



Amglo Kemlite Laboratories

SPECIALTY LAMPS MANUFACTURER

LOCOMOTIVE RAILWAY CATALOGUE

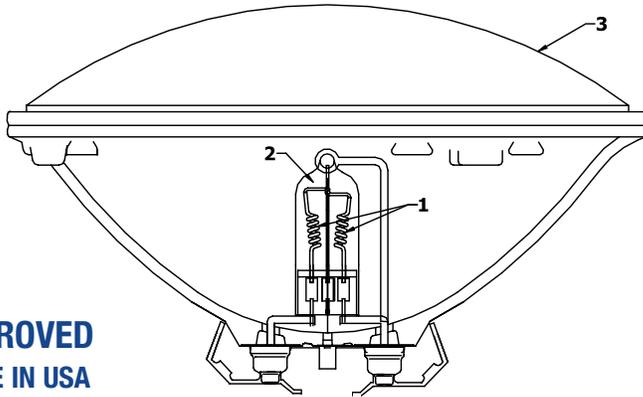


www.amglo.com



PAR HEADLIGHT/DITCH LAMPS

**FRA
APPROVED
MADE IN USA**



- Reduce your maintenance cost!
- Maintains minimum 200,000 candelas over life ensuring your train is in compliance with the Federal Railroad Administration's regulation contained in 49 CFR 229.125 (a) and (b)!
- Never have your train restricted under "Movement of non-complying locomotives" and placed in trail service, due to one headlamp failure.

AMGLO QUARTZ HALOGEN 75V 350W/PAR56

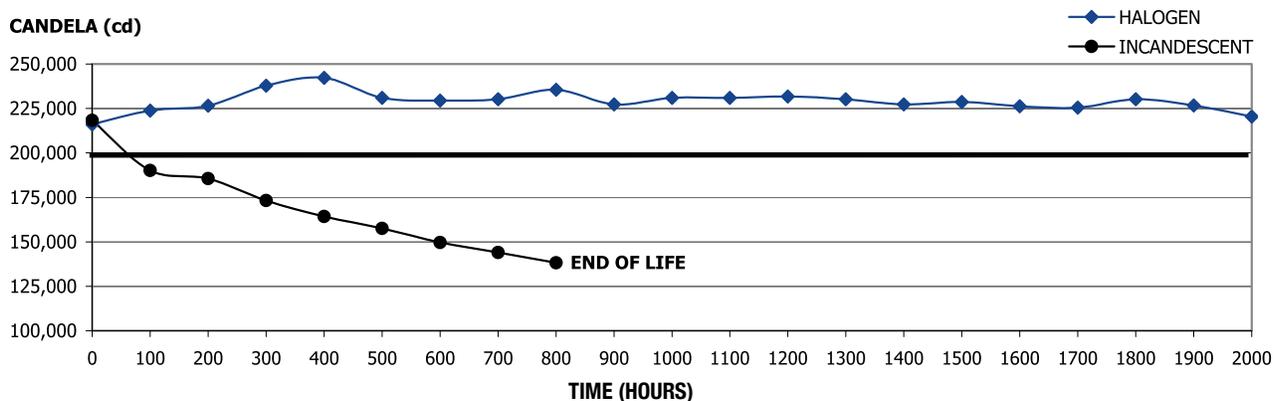
Anglo Quartz Halogen 75V350W/PAR56 locomotive head lamp and ditch lamp provides greater efficiency, longer service life and improved beam quality over the current industry standards.

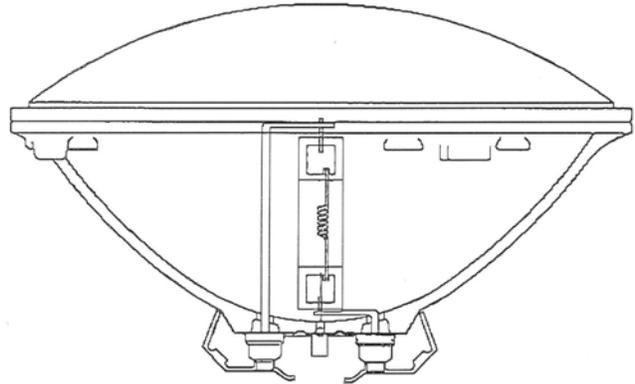
Lamps are fit and form to the current Incandescent industry standard.

