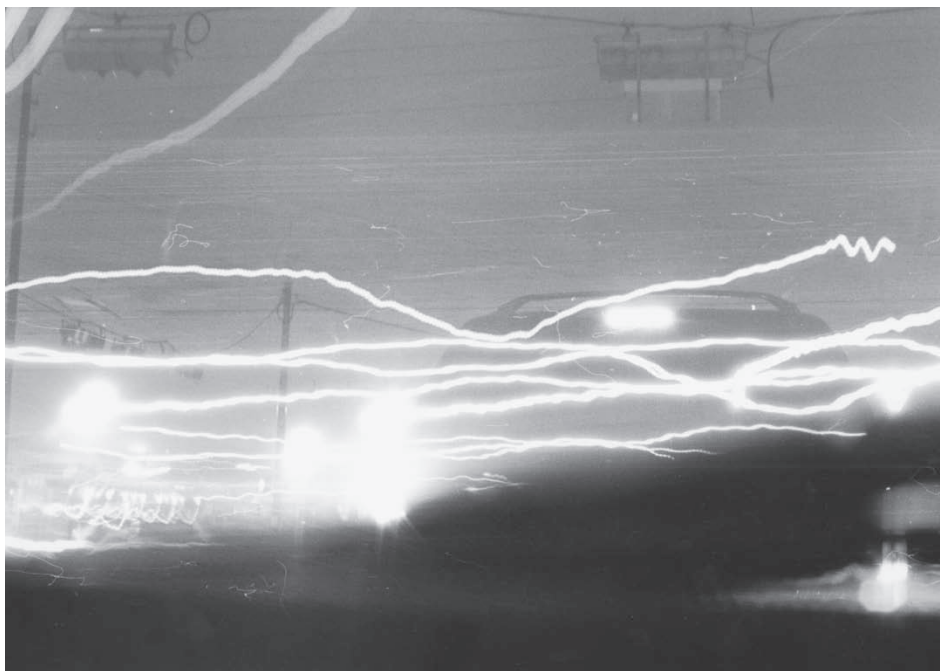




**HIGH INTENSITY DISCHARGE
XENON PROJECTOR
HEADLIGHT**



Headlights allow us to see during the night when driving

There are different types of headlights

Basic headlights use a reflective bowl with halogen bulbs

There are two types of advanced headlights that use a projector to better control the light direction on to the road

Halogen projector headlights uses the same bulb as reflective bowl but has better light dispersal and output

High Intensity Discharge (H.I.D.) xenon projector headlights uses high voltage xenon bulbs that are three times brighter than halogen





Projectors create a straight beam of light across the front of the car as seen on the photo on the bottom left.

Projectors evenly disperses the light and focuses the light onto the road.

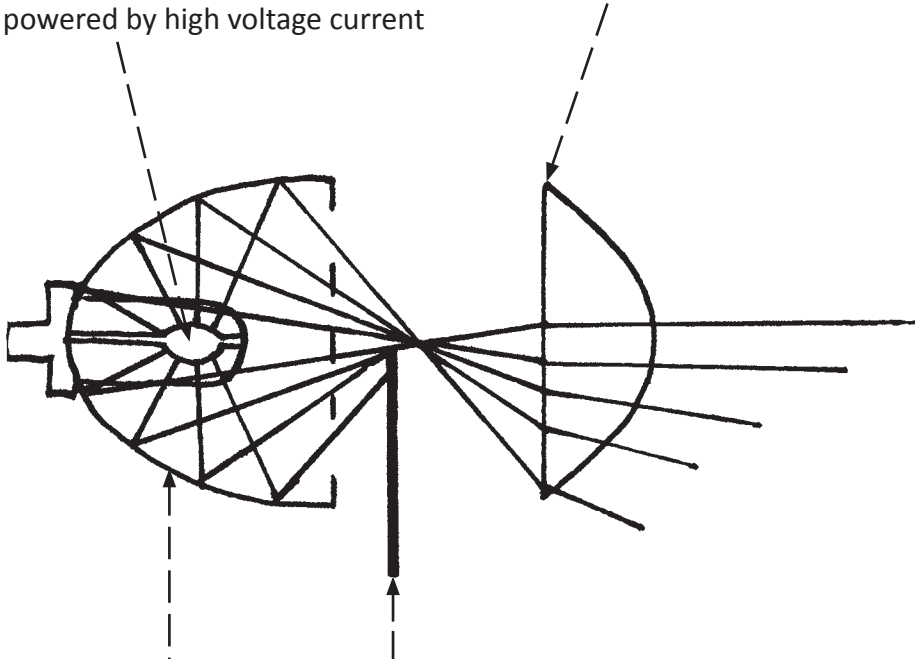
This allows brighter light to be used without blinding on coming traffic.

