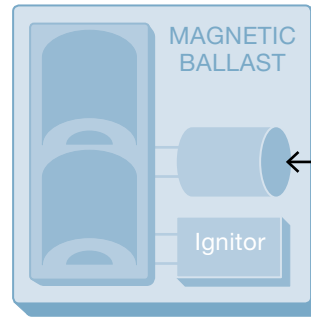


# POWER FACTOR AND BALLAST LIFE



Ballasts die from heat exposure over time, not from old age. Therefore, typical “rated hours of operation” is an ineffective gauge. It is easy — and more effective — to calculate **remaining ballast lifespan** by measuring the power factor at a fixture.



Heat exposure degrades the **capacitor** embedded in a ballast, gradually shifting the power factor. This causes the ballast to draw progressively more current and produce more heat, eventually causing the ballast to fail.

Since power factor shifts in a **linear and predictable** way as ballasts age, it can be used to precisely measure ballast lifespan — and get the most value from existing ballast infrastructure without risk of failure.



## Lower load + less heat = longer life

BallastLED technology from Lunera allows the MH HID Lamp to leverage existing lighting fixtures and ballasts. The ultra-efficient MH HID Lamp Gen 2 also reduces the load on the ballast and produces far less heat, greatly extending remaining ballast lifespan.

