

GRAND LIGHT

★ Lighting & Design Since 1929 ★



Church & Religious Institutions

- 2026 EDITION -

★ Historic Lighting Restoration & Custom Lighting ★

RESOURCE BOOK



GRAND LIGHT

Lighting & Design Since 1929

**Lighting Restoration &
Custom Lighting Factory**

**104 Day Street
Seymour, Connecticut 06483
Telephone: 1-800-922-1469
Email: info@grandlight.com
www.grandlight.com**

Table Of Contents

Section 1: Company Overview

- 1.1 About Us
- 1.2 Executive Personnel: Principal
- 1.3 Executive Personnel: Vice President

Section 2: Pre-Project Planning

- 2.1 On-Site Survey
- 2.2 Historic Research
- 2.3 Formal Proposal

Section 3: On-Site Capabilities

Section 4: Transportation & Storage

- 4.1 Transportation Solutions
- 4.2 Storage Solutions

Section 5: Submittals

- 5.1 Submittals
- 5.2 Client Consultation
- 5.3 Computer Aided Design
- 5.4 LED Advantage

Section 6: In-Factory Capabilities

- 6.1 Mechanical Capabilities
- 6.2 Finishing Processes
- 6.3 Electrical Capabilities
- 6.4 Crystal, Glass, & Acrylic

Section 7: Custom Capabilities

Section 8: Project Portfolios

Section 9: Historic Restoration Guidelines

Section 10: The Grand Light Difference



Section 1: Company Overview

Section 1.1 About Us

Section 1.2 Executive Personnel: Principal

Section 1.3 Executive Personnel: Vice President



Custom Fabricated Light Fixtures Installed On-Site

About Us

GRAND LIGHT
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New Grand Light, LLC - Lighting & Design

104 Day Street – Seymour, Connecticut 06483

Primary Contact – Ryan Stockman

Telephone: 800-922-1469

Email: info@grandlight.com Website: www.grandlight.com



Scan to Connect with Grand Light

Who is Grand Light?

Grand Light, located at 104 Day Street, Seymour, Connecticut, is an experienced restorer of historic lighting fixtures, a manufacturer of custom lighting fixtures, and has served the interior and exterior lighting needs of professionals for over 90 years by setting a standard of offering handcrafted, design-oriented, quality fine lighting products.



What is the Grand Light Mission?

Our mission is to continue to differentiate ourselves as the ultimate source for the highest quality lighting products and the very best professional service available. We realize our clients' complete satisfaction is the most meaningful measurement of our continued success and pride ourselves in providing unparalleled customer satisfaction in all we do.

Why Chose Grand Light?

Our lighting restoration and custom lighting capabilities include research for historic accuracy, drawings, mock-ups, metal fabrication, polishing, painting, welding, abrasive blasting, refining metal components, glass fabrication, replacing all electrical components, rewiring and testing in accordance to UL standards.

Our team of specialists is comprised of professional metal workers and glass blowers whose mission is to restore, create, or re-create lighting fixtures of the utmost quality and authenticity. Our lighting fixtures are wired in accordance with UL standards, and our team of artisans stands confidently behind their work with years of experience and dedication to quality craftsmanship.



American Artisans At Work Preserving History



Client Consultation and Photometric Demonstration

Stephen L. Stockman

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“It’s historical art, intricate, detailed. Electrical has a 100-year lifecycle, but at the end of that lifecycle they’re not just going to throw it out. That’s why we do what we do.”

- Steve Stockman



**Principle, Lighting Designer
Steve Stockman**

Steve, a forty year industry veteran, has held a variety of sales engineering, and senior management positions with General Electric Co. and Grand Light.

Steve is a graduate of Allegany College, Triangle Tech, and General Electric TMP Program, and has or currently participates in Industry Organizations such as IES, IALD, NAED, AIA, ALA, and APTNE.

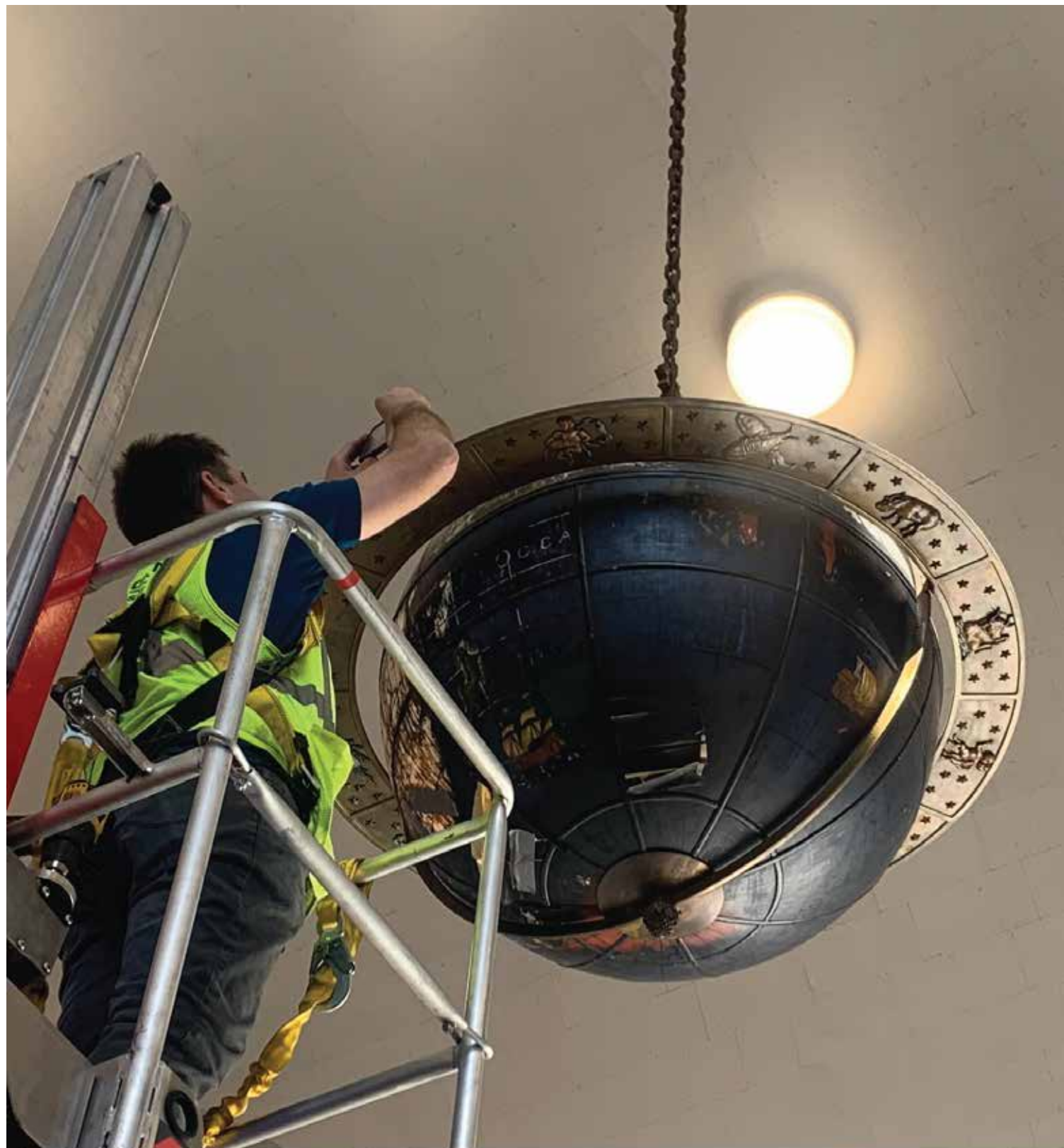
Steve is an active member of day-to-day operations providing oversight of all engineering, administration, including UL testing procedures for restoration, replication, and custom lighting products. Steve is a certified OSHA Hazard Recognition Training for the Construction Industry. Grand Light is an Underwriters Laboratories certified manufacturer for luminaires (Standard 1598).

Steve’s Participation in your Project will include:

- Develop overall project scope, timelines, manpower allocation, and vendor resources.
- Develop internal procedures consistent with achieving the project specification and delivery requirements.
- Develop project specific mechanical and/or electrical requirements.
- Develop project specific metal finishing procedures including research, recipes, testing, sampling, mockups, and production runs.
- Provide daily interaction with factory and administrative staff to ensure quality standards are upheld and the project is completed consistent with customer requirements.



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On-Site Survey & Fixture Condition Documentation

Ryan M. Stockman

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“Those lighting fixtures existed before us and will remain long after, so it is quite an honor to have our artisans’ work immortalized”

- Ryan Stockman



Scan to Connect with Ryan



**Vice President
Ryan Stockman**

Ryan Stockman, Vice President of Grand Light, is a nationally recognized lighting restoration expert. Backed by over 20 years' experience having held various sales, engineering, and manufacturing positions, he has led many of the company's award-winning restoration, replication, and custom lighting projects.

Over the past decade, he has gained experience modifying existing lighting systems with energy efficient LED retrofit kits for a variety of clients, including government, religious, educational and cultural institutions, architects, electrical contractors, and designers. His approach with LED retrofitting focuses on preserving the historic integrity of a fixture, while upgrading an existing lighting system with brighter, more efficient lighting.

