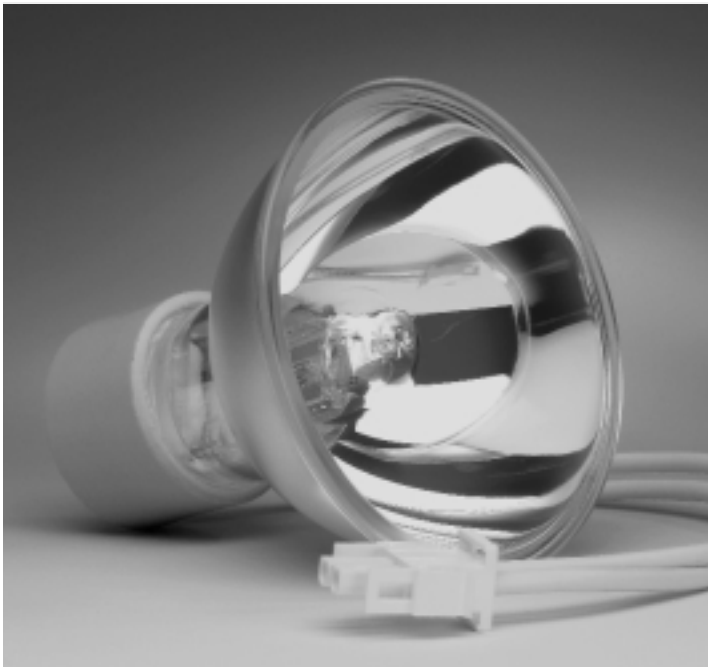
Product Information Bulletin

HQI®-R 150W/NDX FO

Metal Halide Fiber-Optic Lamp



- Superior Metal Halide technology
- Integrated reflector with dichroic coating, designed for fiber optic applications (optimal aperture of 25mm)
- Long life
- Low thermal output
- 4200K Color Temperature
- High CRI for optimal color rendering

Constructed with an integrated dichroic reflector, SYLVANIA HQI-R lamps are ideal for fiber optic applications.

This long life, high CRI, white light source has a compact design, making it a highly efficient lamp for fiber-optic systems.

Product Availability

Wattage	Reflector	Color Temp.
150	R30, Dichroic	4200K

Ordering and Specification Information

Item Number	Ordering Abbreviation	Watts	Bulb	Base	ANSI Spec. No.	Avg. Rated Life (hrs.)	Initial Lumens	CCT	CRI
64339	HQI-R 150/NDX/FO	150	R30	Amp Universal Mate-N-Lock	M81	9000	11,000	4200K	85

Reflector Diameter	(A) MOL[3]	Cable Length	Aperture Distance	Lumen Output with 0.98 in. (25mm) aperture	Lumen Output with 0.39 in. (10mm) aperture
3.75±0.02 in. (95.25±0.5 mm)	3.62 in. (92 mm)	9.84 in. (250 mm)	2.95 in. (75 mm)	5200	1850

1. All parameters were measured with the lamp mounted in horizontal operating position.
2. Operation in the vertical position may cause shifts in lumen output, color temperature, or CRI.
3. See Figure 1.

Application Information

Fixtures

Lamps are rated for use in enclosed fixtures.

Ballast Information

This lamp is approved to run on a M81 ANSI rated magnetic ballast.

Application Notes

1. Direct cooling of the lamp burner with a fan is not allowed. A smooth air stream around the reflector will not effect rated life.
2. Due to the fact that the HQI-R150W/NDX/FO emits strong UV radiation please refer to the literature of the fiber bundle producers. This is also valid for the max. temperatures of the fiber bundles. On normal PMMA fiber bundles it is 85°C. For higher temperatures up to 350°C only quartz glass fiber bundles are suitable (hot end fused types).
3. To achieve optimum system efficacy, it is recommended that hot fused glass fibers be used, because they do not need any UV or IR filters.
4. To achieve long life, the burner contains more filling than needed in the discharge. The non-evaporated filling may create a brownish liquid, which is projected on the harness via the reflector.
   - Operate the lamp in a horizontal position with the electrodes in a 45° angle to the plane. This position will minimize the brownish shadow on the fiber bundle
   - Using a randomized harness will distribute the brownish shadow equally over the entire harness, so that all outlets appear similar.
5. This lamp should not be operated using hot restike ignitors.
6. For maximum life, it is recommended the electrode plane be oriented horizontally (see top view Figure 1).

