

# D2S / D2R XENARC™

## High Intensity Discharge Lighting

### OSRAM, a world leader in lighting technology,

is a pioneer in the development of High Intensity Discharge (HID) Light Sources. OSRAM is committed to Total Quality in research and development, manufacturing, and customer service.

OSRAM's HID plants are ISO9001 and QS9000 certified.

Unlike halogen incandescent lamps, the OSRAM XENARC™ lamp does not have a filament. Instead, it creates light from an electrical discharge between two electrodes in a micro-environment of xenon gas, mercury, and metal halide salts that are hermetically sealed in a tiny quartz capsule. The arc tube is encased in a glass jacket to filter ultraviolet rays. The light is emitted by an electrically energized gas -- a plasma discharge -- formed and sustained between two electrodes. The Luminarc system includes an electronic ballast that controls the arc ignition process and sustains the arc in normal operation.

### HID Light Source Options

- **XENARC™ D2R:** Blacktop masking for reflector systems
- **XENARC™ D2S:** For projection headlamps with light shield

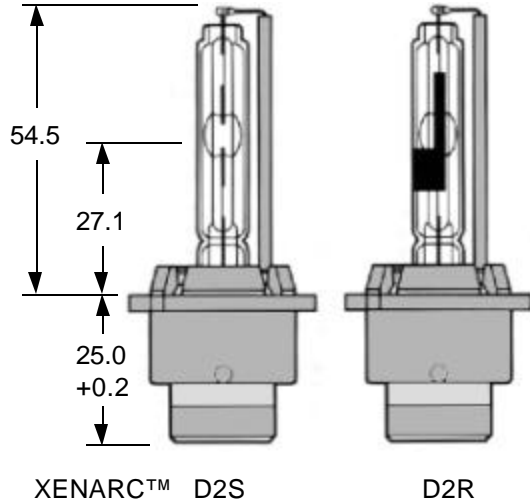
### Features / Benefits

- **Increased Light Output**  
At least 70% more light at a lower wattage than traditional lamps. Higher Efficiency System than halogen alternatives. 91 lumens per watt (D2S) compared to 18 lumens per watt for a comparable halogen light source.
- **Lower Wattage**  
Less power draw for the same light. XENARC™ produces 3200 lumens (D2S) from 42 system watts (nominal), compared to 1000 lumens for a comparable 55w 9006 halogen light source.
- **Durability**  
Lack of coil in light source provides increased durability and resistance to shock and vibration.
- **Life**  
 $B_3 = 1500$  hours  
 $T_c = 3000$  hours  
2 - 3 times the life of standard halogen.
- **Illumination**  
Blue-white light is safer because it is closer to natural daylight compared to halogen sources. Color temperature is  $\sim 4200^\circ\text{K}$  compared to  $\sim 3200^\circ\text{K}$  for halogen.
- **UV Protection**  
Outer jacket prevents transmission of harmful UV emissions. Plastic lenses can be used in conjunction with the HID system.
- **Replacement**  
Light source and ballast can be replaced separately.
- **Automotive Specification**  
World-wide approval (FMVSS, ECE R99)

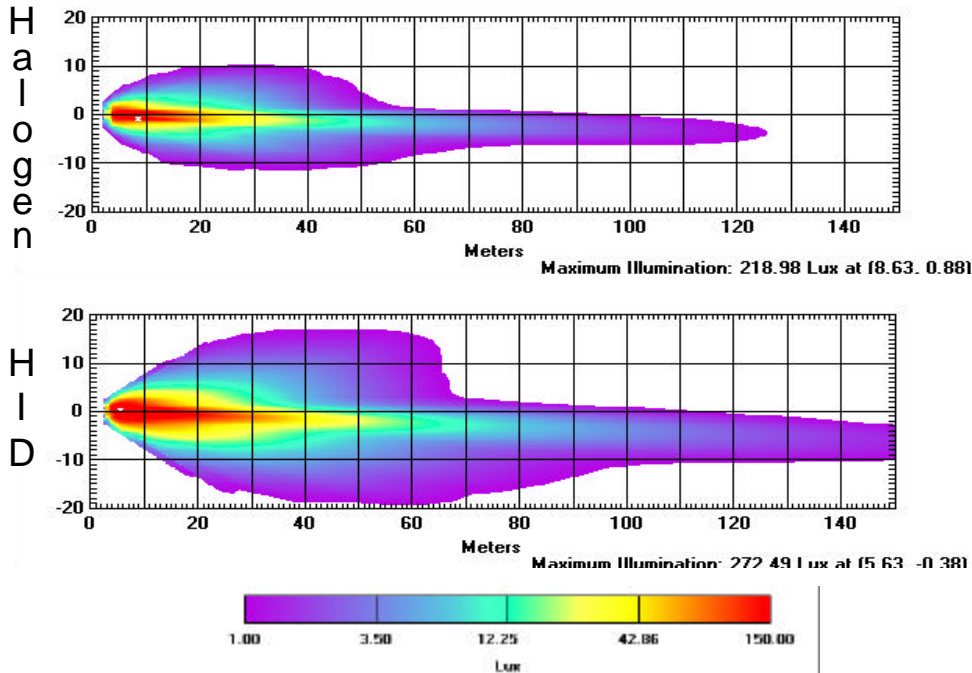


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# Product Offering



PARAMETER	XENARC™ D2S	XENARC™ D2R
Application	For projection systems with light shield	Blacktop masking for reflector systems
Light Source Power	35 +/-3W	35 +/-3W
Voltage	85 +/-17V	85 +/-17V
Average Luminance (cd/cm <sup>2</sup> )	6500	6500
Luminous Flux after 60 seconds	3200lm +/-450lm	2800 lm +/- 450lm
Lamp life	B <sub>3</sub> = 1500 hrs. T <sub>c</sub> = 3000 hrs.	B <sub>3</sub> = 1500 hrs. T <sub>c</sub> = 3000 hrs.
Color Temperature	4250° K	4150° K
Distance between electrodes	4.2+/- .045 mm	4.2+/- .045 mm
Light Center Length (LCL)	27.1+/-0.15mm	27.1+/-0.15mm
Max. socket temperature	210 °C	210 °C
Burning position	horizontal +/- 10°	horizontal +/- 10°



- Typical projection headlamp system
  - Overhead plot of down the road light intensity
  - Based on the same vehicle model
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- ⇒ More light to work with
  - ⇒ Improved spread from side to side
  - ⇒ Improved foreground illumination
  - ⇒ Improved down-road illumination

Global Automotive Lighting  
**OSRAM GmbH**  
 Hellabrunner Strasse 1  
 81543 Munich Germany  
 Tel: (0 89) 62 13-0  
 Fax: (0 89) 62 13-20 85  
 www.osram.com

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Global Automotive Lighting  
**OSRAM SYLVANIA**  
 275 West Main Street  
 Hillsboro, NH 03244 USA  
 Tel: 603-464-5533  
 800-347-3420  
 Fax: 603-464-7490  
 www.sylvania.com

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