Ryan's Participation in your Project will include:

- Development of all project specific administration and communication procedures
- Develop and maintain all customer relations and communications
- Provide project management and elaboration with company principal
 - A. Overall project scope, timelines, manpower allocation, and vendor resources
 - B. Internal procedures consistent with achieving the project specification and delivery requirements
 - C. Project specific mechanical and/or electrical requirements
 - D. Project specific metal finishing procedures including research, recipes, testing, sampling, mock-ups, and production runs
 - E. Provide daily interaction with factory and administrative staff to ensure quality standards are upheld and the project is completed consistent with customer requirements
- On-site supervision and management of Subcontractors and Grand Light Artisans



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Section 2: Pre-Project Planning

- Section 2.1** On-Site Survey
- Section 2.2** Historic Research
- Section 2.3** Formal Proposal



On-Site Electrical Inspection of Grand Chandelier

On-Site Survey

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Historic fixtures are individually inspected and documented during a site survey. Typically, an on-site evaluation involves a site visit to examine, identify, and document the existing condition and all mechanical, electrical, and finish deficiencies of each lighting fixture.

Site evaluations are common with large-scale restoration projects, and provide key insight into project cost projection, operation and maintenance considerations, design and construction principles, and required restoration processes.

Condition Reports

Condition reports include inventory of any damaged or missing components or glass, noticeable structural deficiencies, electrical assessment, material analysis, and finish conditions.

Reports may also include:

- Project Cost Projection
- Design & Construction Principles
- Recommended Restoration

Processes

- Operation & Maintenance Considerations
- Fixture Condition (Finish, Mechanical, Glass/Crystal, and Electrical Inspection)

Information Collected

- | | |
|---|--|
| ☒ Project Cost Projection | ☒ Operation & Maintenance Considerations |
| ☒ Design and Construction Principles | ☒ Recommended Restoration Processes |
| ☒ Type and Size of Fixture | ☒ Number of Fixtures |
| ☒ Number of Lamps per Fixture | ☒ Number of Lamps per Ballast |
| ☒ Type of Lamps and Ballasts | ☒ Fixture Condition |
| ☒ Unique Fixture Types or Features | ☒ Fixture Mounting Conditions |
| ☒ Room/Location Aesthetics and Design | ☒ Existing On-Site Conditions |



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Historical Archive Photograph Referenced for Historic Replication (Circa. 1900)

Historical Research

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Grand Light conducts thorough pre-project research, incorporating all findings, including historic archival material, to inform the decision making process. Historical photos, drawings, and documentation are meticulously reviewed to ensure our restorations and replications remain as faithful to the original as possible.



Photographs



Drawings



Documentation

Historical Research & Generating Scope of Work

To specify the scope of work required for a project, Grand Light carefully considers all provided information in addition to meticulous historical studies.

For new replications of existing and non-existing lighting, work shall include complete studies of photographs, drawings, and available historic information. This allows for concise preparation and design of engineering drawings with complete bills of materials for the fabrication of each fixture.

Our Historical Archives Include:

- ☒ Edward F. Caldwell & Co.
- ☒ J. L. Mott Iron Works
- ☒ Lincoln Manufacturing Co.
- ☒ Virden Lighting
- ☒ A. W. Reiser Co.
- ☒ Bradley & Hubbard Mfg. Co.
- ☒ Bergmann & Co.
- ☒ Markel Lighting
- ☒ H. J. Peters Co.
- ☒ McKenney & Waterbury Co.
- ☒ Joseph E. Frechie & Co.
- ☒ Ward Hendrickson & Co.
- ☒ Victor S. Pearlman & Co.



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In-Factory Client Consultation and Fixture Restoration Progress

Formal Proposal

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Our Formal Proposals provide comprehensive documentation that defines the project scope, approach, timeline, and projected cost of the restoration. The goal is to present clients with a clear and transparent plan that supports confident decision-making throughout the process.



The image shows a screenshot of a formal proposal form. It includes sections for 'Project Information', 'Scope of Work', 'Budget', and 'Terms and Conditions'. There are numerous checkboxes and fields for detailed project specifications.

Project Proposals

Grand Light's formal project proposals include all work and recommendations generated during survey and condition report feedback. These proposals are detailed documents which outline project summary, objectives, technical approach, allotted deliveries/pickups, budgetary options, special qualifications, and terms and conditions. Our proposals are often supplemented by illustrations including photographs, drawings, diagrams, and schedules.

Grand Light provides on-call support with our dedicated project management team, consisting of project managers and support staff, to assist in any questions, concerns, reviews, and documentation. We believe in an honest line of communication and transparency enables our team to stay ahead of your project and quickly identify any potential issues that may impact budgets, schedules, and designs.

Your Formal Proposal Includes:

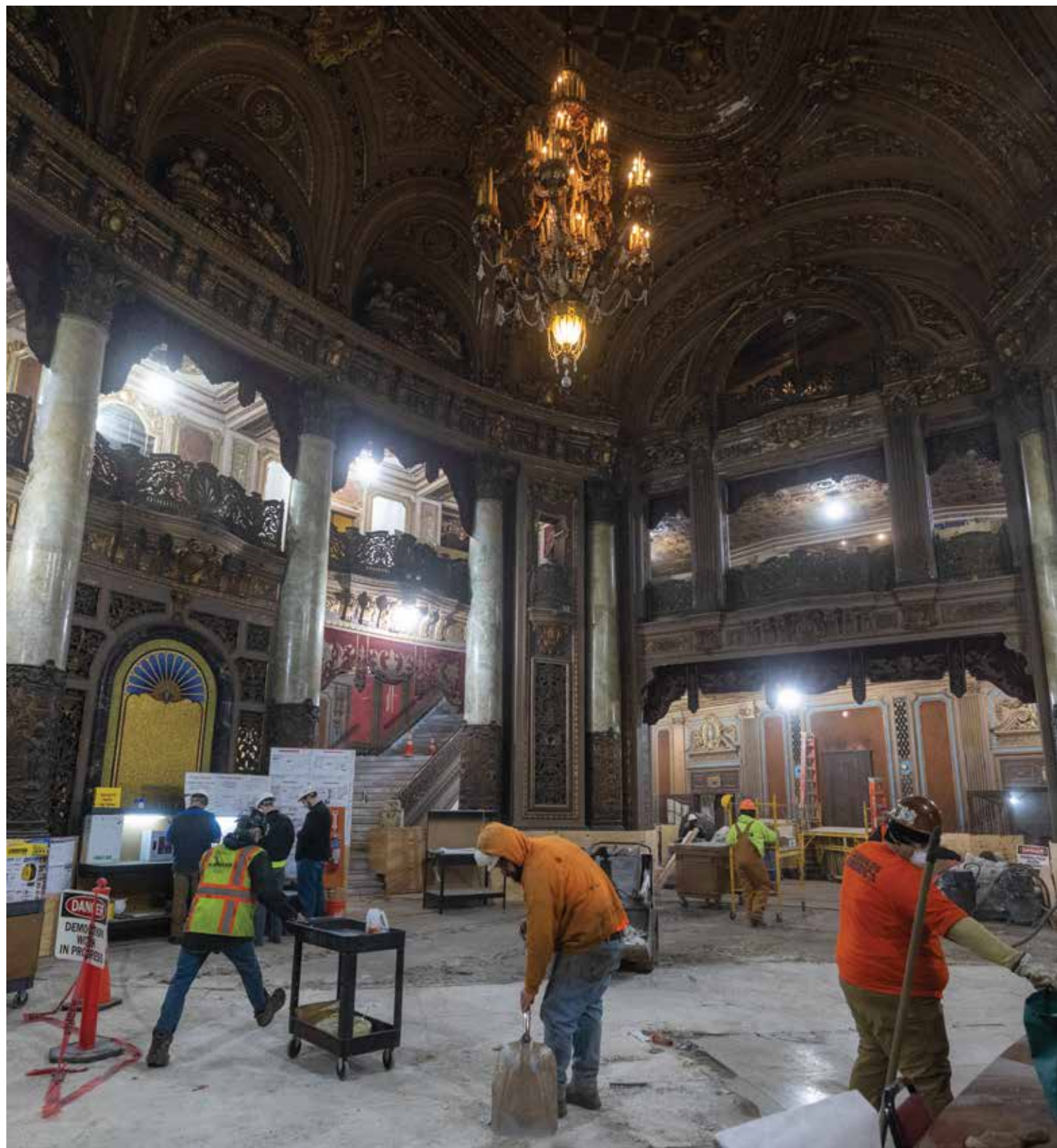
- ☒ Recommended Restoration Processes
- ☒ Budgetary Revisions with Alternative Options
- ☒ Projected Cost
- ☒ Terms and Conditions
- ☒ Delivery, Pickup, and Transportation
- ☒ Project Specific/Special Qualifications
- ☒ On-Call Project Managers for Review and Questions



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Section 3: On-Site Capabilities



On-Site Removal of Historic Theatre Light Fixtures

On-Site Capabilities

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Cleaning



Removal



Packing



Crating



Transportation



Installation

Grand Light's on-site capabilities are often an essential part of the restoration & custom lighting process. Grand Light specialists strive to ensure historic lighting fixtures are removed, cleaned, repaired, packed, transported, and installed in the safest and most conscientious methods possible. Our approach puts our customer first, with flexible on-site service scheduling offered at the client's convenience and without causing any disruption to daily activities. Work areas are left in the same manner it was found prior to leaving a site.