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Sample Specification

Lamp(s) shall be (a) HQI-R 150W/NDX FO lamp(s) and shall be constructed with an integrated dichroic reflector. Lamp(s) shall have a CRI of greater than 80.

Dimensions

Figure 1: Lamp drawing (top view)

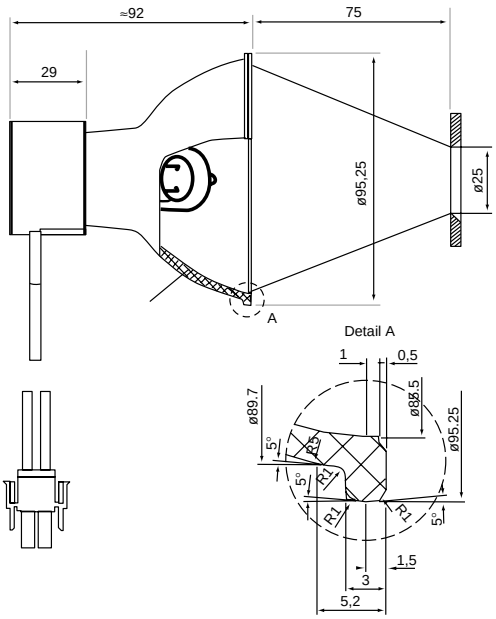


Figure 2: Lampside plug housing

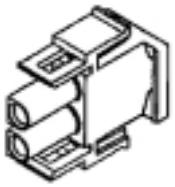
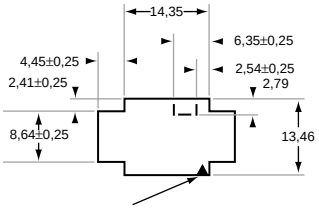


Figure 3: Reception plug housing for the fixture

Figure 4: Diagram of panel cutout



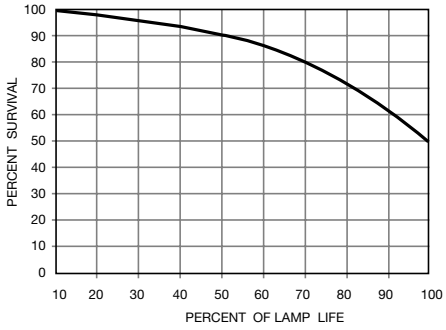
The AMP Universal Mate-N-Lock System with female connectors in the lamp plug housing (Fig. 2). The pins are in the reception plug housing, which can be fixed in a panel (Fig. 3). In order to reduce the decontacting forces we recommend to use split pins. A diagram of the panel cut out is shown in Fig. 4. All measurements are in millimeter (mm).

Ordering Guide

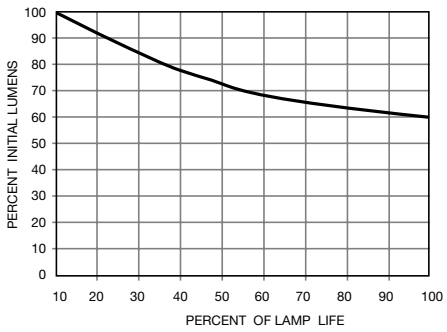
HQI-R	150	NDX	FO
Fiber-Optic HQI with integrated dichroic reflector	Wattage: 150 watts	Color: Neutral White 4000K	Fiber Optic

Technical Information

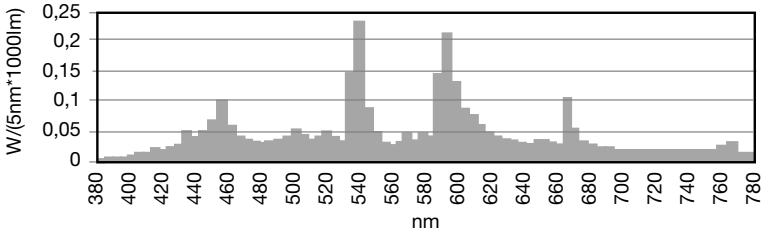
Typical Mortality Curve



Typical Maintenance Curve



Typical Spectral Power Distribution



WARNING: This lamp can cause serious skin burn and eye inflammation from shortwave ultraviolet radiation if the outer envelope of the lamp is broken or punctured. Do not use where people will remain for more than a few minutes unless adequate shielding or other safety precautions are used. Lamps that will automatically extinguish when the outer envelope is broken or punctured are commercially available.

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