1. Shortening of the filament reduces displacement from cyclic vibrations, thus extending filament life. This design eliminates filament sagging ensuring photometric stability.
2. Halogen technology extends filament life and prevents bulb blackening ensuring FRA minimum luminous intensity of 200,000 candelas over life. In the event that one of the two lamps fail, the locomotive may continue in lead service until the next quarterly inspection.
3. Dedicated PAR56 annealing processes have been instituted to reduce glass fracturing.

(ANSI) P/N INDUSTRY	AMGLO CROSS	DESIGN VOLTAGE	DESIGN WATTS	MINIMUM CANDELA	FILAMENT DESIGNATION	BASE	SERVICE LIFE (HOURS)
350PAR56/SP	AHQV5675V350WCS	75	350	200,000	2CC-8	Screw. Term	4,000
200PAR	AHQV5630V200WCS	30	200	200,000	CC-8	Screw. Term	2,000

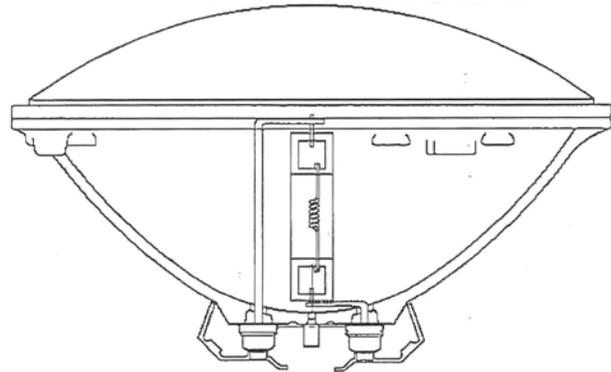
350 W INCANDESCENT VS. HALOGEN LAMP MAINTENANCE CURVE





AMGLO QUARTZ HALOGEN 75V 300W/PAR 56

- Focused primary to save fuel cost by consuming less power
- Designed to meet 200,000 candelas
- Locomotives in lead average 8 hours a day, 350 days a year
- 50 watts savings compared to previous design at 350 watts is equivalent to 140 KWH/year
- Equals 38.32 gallons/year in savings
- 38.32 gallons at \$3.00 a gallon equals \$115.00 per lamp in savings per year.
- Made in USA



AMGLO HALOGEN 30V 200W/PAR56

- FRA Approved November 14, 2006. Made is USA
- Longer lamp life – Amglo Halogen lamp service life is 2000 hours vs. the incandescent lamp of 350 hours.
- Maintains light output of over 200,000 candelas throughout lamp life.
- The filament withstands vibration consistently throughout life.
- No signs of blackening due to Halogen cycle.



SIGNAL INDICATOR LAMPS

Amglo Halogen A19 75V 40W

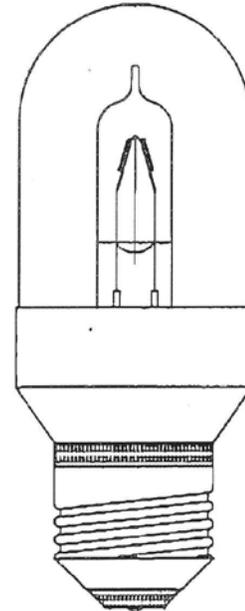
Amglo Halogen 75-volt 40-watt shock-resistant Locomotive Long Life Universal Lamp is a direct replacement for current Incandescent 75-volt 50-watt A19.

Benefits:

- Long Life – 10,000 hours vs. 1,000 hours
- Lower maintenance costs – less changeouts
- Superior light output – consistent throughout lamp life
- Similar light distribution – suitable for all applications
- No wall darkening due to Halogen technology
- Fits in current socket – no changes or additions required
- Withstands shock and vibration
- Reliable Light – there when you need it most
- Fuel savings due to lower wattage – reduce fossil fuel
- In compliance with Green Light Technology requirements
- Made in USA

Applications:

- Step Light
- Walkway Light
- Number Light
- Compartment Light
- Engine Room Light, and other



AHH 10V-XXW-IDMM (XX = power in watts)

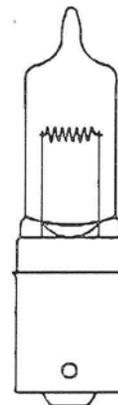
Amglo Halogen 10-volt shock-resistant signal lamp. This lamp is available in 12 watt, 18 watt and 25 watt to replace incandescent 10 volt signal lamps 12/18/25S11-ISC

Benefits:

- Long Life – 10,000 hours vs. 1,000 hours for incandescent
- Superior light output – consistent throughout lamp life
- Lower maintenance costs – fewer changeouts
- Similar light distribution as incandescent
- No wall darkening due to Halogen technology
- Fits in single contact bayonet socket – no changes or additions required
- Withstands shock and vibration
- Reliable Light – there when you need it most
- Made in USA

Applications:

- Highway Crossing Signal Light
- Railway Wayside Signal Lamp
- Indicator Light





U.S. Department
of Transportation

1120 Vermont Ave., N.W.
Washington, D.C. 20590

**Federal Railroad
Administration**

NOV 14 2006

Mr. John Madzar
Anglo Kemlite Laboratories Incorporated
8787 Enterprise Boulevard
Largo, Florida 33773

Dear Mr. Madzar:

This is in response to your letter of November 9, 2006, requesting Federal Railroad Administration (FRA) concurrence with your conclusion that Anglo Kemlite Laboratories' (Anglo) Halogen 30-volt, 200-watt, PAR56 locomotive head lamp is equivalent to the incandescent PAR-56, 200-watt, 30-volt lamp as referenced in 49 CFR §229.125(a)(1), §229.125(a)(2), and §229.125(d)(2). Per your follow-up e-mail, the lamp in question is Anglo part number AHQV56-30V-200WCS and is identified on the back of the reflector as 30V 200W PAR56 Halogen, plus an alphanumeric date code.

The technical reports which you submitted establish that the peak intensity of these lamps is consistently in excess of 200,000 candela. In addition, the intensity at 7.5 and 20 degrees off the centerline is consistently above the 3,000 candela and 400 candela requirements of 49 CFR §229.125(d)(2).

Accordingly, FRA concurs that Anglo Halogen lamp AHQV56-30V-200WCS is a "lamp of equivalent design and intensity" to the incandescent PAR56, 200-watt, 30-volt lamp. It is therefore suitable for use in single- or dual-lamp locomotive headlights and in auxiliary light locations as defined in 49 CFR §229.125. If it is used in both positions in a dual-lamp headlight, the locomotive will remain compliant even if one of the lamps burns out.

Any questions regarding this letter may be directed to Mr. Charles Bielitz at 202-493-6314.

Sincerely,

Edward W. Pritchard
Director, Office of Safety
Assurance and Compliance

cc: Charles Bielitz, RRS-14



U.S. Department
of Transportation
**Federal Railroad
Administration**

1120 Vermont Ave., N.W.
Washington, D.C. 20590

MAY 11 2006

Mr. John Madzar
Anglo Kemlite Laboratories Incorporated
8787 Enterprise Boulevard
Largo, Florida 33773

Dear Mr. Madzar:

This is in response to your letter of April 19, 2006, requesting Federal Railroad Administration's (FRA) concurrence with your conclusion that Anglo Kemlite Laboratories' (Anglo) Halogen 75-volt, 350-watt, PAR56 locomotive head lamp is equivalent to the incandescent PAR-56, 200-watt, 30-volt lamp as referenced in 49 CFR §229.125(a)(1), §229.125(a)(2), and §229.125(d)(2). Per your follow-up e-mail, the lamp in question is Anglo part number AHQV56-75V-350WCS and is identified on the back of the reflector as 75V 350W A/K QPAR56, plus an alphanumeric date code.

The technical reports which you submitted under Docket Number FRA-2005-23107 establish that the peak intensity of these lamps is consistently in excess of 200,000 candela. In addition, the intensity at 7.5 and 20 degrees off the centerline is consistently above the 3,000 candela and 400 candela requirements of 49 CFR §229.125(d)(2).

Accordingly, the FRA concurs that Anglo Halogen lamp AHQV56-75V-350WCS is a "lamp of equivalent design and intensity" to the incandescent PAR56, 200-watt, 30-volt lamp. It is therefore suitable for use in single- or dual-lamp locomotive headlights and in auxiliary light locations as defined in 49 CFR §229.125. If it is used in both positions in a dual-lamp headlight, the locomotive will remain compliant even if one of the lamps burns out.

If you require further assistance regarding this response, please contact Mr. Charles Bielitz, Mechanical Engineer, Motive Power and Equipment Division, at 202-493-6314.

Sincerely,

Edward W. Pritchard
Director, Office of Safety
Assurance and Compliance

cc: Charles Bielitz, RRS-14



Amglo Kemlite Laboratories

A WORLDWIDE LEADER IN ELECTRONIC GAS DYNAMICS SINCE 1935

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