On-Site Equipment and Services

- Rigging, Lifts, Cranes
- Crystal Dressing/Removal
- Temporary Fixture Installation
- Packing & Crating
- Removal & Installation
- Transportation
- HSMI Cleaner
- Supervision & Instruction



Commercial Cleaning Services

Grand Light's on-site cleaning specialists utilize leading technology, decades of experience, and an unwavering commitment to providing superior historic lighting restoration results to our clients. Our specialists have a thorough understanding and extensive experience in cleaning a variety of surfaces including metal, wood, marble, plaster, and crystal using our proprietary cleaning solutions. These include our Hydrosonic Molecular Impact System (HSMI) and advanced ultrasonic technology.



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Section 4: Transportation & Storage

Section 4.1 Transportation Solutions

Section 4.2 Storage Solutions



On-Site Removal & Transportation of Historic Light Fixtures in the U.S. Capitol

Transportation Solutions

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Tractors



Trailers



Flatbeds



Box Trucks



Pickup Trucks

Grand Light possesses a fleet of specialized trucks, trailers, flatbeds, and tractors purpose-built for the safe and precise transportation of historic light fixtures. Each vehicle is configured to accommodate fragile and irreplaceable pieces, ensuring secure handling at every stage of transit. Our box trucks and trailers are fitted with custom engineered mounting, supporting, and bracing systems that provide the highest standard of protection in transit.

Our Transportation Fleet Includes:

- Specialized Box Trucks
- Specialized Trailers
- Flatbed Trailers
- Mahindra Tractor
- Pickup Trucks



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Historic Light Fixtures Stored in our Secured, Climate Controlled Warehouse

Storage Solutions

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Climate-Controlled



24/7 Professional Monitoring



State-of-the-Art Security System



Fully Insured

Utilizing our newly built, climate-controlled, and fully secured warehouse, Grand Light offers both short-term and long-term storage solutions to all luminaires, providing a safe, convenient, and secure location.

Our storage facilities are equipped with our 24/7 sophisticated and professionally monitored security system. Insurance options are offered to all fixtures for the duration of the storage time.

*Luminaire condition reports are offered to all stored luminaires and may include an inventory of any damaged or missing components or glass, noticeable structural deficiencies, electrical assessment, material analysis, and finish conditions.



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Section 5: Submittals

- Section 5.1** Submittals
- Section 5.2** Client Consultation
- Section 5.3** Computer Aided Design
- Section 5.4** LED Advantage



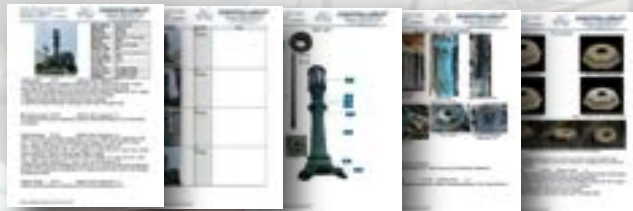
**Vice President Ryan Stockman Giving In-Factory Lighting Presentation:
“Adapting the Past to an LED Future”**

Submittals

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Grand Light prepares comprehensive submittal packages including bid documents, condition reports, shop drawings, and material samples. These incorporate detailed fixture analysis, restoration planning, and design coordination. Findings are reviewed with the design team to guide approvals, mock-ups, and precise execution.



Project Submittals

Grand Light refers to contract bid documents and survey condition reports in addition to shop drawings, product data, samples, and submission procedures in generating a comprehensive submittal package. Our submittals include work scope supplemented with in-depth analysis of existing pre-restoration conditions, computer models/renderings, lighting control design/programming, and mechanical, electric, finish, and crystal/glass/acrylic component analysis.

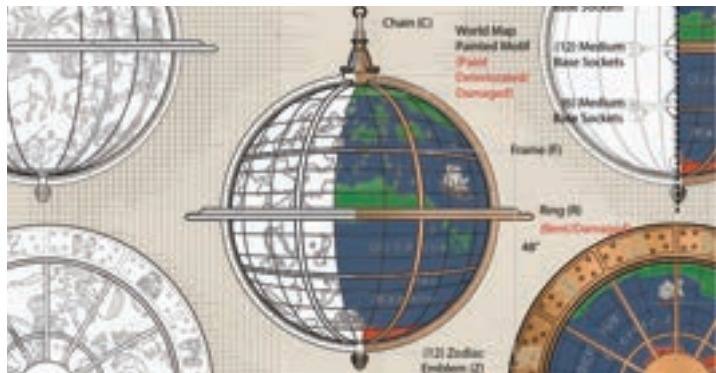
During this evaluation, Grand Light can go through each fixture type and sample the material to determine the process for cleaning and wiring, as well as identifying any component replications, repairs, or modifications. This information, including all on-site information, will be compiled in a submittal and sent along for design team review. Once this submittal is sent, we can schedule a time for the design team to come down to our factory to review the submittals along with each fixture and any mock-ups we put together during this process.

Grand Light can also provide shop drawings for both existing and custom fixtures that can depict critical information for mechanical and electrical construction, structural modifications, manufacturer, materials, finishes, lamping, voltage, ballast information and mounting details.

Samples of shades, glass diffuser material, metals and metal finish samples are submitted for approval prior to proceeding with mock-ups, fabrication, or restoration processes.

Your Project Submittal Includes:

- ☒ Work Scope
- ☒ Factory Evaluation & Analysis
- ☒ Pre-Restoration Condition Report
- ☒ Drawings
- ☒ Computer Models/Renderings
- ☒ Lighting Control Design/Programming



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In-Factory Client Restoration Progress Tour

Client Consultation

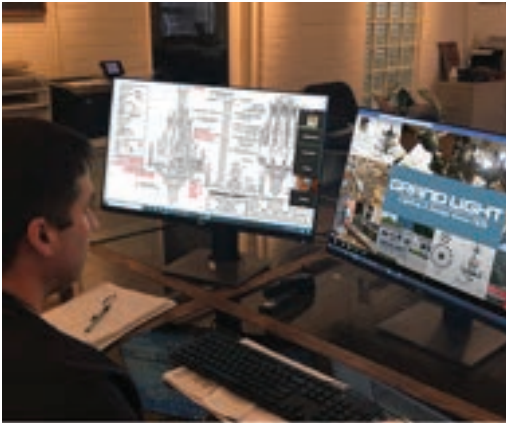
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At Grand Light, we believe in delivering the highest quality of professional service to our clients. On-demand consultations are available to clients at any stage of the restoration/fabrication, ensuring that the planning and action phases are collaborative and comprehensive. Mock-up fixture designs are provided to effectively convert concept into reality.

Communication & Consultation

Grand Light offers on-demand video conferences, phone calls, and in-person consultations to help our collaborators make informed, confident decisions at every stage of the restoration process. Whether at the initial planning stage or mid-project, our team is readily available to collaborate in real time. We use consultations to present concepts, explore design options, and reach decisions that best meet the needs of our partners.

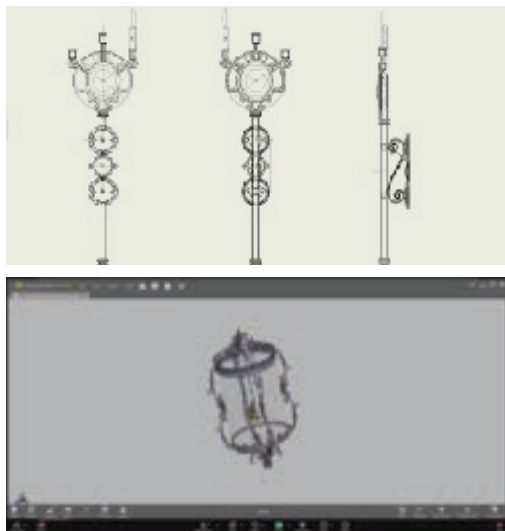
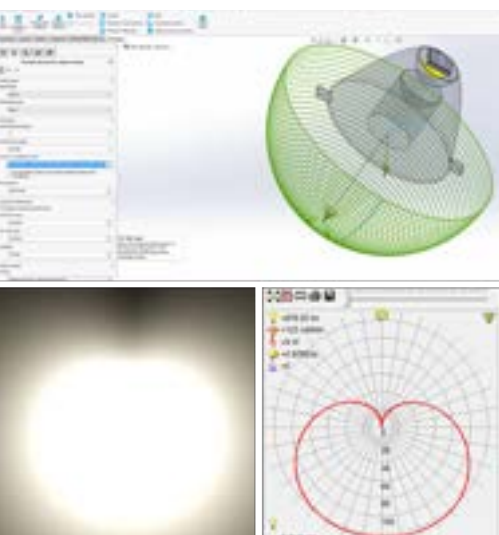
Given the unpredictable nature of historic restorations, responsive communication is essential. We maintain consistent, direct communication with our clients, allowing us to quickly identify and react to changing circumstances that may impact budgets, schedules, and designs.



Mock-Ups

When working on one-of-a-kind historic fixtures, it is crucial to develop a comprehensive restoration strategy before proceeding. Mock-ups serve as a bridge between concept and final product, allowing key decisions to be evaluated and refined in advance.

Depending on project needs, we create 2D architectural drawings and fully realized 3D models using advanced CAD software. These designs can be supplemented with finish samples, photorealistic renderings, photometric data, and to-scale 3D printed prototypes. Together, these tools allow our clients to clearly visualize the designs and make informed decisions.



