.A.) -- University of Toronto, 1915.  
 This edition was published in 1915



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Tags: #Persistent #Lines #of #Neutral #Mercury #( #Hg #I #)

## Sodium

A common method of correcting this problem before phosphors were used was to operate the mercury lamp in conjunction with an.

## Mercury

The 185 nm line will create in an oxygen containing atmosphere, which helps in the cleaning process, but is also a health hazard. Low-pressure sodium lamps are highly efficient electrical light sources, but their yellow light restricts applications to outdoor lighting, such as , where they are widely used. The effect of this is that the lamp glows for a while and then goes out, typically starting at a pure or bluish white then moving to a red-orange before going out.

## Strong Lines of Mercury ( Hg )

Mercury vapor lamp ballasts are similar to the ballasts used with. They operate at an internal pressure of around one atmosphere and require special fixtures, as well as an. Two varieties of such lamps exist: low pressure and high pressure.

## Mercury

Research into high-pressure sodium lamps occurred in both the UK and the US. A closeup of a 175- mercury vapor lamp. If power is removed and reapplied, the ballast will make a new series of startup attempts.

## Sodium

The result is an average lamp life in excess of 20,000 hours. As a noble gas, it does not interfere with the chemical reactions occurring in the operating lamp.

## Persistent Lines of Neutral Mercury ( Hg I )

High-pressure sodium lamps emit a broader of light than the low-pressure lamps, but they still have poorer than other types of lamps. Eventually,

with the arc extinguished, the lamp cools down again, the gas pressure in the arc tube is reduced, and the ballast can once again cause the arc to strike. They are enclosed and have protections to prevent human exposure as well as specialised exhaust systems to remove the ozone generated.

### **Persistent Lines of Neutral Mercury ( Hg I )**

Low-pressure sodium lamps only give yellow light and so inhibit color. Their other advantages are a long bulb lifetime in the range of 24,000 hours and a high intensity, clear white light output. This property contrasts with mercury vapor HID lamps, which become dimmer towards the end of life to the point of being ineffective, while consuming undiminished electrical power.

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