

SHIPBOARD LIGHTING SOLUTIONS

Remote source lighting systems are designed to meet the specific demands of the application in hard-to-access locations and hazardous environments such as topside navigation and signaling lights, waterline security, access ramps, and mission bay lighting.

RSL Fiber Systems is the sole source provider of remote source lighting systems for the United States Navy and the Italian Navy. Since 2005, we have installed more than 50 remote source lighting systems on U.S. Navy vessels including the DDG 1000 Class, the LPD 17 Class, the Italian FREMM Class, and the USNS Invincible.



DDG 1000 Class



LPD 17 Class



Italian FREMM Class



USNS Invincible

Remote Source Lighting Advantages

- Composite construction mitigates corrosion
- Reduces signature - No EMI/RFI emissions or susceptibilities
- Reduces Radar Cross Section
- Passive luminaires eliminate danger of electrical shock
- Reduces weight in critical top-side locations
- Enhances light pattern distribution
- No light pollution
- Night vision compatible
- Reduces maintenance cost & workload
- Easy access to light engine for maintenance
- Redundant light engine improves reliability
- Mil-Spec Qualified/ COLREGS Approved

Our Products

Our illumination systems include a light engine, cable and optical diffusers (luminaires) that are specifically designed to meet the demands of the application.



Light Engine



LED or Metal Halide Illuminator

Cables



Traditional Cable



Side Emitting Fiber

Optical Diffuser



Spot Light



Composite Luminaire

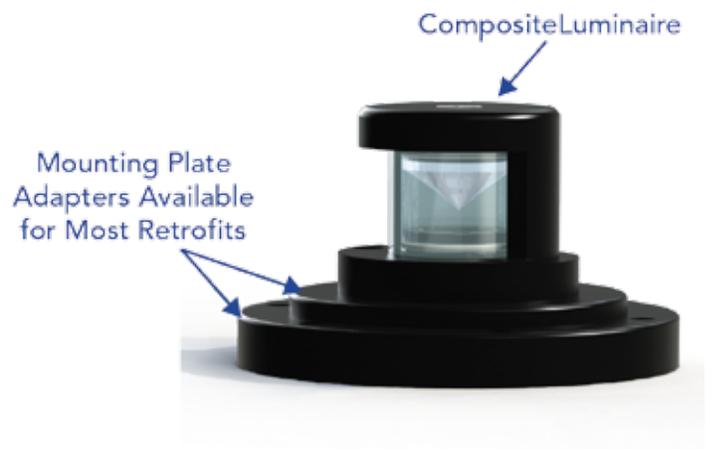


Waterline Security Luminaire

Straightforward Retrofit

RSL Fiber Systems will design, manufacture, and install the next generation lighting systems that will meet the fleet modernization objective of reduction in ships' operating and support (O&S) costs. These lighting systems reduce maintenance, mitigate topside corrosion, improve safety, and decrease energy consumption. The hardware is designed for ease of installation on new constructions and retrofit on in-service vessels with minimal or no hot work.

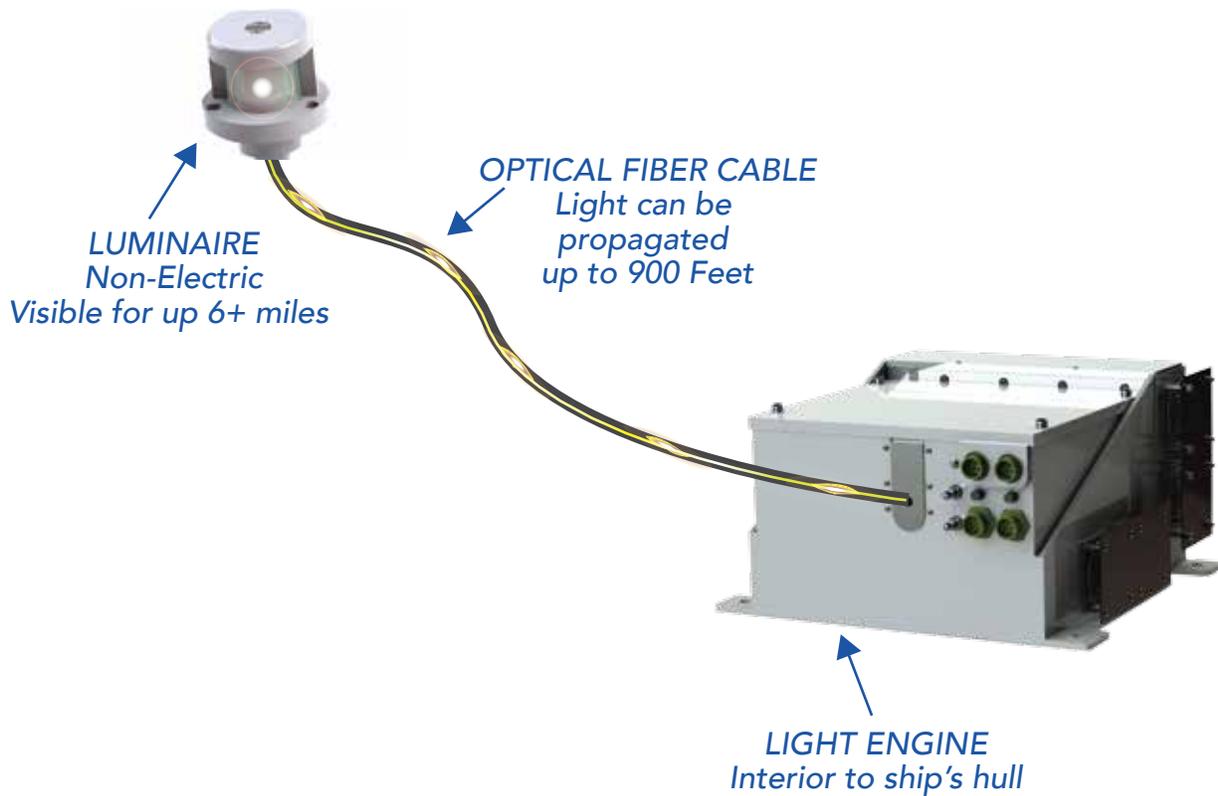
- RSL cable installed with conventional electrical cable practices
- Modular connector design eases field installation
- Self-contained, portable termination kit
- Seamless integration into existing ship's communications and control system
- Topside luminaires can be easily adapted to existing footprint, eliminating need for hot work
- Multiple colors, dimming, flashing, and night vision compatible options



Above: RSL luminaires can be provided with a non-metallic adapter base to fit into the legacy lights' footprint, eliminating the need for hot work during retrofits and upgrades.

On Left: Electrician's Mate Fireman Juan Fernandez performs maintenance on signal lights aboard the aircraft carrier USS George H.W. Bush (CVN 77). Topside lighting maintenance is virtually eliminated with fiber optic remote source lighting systems: the light engine is placed in an easily accessible area for routine maintenance.

The Technology



Our Service

RSL Fiber Systems uses a total system approach to determine the needs of the application by working closely with clients to design and qualify the most effective lighting solution. The approach may entail developing a new prototype, adapting an existing system, or evaluating and applying new lighting technologies to completely change the lighting paradigms.

The operation team provides installation and field services including maintenance, repair, and integrated logistics support to insure that the systems are supported during construction and throughout the ship's lifecycle. Documentation includes a comprehensive technical manual with field troubleshooting procedures and guides. All spare parts and components are in the National Stock Number system.