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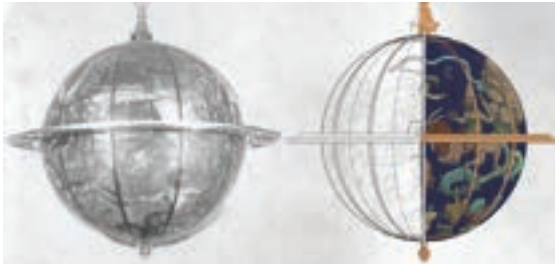
Photometric Data Simulation

Computer Aided Design

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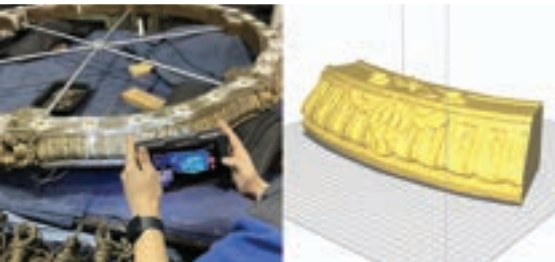
COMPUTER AIDED DESIGN PROCESSES

Grand Light utilizes advanced computer-aided design software to support our comprehensive lighting design process. Our engineering team is capable of producing precise drawings, renders, simulations, and prototypes with our state-of-the-art design technology.



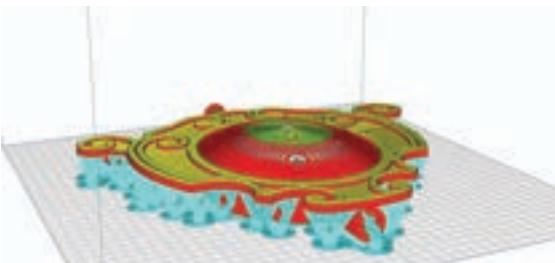
2D Drawings

During our on-site survey, each fixture is thoroughly photographed and documented. Based off of these findings, as well as all available historical documentation, Grand Light creates hand-drawn or computer-aided line drawings to serve as blueprints throughout the production process.



3D Scanning

Grand Light possesses a cutting-edge 3D laser scanner that allows our team to generate high-resolution models of individual components or entire fixtures. This portable technology enables us to quickly and precisely capture scans of intricate details in-shop or during on-site surveys.



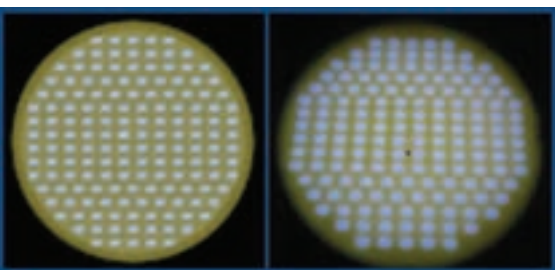
3D Modeling

CAD software such as SolidWorks, along with scanning technology, allows our team to produce highly accurate digital models of fixtures. Models are used to define dimensions, highlight the scope of work, and allow for a 360° visualization of the design so our collaborators make informed, confident decisions.



3D Printing

Our in-house 3D printer is used to fabricate to-scale physical prototypes of components or whole fixtures. 3D printed models are an efficient and cost-effective way to mock-up fixture modifications, replica parts, and verify the accuracy of dimensions.



Photometric Analysis

Using Photopia, a photometric analysis software, Grand Light is able to test how a light fixture will perform in a given environment. Photometric simulations help maximize illumination from a given energy input, confirm expected performance, and custom tailor optics to meet project-specifications.



National World War I Memorial After LED Retrofitting



Integrated/Dedicated LED



Screw-In LED



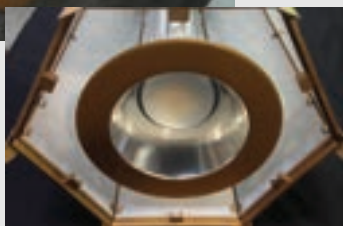
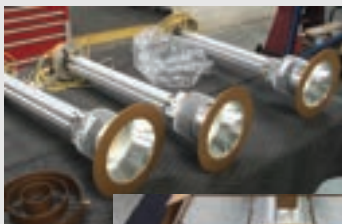
CFL to LED

Grand Light has over a decade of experience modifying existing lighting systems with energy efficient LED retrofit kits for a variety of clients, including government, religious, educational and cultural institutions, architects, electrical contractors, and designers. We pride ourselves on preserving the historic integrity of a fixture, while upgrading an existing lighting system with brighter, more efficient LED lighting.

Retrofitting your existing fixtures can be a cost effective way to improve the performance of a luminaire without the costs of replacing it. In general, having historic lighting fixtures retrofitted can drastically decrease electric bills, energy consumption, and increase the overall brightness of a room. When incandescent lamps are upgraded with an LED retrofit, the result is a room that is up to (3) times brighter, savings up to 80% in recurring energy costs, and extended operational lifespan.

LED ADVANTAGE

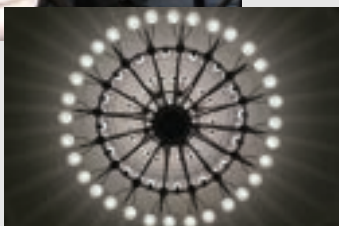
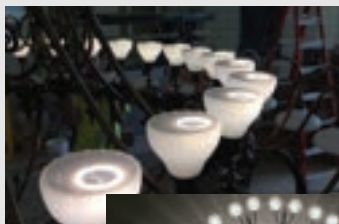
*Integrated/Dedicated
LED Retrofit Solutions*



- Customizable high output retrofit system incorporated into fixture's existing housing
- Utilizes specific chips and remote drivers built to last 20-25 years without maintenance
- High output, dimmable
 - Cons: Higher cost, difficult replacement, modification required

LED ADVANTAGE

*Screw-In LED
Retrofit Solutions*



- Utilizes established tried-and-true sockets
- Easy installation, no modification, easy replacement, no external drivers
- Variety of adjustable color temperatures and beam angles
- Reduced energy consumption
 - Con: Limited Dimming Options

LED ADVANTAGE

*CFL To LED
Retrofit Solutions*



- Designed to replace outdated CFL technology for pin lamps, reduce energy consumption and cost
- Easy installation, easy replacement, compact design
 - Con: LED System must be tailored to use a specific lamp/driver



Custom Dedicated LED Retrofit Modules

LED ADVANTAGE

Integrated/Dedicated LED Retrofit Solutions

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The **LED ADVANTAGE**

Custom designed LED retrofit kits made specifically to suit any luminaire and tested through photometric research, converting incandescent light fixtures to be fully compatible with classic UL 1598C Certified LED sockets.

- All-in-one energy-efficient design utilizing established tried-and-true sockets
- Easy installation: Conveniently replace old bulbs and trims in existing housing without requiring new wiring
- No extraneous modification needed
- Easy replacement
- No external drivers
- 50,000+ hour lifespans due to built-in LED diodes and drivers
- Dimmable
- Color Options: Amber, 2200K-5000K, Dim-to-Warm, RGBW, Tunable White 1800K-6500K
- UL 1598C Listed

System Spotlight: Adapting St. Peter's Church To An LED Future

Grand Light modified numerous historic pendant lights from an 1853 chartered church for an energy efficient lighting project. After significant product tests, calculations, and mock-ups; a custom integrated LED module was designed for installation in the existing fixtures, including a custom driver with diodes, and a downlight optic assembly for controlled lumen output. These enhanced the performance of the fixture while significantly decreasing each fixture's energy consumption via and required maintenance.

LED ADVANTAGE: "Beacon" System

- LED Boards implemented for even illumination for abnormally shaped diffusers arrangement
- Replacement for internal incandescent/fluorescent lamps
- Additional Optic assembly installed at the base of the system allowing for controlled downlight lumen output
- State-of-the-art heat sinks and airflow for regulation



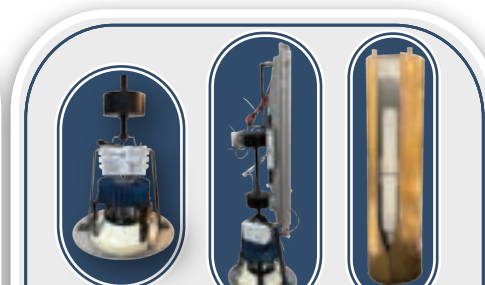
3000K
1,200 Hours
60w Lamp

> 2700K
50,000 Hours
42w Downlight, 10w Strips



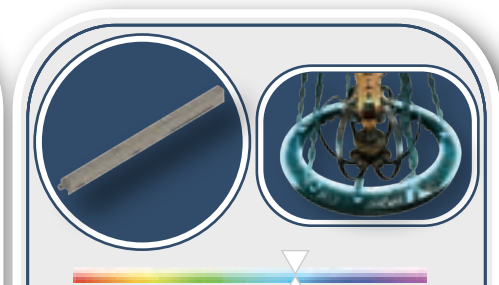
Exterior Kits

- Dimmable LED solutions specifically made for interior or exterior fixtures
- Custom design, layout, and easy drop in or mounting to accommodate fixture needs
- Metal parts fabricated for convenient driver implementation or mounting
- Easy installation and modifiable colors