With proper projectors, H.I.D. xenon lights are brighter and travels further than halogen lights.

H.I.D. Xenon Projector Basic Design

Xenon gas chamber in the bulb from which the light source originates, powered by high voltage current

Glass lens that disperses and evenly projects the light



Shield that blocks light from the bulb so that the projected light through the lens is only on the bottom half

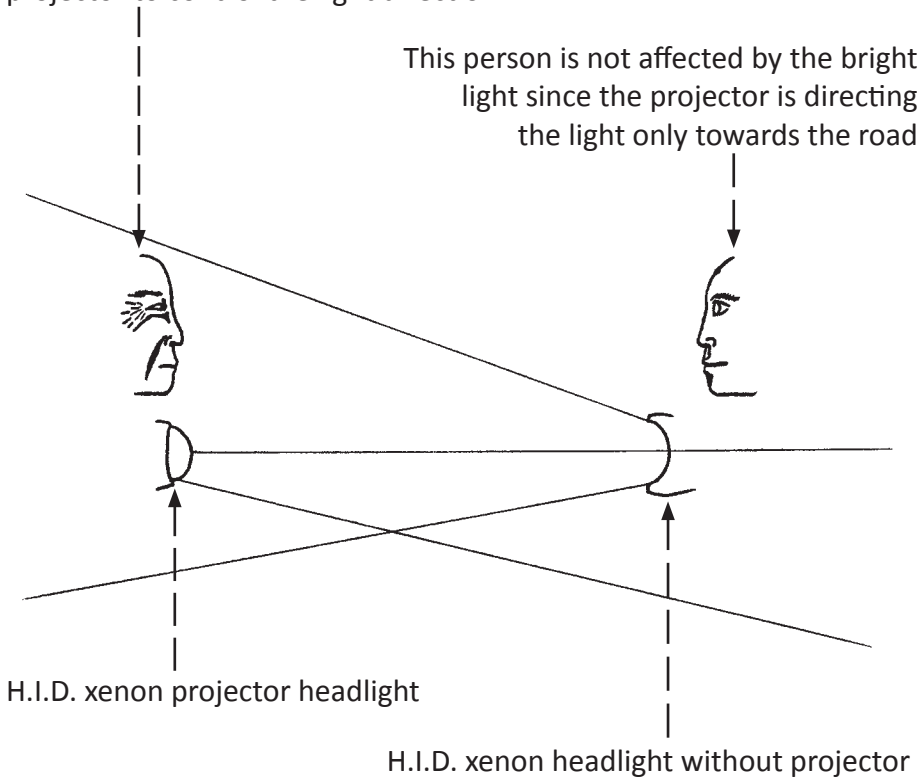
Reflector bowl reflects the light from the bulb towards the lens

H.I.D. Xenon Projector Headlight versus H.I.D. Xenon Headlight without a Projector

H.I.D. xenon headlight without a projector is a regular halogen reflector bowl headlight that uses the same H.I.D. xenon bulb system as headlights with projectors.

This person is blinded by the light from the reflector bowl that has no projector to control the light direction

This person is not affected by the bright light since the projector is directing the light only towards the road



H.I.D. xenon projector headlight

H.I.D. xenon headlight without projector

