



LOW WATTAGE HID FIBER ILLUMINATION SYSTEM

Lamp Specifications	
Characteristic	14.0 Watt Operation
Luminous Flux (2mm Aperture)	270 Lumens
Luminous Flux (4mm Aperture)	600 Lumens
Lamp Life (Median)	500 Hrs
Color Temperature	7,800K
Lumen Maintenance	80%

Ballast Specifications

Input Voltage	9V – 16V
Maximum Case Temperature	90°C
Efficiency	86% Nominal
Compact Size	MR11/Low Profile
Power Delivery	Fully Regulated/User Selectable

Part Number & Description

M10E001	MR11 Elliptical Lamp Assembly
B10R001	Dual Wattage (9.5W & 14.0W) Regulated Ballast

Improved Performance ¹
<ul style="list-style-type: none"> • 42% Improvement in Lamp Efficiency • 20%+ Improvement in Ballast Efficiency • 70%+ Total System Efficiency

End-User Benefits
<ul style="list-style-type: none"> • HID/Metal Halide Technology <ul style="list-style-type: none"> High Brightness for Intense Fiber Optic Illumination Delivers Light Effectively into 1mm to 4mm Diameter Fibers High Color Quality • Compact Size <ul style="list-style-type: none"> Low System Costs Potential Portable Operation • Low Power <ul style="list-style-type: none"> Allows Battery Operation Reduced Heat for Easier Thermal Management • Nearly 2X Brightness Keeping Battery Life the Same ¹



¹ Over prior generation low wattage portable HID technology.

The Next Evolution of Portable Fiber Illumination

Sōlarc® vs. Multi-Lamp LED

- Lighter Heads — No Heavy Heat Sinking Required
- Natural Daylight Appearance (7,800K)
- Richer Colors/Higher Color Rendering Index
- Sharper Spots
- Smaller Size and Higher Output
- More Intense Fiber Illumination

The Difference is the Arc!

Miniature Arc Produces Intense Light in a Concentrated Area

→ Optically Ideal Point Source

Benefits of Point Source

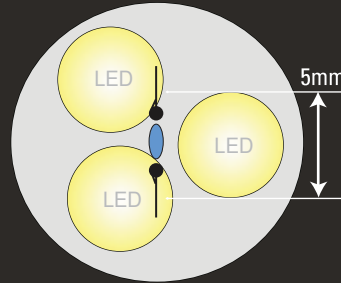
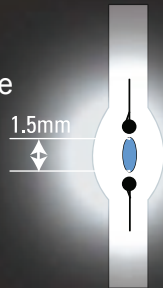
- Easy to Focus
- Easy to Control
- Smaller Head Size
- Optically Efficient: More Light Captured and Used

Energy Goes into the Arc and Out of the Front of the Lamp

→ Lighter Weight and Smaller Size

Compare the Difference!

Sōlarc® lamps produce intense light in a micro-sized space yielding crisp brilliant beams.



LEDs produce light from large glowing disks yielding large diffuse sources and consequently fuzzy spots.

(All measurements in mm [inches])