Interior Kits

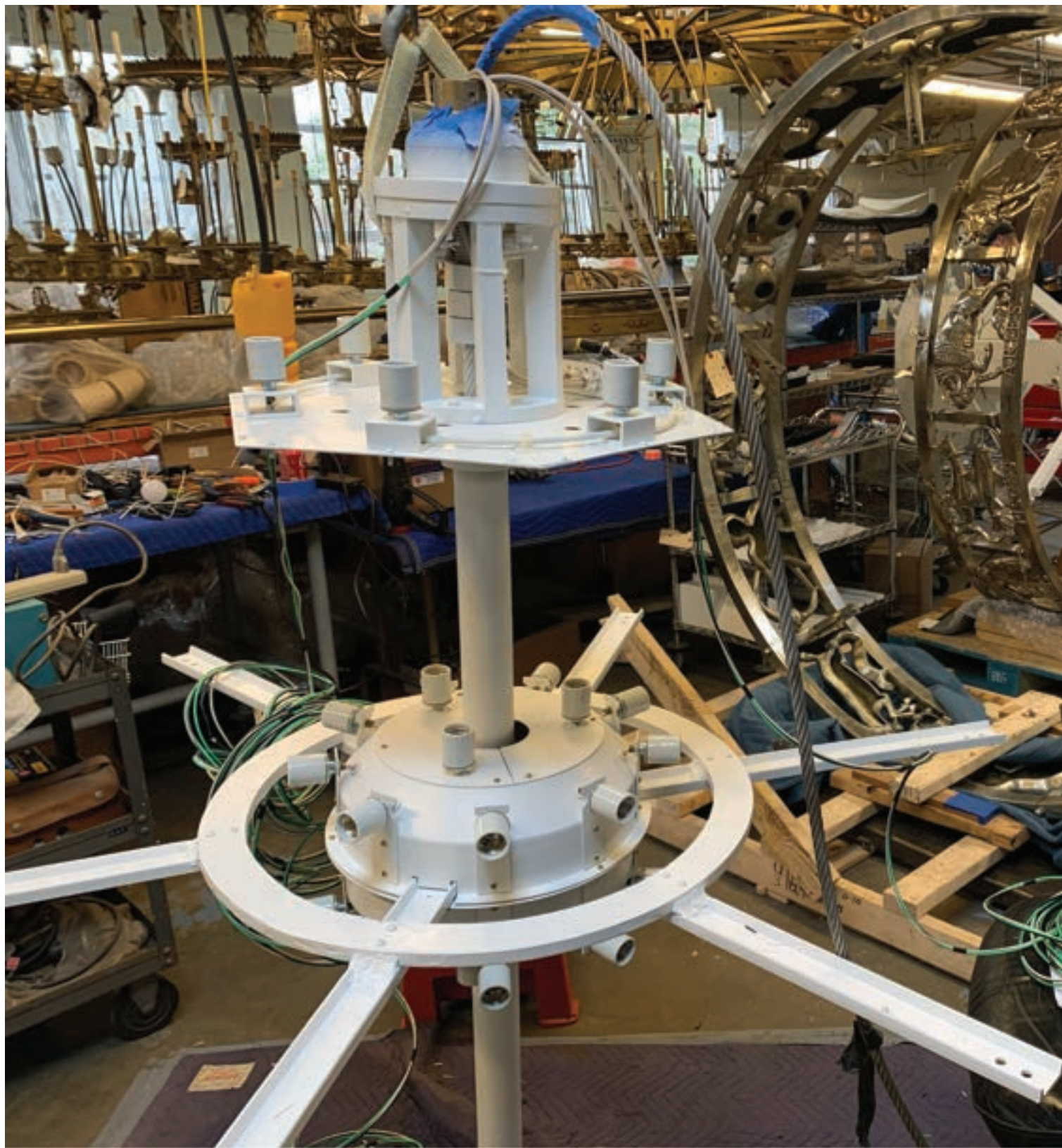
- Multipurpose custom kits for extended linear distribution of light
- Highly adaptable to long or tall fixture designs
- Uplight & Downlight Compatible



Theatrical Kits

- Highly theatrical modifiable color with temperatures ranging from 1900K-10000K
- Wireless DMX decoding, allowing for convenient remote control
- Subtle, sleek, adaptive designs

Adapting The Past to The Future



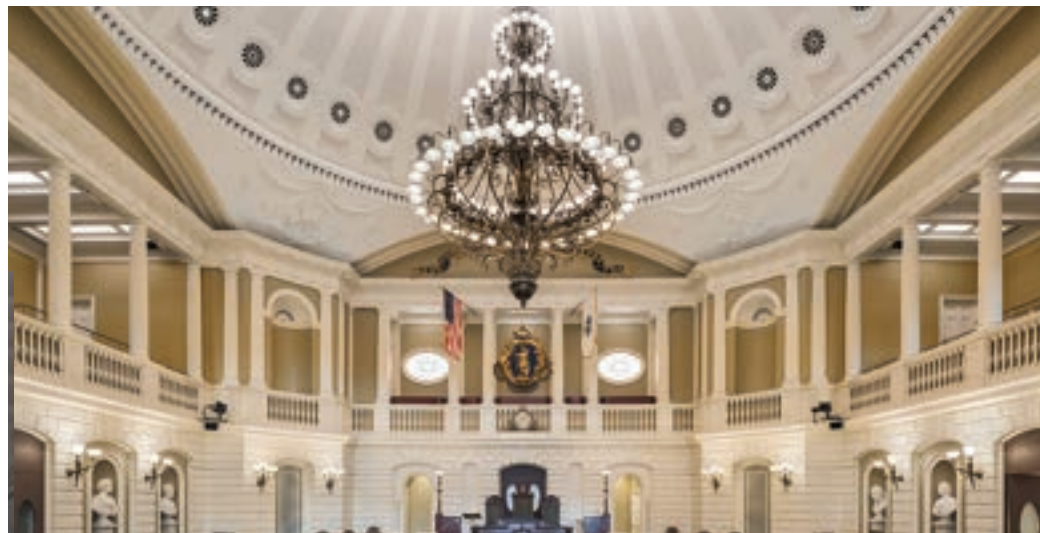
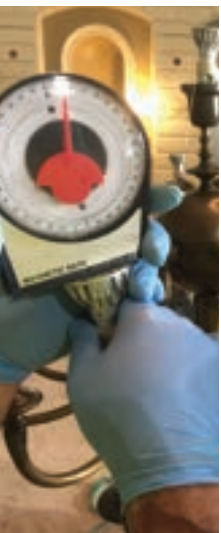
Custom LED Screw-In Retrofit Assembly

LED ADVANTAGE

Screw-In LED Retrofit Solutions

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The **LED ADVANTAGE**

Utilizing established tried-and-true sockets and making great technological strides in recent years, upgrading Incandescent to an LED System has never been easier.

Incandescent to LED Screw-In Retrofit Kits:

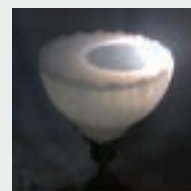
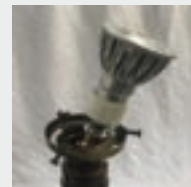
- Utilizes Classic Screw-In Sockets
- No modification to existing fixture housing
- Low maintenance
- Easy replacement
- Significantly reduced energy usage
- Significantly longer lifespan
- Reduced costs over time
- Variety of Adjustable Color Temperatures before final installation (2200k-5000k)
- Improved Safety
- UL 1598C Listed

System Spotlight: Breathing New “Light” Into Beacon Hill

The renowned Massachusetts State House Senate Chamber renovation project required the development of adjustable screw-in LED uplights that highlighted the dome of the Senate Chamber. A custom shade was designed and replicated from the historic original, while incorporating an acrylic lens to reflect light downward without interfering with the precise optics of the GU10 lamp. The retrofit solution resulted in the Senate Chamber dome being properly illuminated in addition to the remainder of the room.

LED ADVANTAGE: “Photon” Kit

- (80) GU10 Uplights
- 2700K Color Temperature
- 7.5W (390 lm)
- 25,000 Hour Lifespan
- Adjustable Beam Angle
- Precision Ambient Illumination
- Dimmable



50W
~ 16 lm/W
v
7.5W
52 lm/W



Integrated Screw-In Assembly

- 2200K - 5000K Color Temperature
- Up to 120W, 14,400lm
- Directional Lighting Options
- 0 - 10V Dimming



LED Screw-In Lamps

- 2200K - 5000K Color Temperature
- Safe for Enclosed Fixtures & Damp Environments
- Dimmable



Directional GU10 Lamp

- 2700K - 4000K Color Temperature
- Dimmable
- 7.5W - 9W, 390lm - 490lm
- Beam angles: 10°, 25°, 36°, 60°

