

Highway Sign Lighting and QL Induction Lamps

A • C A S E • S T U D Y



Philips Lighting Company's QL induction lamps combined with Allied Lighting's patented Media Star® reflectors provide an **ideal solution for overhead highway sign lighting**. When state transportation departments considering highway sign lighting system upgrades approach Allied Lighting, they are looking for specific photometric requirements while reducing energy and maintenance costs.

A lighting fixture manufacturer and distributor specializing in exterior lighting, Allied Lighting Systems, Inc. of San Diego, CA., has the answer. Allied developed the Media Star® reflector. This innovative reflector optimizes light output and distribution, allowing a lower-wattage lamp to provide brighter, more uniform light across the sign face.

After completing a state highway sign upgrade using the 100,000-hour*, 85-watt QL Induction lamp/Media Star combination to replace 175-watt mercury vapor systems, Allied Lighting found that by using QL lamps with four times the life and half the wattage, the state could reduce energy usage by 58 percent and realize substantial maintenance savings.

"We knew that our Media Star reflector system could meet state transportation illumination specifications using much lower-wattage lighting,"

explains Steve Donner, President and CEO of Allied Lighting Systems. "Since end-users are looking to contain maintenance costs with a longer life option, the Philips 85-watt QL Induction lamp is a perfect match."

Allied Lighting designed a retrofit kit that adapts to existing mercury vapor fixtures. The retrofit kit allows maintenance crews to change over to the QL Induction lamp/Media Star reflector combination much quicker, realizing immediate cost savings. **The A-shape makes the QL induction lamp an easier retrofit into existing mercury vapor fixtures and better able to work with an advanced reflector to meet photometric requirements.**

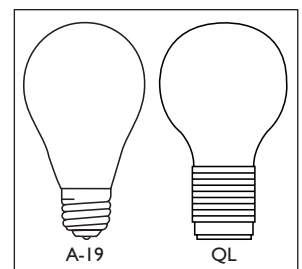
QL Induction lamps offer a 100,000-hour rated average life*, high 80+ color rendering, no color shift over lamp life and a stable light output over a wide range of temperatures and voltage fluctuations.

The QL Induction lamp/Media Star system has since been approved in several state highway sign relamping projects.

*Based on 11 hours average usage per day, 7 days a week.

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Steve Donner
President and CEO
Allied Lighting Systems



A-shape makes it easy to retrofit

PHILIPS

BENEFITS OF QL INDUCTION LAMPS

- **Ultra-Long Life**
 - 100,000 hour rated average life*
 - Perfect for hard-to-reach applications

- **Low Total Cost Of Ownership (TCOO®)**
 - Reduced energy and maintenance costs

- **Crisp White Light**
 - Choice of 3000K or 4000K color temperatures

- **Outstanding Color Performance**
 - No color shift over lamp life
 - High 80+ Color Rendering

- **High Reliability—Instant Hot and Cold Start-Up and (Re)Start**

- **Flexible A-Shape**
 - Easy retrofit

- **Stable Light Output Over a Wide Range of Temperatures and Voltage Fluctuations**

- **High Efficacy**
 - 63 LPW for the 55-watt system (3500 approx. initial lumens)
 - 70 LPW for the 85-watt system (6000 approx. initial lumens)
 - 72 LPW for the 165-watt system (12,000 approx. initial lumens)

- **Electrodeless Construction**
 - Insures longevity
 - No fragile parts



Allied Lighting's Media Star retrofit kit

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