Adapting The Past to The Future



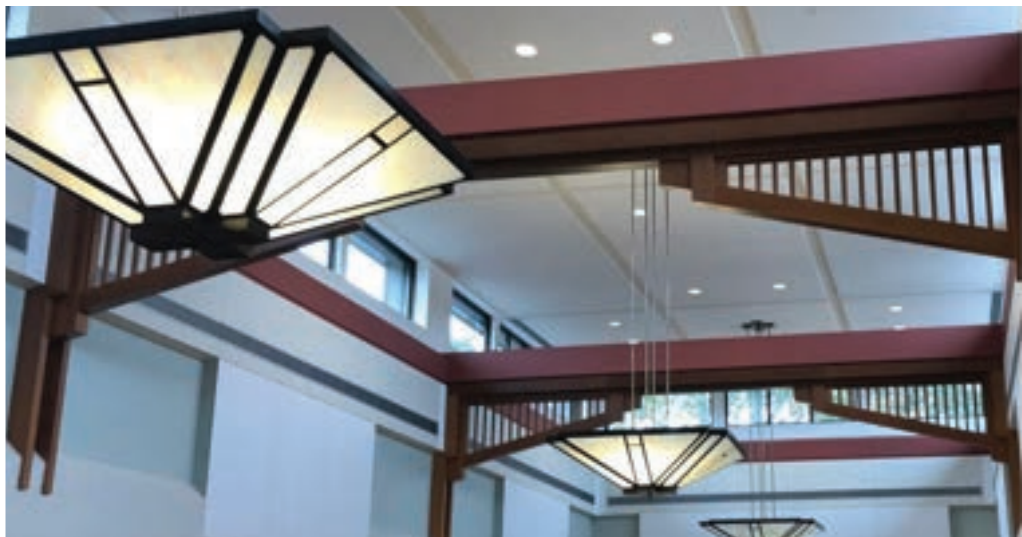
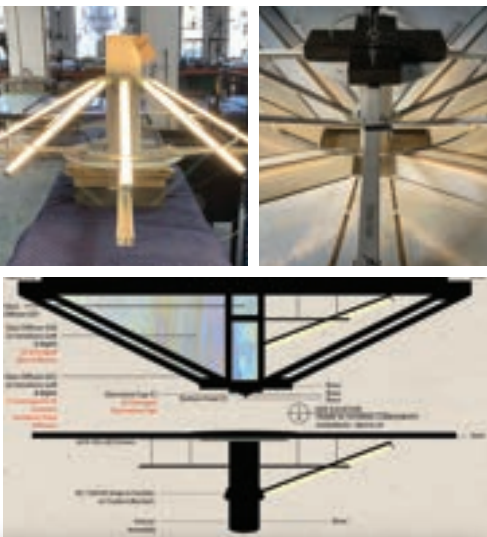
Custom Pin-Base LED Retrofit Module Wiring

LED ADVANTAGE

CFL To LED Retrofit Solutions

GRAND LIGHT

Lighting & Design Since 1929



The **LED ADVANTAGE**

Designed specifically to replace outdated CFL technology for pin lamps, Grand Light's exclusive LED conversions can offer significant reduction in energy consumption and costs by more than half per lamp.

Pin Based Retrofit Kits include:

- Increased Energy Efficiency & Safety
- Longer Lighting Lifespan
- Reduced costs over time
- Compact Design
- Variety of Color Temperatures, Dimmable
- Instant brightness with no warmup time
- 50,000-100,000 Hour Lifespan, No Maintenance Required
- Easy Installation and Replacement
- UL 1598C Listed

System Spotlight: Fairfield University's DiMenna-Nyselius Library

Grand Light retrofitted numerous, large pendant lights for this renowned University for an energy efficient lighting project. Grand Light's LED retrofit solution utilized (8) PLL 2G11 Base, 3000k LED Kits reducing the total energy consumption of the entire configuration to 50W per lamp, while increasing the maximum output to 5,000lm and a 50,000 hours lifespan. The custom retrofit systems were seamlessly integrated without additional modification to the fixtures, preserving their historical value.

LED ADVANTAGE: "Saber" Kit

- (8) PLL 2G11 Base Lamps
- 3000K Color Temperature
- 50W (5,000 lm)
- 50,000 Hour Lifespan
- (4) 32W LED Drivers
- Lutron Controller
- 0 - 10V Dimming



32W LED Driver



PLL 2G11 Base, 3000K LED Lamp



55w Fluorescent
4,128 Lumens

> 50w LED
5,000 Lumens



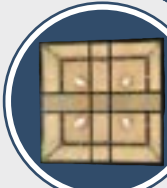
T5 & T8 Retrofits

- 3000K - 5000K Color Temperature
- Dimmable Controller Compatibility
- Simplified Installation & Maintenance
- Up To 50 - 70% Energy Savings
- 50,000 - 100,000 Hour Lifespan



2 & 4 Pin Retrofits

- 2700K - 5000K Color Temperature
- Dimmable Controller Compatibility
- Adjustable CCT & Lighting Direction
- Compact Design
- 25,000 - 50,000 Hour Lifespan



PLL Retrofits

- 3000K - 6500K Color Temperature
- Dimmable Controller Compatibility
- Ballast Bypass Options
- Adjustable CCT
- Up To 50,000 Hour Lifespan

Adapting The Past to The Future



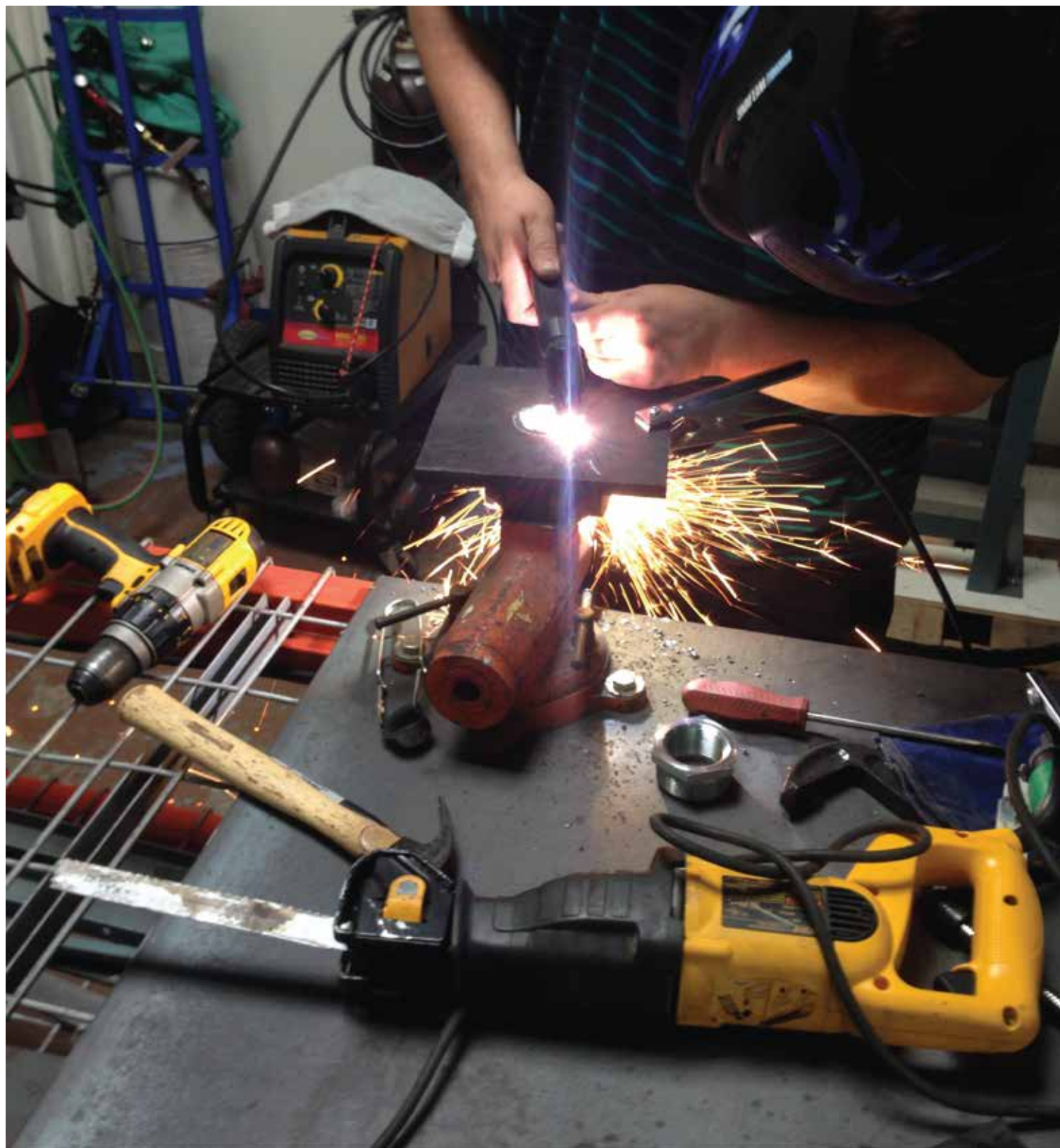
Section 6: In-Factory Capabilities

Section 6.1 Mechanical Capabilities

Section 6.2 Finishing Processes

Section 6.3 Electrical Capabilities

Section 6.4 Crystal, Glass, & Acrylic



Welding Repair of Historic Light Fixture Base

Mechanical Capabilities

GRAND LIGHT

Lighting & Design Since 1929



Inspection & Documentation



Repair



Modification



Fabrication

Grand Light's mechanical capabilities are an essential part of the restoration and custom lighting process. Utilizing only the best material, Grand Light strives to ensure only the highest quality of standards go into crafting each lighting fixture; from minor components to the complete fabrication of full sized luminaires.

Using the explicit instructions provided by custom drawings, our factory staff then transforms concepts into finished products incorporating the highest regard for accuracy.

Grand Light's technicians inspect and document any mechanical flaws or damage on every lighting fixture prior to any mechanical repair, replacement, or modification.

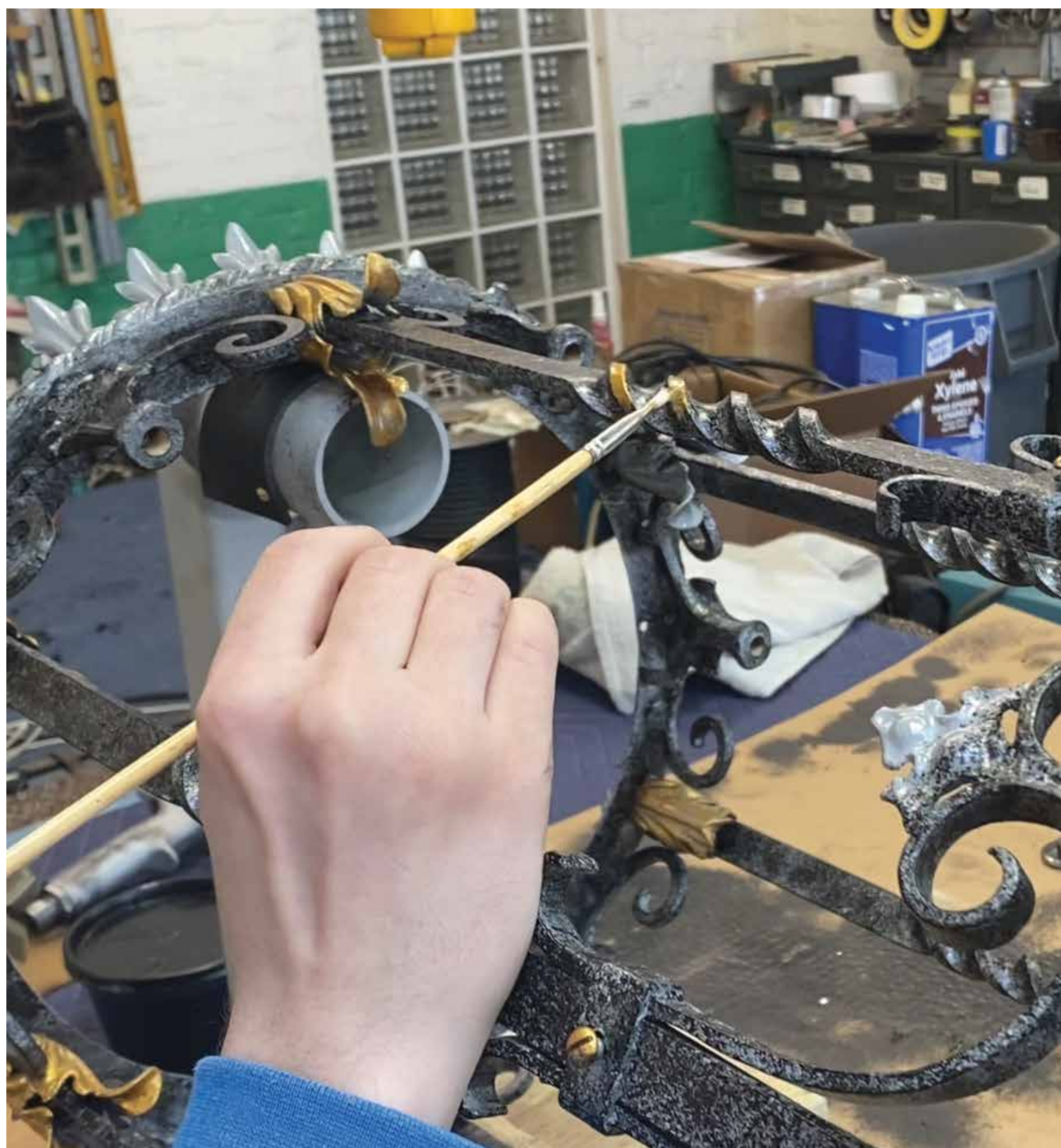
Project documentation, submittals, and reports are made available to clients for approval including work scope, schedule, record of materials, special provisions, and evaluation recommendations based on a lighting fixture's mechanical integrity.

Our Mechanical capabilities include:

- **Inspection & Documentation**
- **Metal Fabrication**
- **Glass & Acrylic Fabrication**
- **Welding**
- **Lost-Wax Casting**
- **Sodium Silicate & Resin Sand Casting**
- **Custom Tooling & Components**
- **Spinning, Stamping, & Hydroforming**
- **Metal Forming & Forging**



American Artisans At Work Preserving History



Hand Painting Intricate Finish Detail

Finishing Processes

GRAND LIGHT
Lighting & Design Since 1929



Cleaning



Surface Preparation



Painting



Polishing/Buffing



Patina Application



Protective Coatings

As a part of the restoration process, our artisans explore the intricate details of preserving the historic integrity of lighting fixtures including color matching and sheen of the original finish.

Custom lighting finishes are available in custom painted colors, sheen, and textures, as well as custom patina colors on bronze, copper, and brass components.

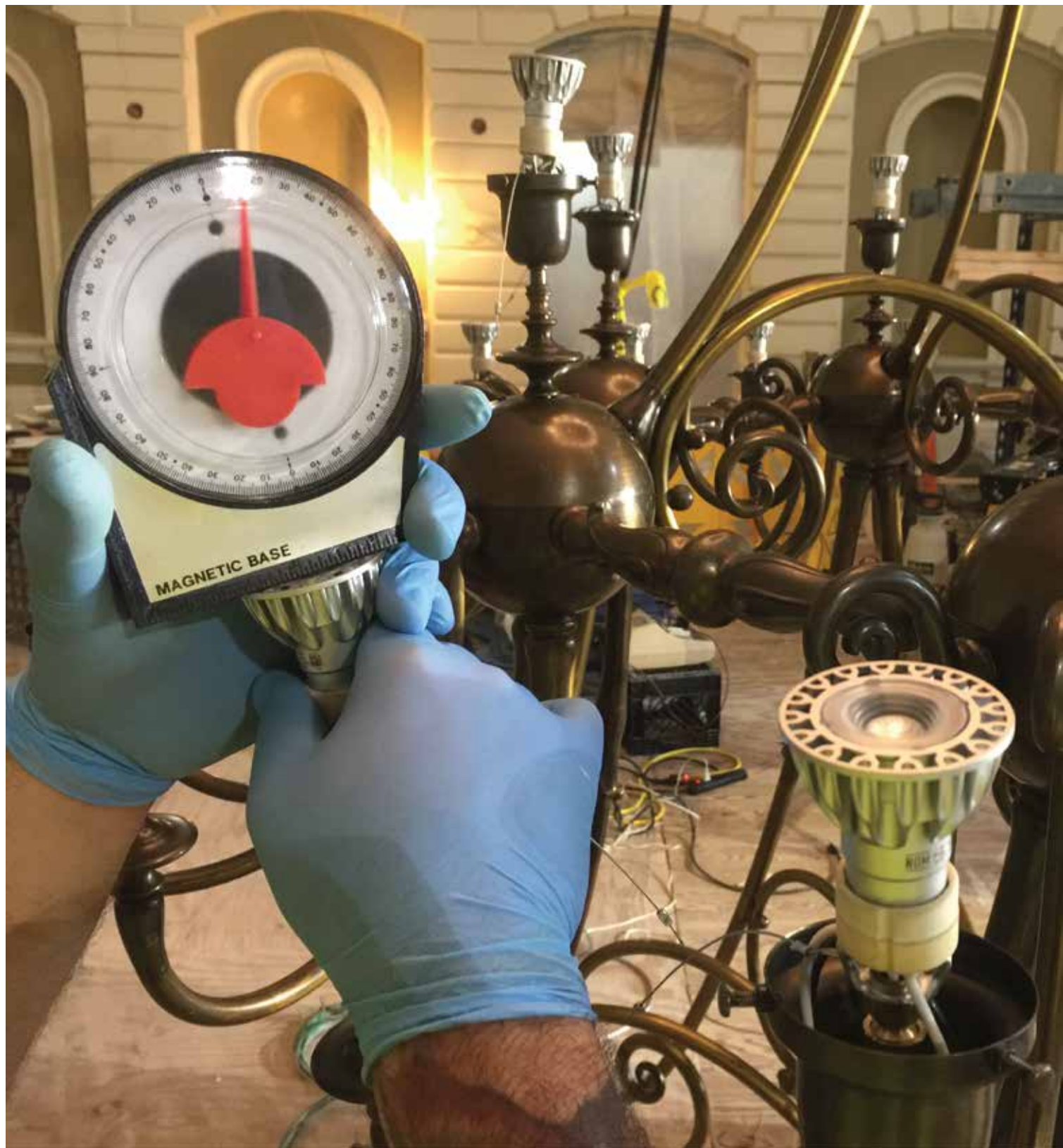
Each surface is cleaned and inspected to determine the optimal surface profile to achieve the desired finish. To alter the surface of an existing luminaire, our processes involve a wide range of capabilities including metal polishing as well as media blasting to remove old finishes and foreign material in preparation for a refinish.

Our artisans can match any color or finish utilizing a variety of processes involving powder coat, spray, hot or cold patina custom recipes and color blending an existing finish.

Grand Light exercises meticulous techniques that are unparalleled in the application of protective coatings including UV resistant lacquer with various customized sheens and tints. Finishes requiring a protective wax are hand buffed with multiple coats of our museum grade clear and tinted waxes.



American Artisans At Work Preserving History



On-Site Positioning of Adjustable Screw-In LED Uplights

Electrical Capabilities

GRAND LIGHT

Lighting & Design Since 1929



Inspection & Documentation



Retrofitting



Wiring



UL Testing

Grand Light's electrical capabilities are often an essential part of the restoration and custom lighting process. Utilizing only UL listed products, Grand Light strives to meet the highest quality of standards in finalizing each lighting fixture; from rewiring, to LED retrofitting, and the conversion of gas powered fixtures to electric.

Using the explicit instructions provided by custom specifications, our technicians transform concepts into finished products incorporating the highest regard for accuracy. Grand Light technicians inspect and document any electrical deficiencies on every lighting fixture prior to the replacement and rewiring of electrical components.



Our Electrical capabilities include:

- **Inspection & Documentation**
- **Wiring Methods**
- **UL Testing**
- **LED Retrofits**
 - **Integrated/Dedicated LED**
 - **Screw-In LED**
 - **CFL to LED**
 - **DMX Controlled RGBW LED**

LED *ADVANTAGE*

Energy efficient retrofitting increases the lighting quality of an area while minimizing total energy consumption. Retrofitting consists of updating the lighting element, wiring, and components, with the intent of improving energy consumption and reducing maintenance costs. When incandescent lamps are upgraded with an LED retrofit, the result is a room that is up to (3) times brighter, savings up to 80% in recurring energy costs, and extended operational lifespan.

Savings can also be achieved through the implementation of energy efficient lamps, photocells, motion detectors, and light lifts. All of these, often in combination, can significantly reduce operating costs and provide long term return on investment.



American Artisans At Work Preserving History



Fabrication of Custom Prismatic Soda Lime Glass Diffuser for Exterior Mounted Lantern

Crystal, Glass, & Acrylic

GRAND LIGHT

Lighting & Design Since 1929



Cleaning



Fabrication



Modification



Surface Treatment



Reproduction



Pinning & Dressing

Grand Light specializes in the cleaning, repair, fitting, custom fabrication, replacement and replication of crystal, glass, and acrylic components of varying types, sizes, and color.

Grand Light offers a wide variety of custom, high quality architectural light diffusers, available in an array of styles, types, and sizes. Our glass and acrylic capabilities offer you the flexibility to customize your own design or replicate existing designs.

These quality diffusers are available by custom order, and exclusively made to your unique specifications.

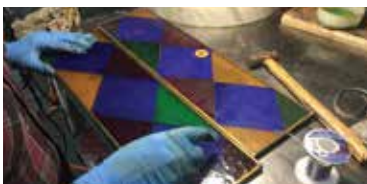
Our artisans also have countless years of experience pinning, stringing, and dressing crystal components of historic luminaires.



Our Crystal, Glass, & Acrylic restoration services include:

- **Ultrasonic & Acid Treatment Cleaning**
- **Casting, Blowing, & Cutting**
- **Etching, Frosting, & Pattern**
- **Staining, Tint, & Color**
- **Slumping**
- **Repair**
- **Pinning & Dressing**
- **Modification**
- **Replacement & Replication**

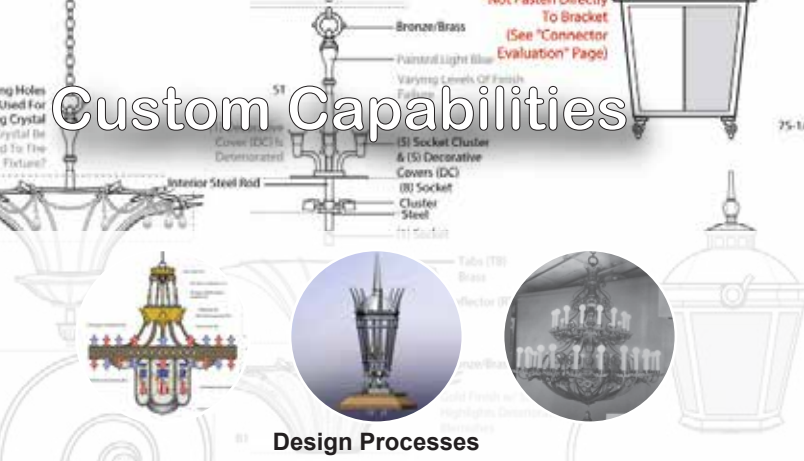
Grand Light artisans specialize in the cleaning of crystal, glass, and acrylic components. Using our advanced ultrasonic cleaning technology combined with our proprietary HSMI Cleaner, we provide a deeper, more efficient clean that enhances each piece.



American Artisans At Work Preserving History



Section 7: Custom Capabilities



Custom Capabilities

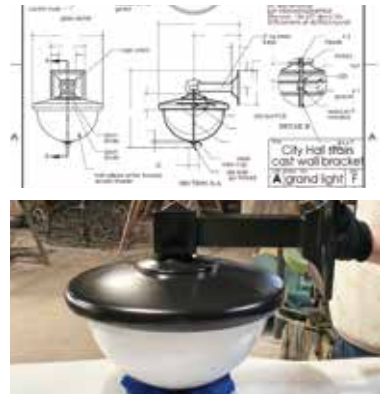
Design Processes



Manufacturing and Fabrication

With decades of restoration experience, Grand Light has developed an extensive collection of historic light fixture designs. Our design database includes 2D drawings, 3D models, photographs, and historic archival materials from past restoration projects.

Referencing existing fixtures, historical photographs, and archival documentation, Grand Light provides made-to-order fabrications of individual components or complete light fixtures.



Grand Light provides a diverse set of custom manufacturing capabilities, enabling us to reproduce just about any type of light fixture design.

Our engineers create precise 2D drawings and 3D models that inform each stage of fabrication. These designs are brought to life in our manufacturing process, resulting in seamless reproductions that capture the historic aesthetic and character of the original piece.

- Our Manufacturing Capabilities Include:**
- Metal Fabrication
 - Glass & Acrylic Fabrication
 - Welding
 - Lost-Wax, Sodium Silicate, & Resin Sand Casting
 - Custom Tooling & Components
 - Metal Spinning, Stamping, & Hydroforming
 - Metal Forming & Forging





Section 8: Project Portfolio

Trinity United Methodist Church

Property History

The Trinity United Methodist Church, located in Springfield, Massachusetts, was designed by Boston firm Allen and Collens in the Gothic Revival style and completed in 1929. The Church takes great pride in its stained glass windows, which are designed by Wilbur Herbert Burnham (1887-1974) of Boston. Designed to be a "Community Cathedral" where everyone in the neighborhood could come to learn, grow, be enriched, and draw closer to God, Trinity is a congregation within the world-wide denomination of The United Methodist Church which has 11 million members around the globe.

Project Description

The restoration project included the on-site removal, restoration, and re-installation of multiple large hand forged and engraved steel chandeliers. The chandeliers were disassembled, ultrasonically and hand cleaned, and walnut/soda blasted to prepare the existing raw steel surface. Each fixture received multiple applications of UV protective metal oil top coating containing binders, rust, and UV inhibitors.

Existing amber theatrical gel on plastic diffusers were replaced with elegant mica diffusers. Reflectors were added into the crown of the outer lamp-holder and the socket relocated 1 1/8" from original location for diffuse down lighting.

All historic chandeliers were packed carefully into Grand Light's trailers and transported back to the church for re-installation. Utilizing scaffolding, ladders, and chain fall hoists, Grand Light's onsite specialists successfully assembled and raised the historic chandeliers all without the removal or damage to the church's pews or floors.

Client

Trinity United Methodist Church

Client Project Managers

Wendy Frels, Administrator, Trinity United Methodist Church

Date Awarded

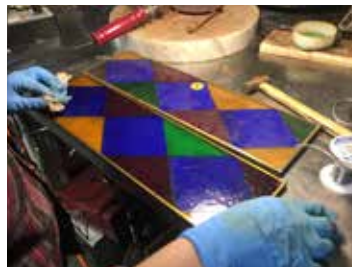
2019

Completion Date

2019

Website

<https://grandlight.com/portfolio/trinity-united-methodist-church/>



Property History

St Peter's Church, located in Plattsburgh, New York, was chartered in 1853 under Reverend Jean-Pierre Bernard to create a Catholic church for French-speaking residents. Today, Saint Peter's is the largest Roman Catholic Church congregation in the Ogdensburg Catholic Diocese.

Project Description

The goal of this project was to take the existing luminaires and design a LED specific core retrofit system enhancing the performance of the fixture while significantly decreasing its energy consumption and maintenance.

After significant product tests, calculations, and mock-ups; a custom LED illuminaire retrofit assembly was designed for installation in the existing fixtures. The system incorporates Nichia Series157 Power LEDs for up lighting and a custom tailor made ENERGY STAR certified down light utilizing the specified CCT.

This custom designed assembly, which was to replace the existing assemblies on both luminaire types, included three up lights, three body lights, and one down light with concentric ring louver. Each assembly was sized appropriately for the size of the housing. The larger pendants were retrofitted with a 42W down light providing 3431 lumens and a 57W core providing 3960 lumens. The smaller pendants were retrofitted with 14W down light providing 1238 lumens and a 35W core providing 2470 lumens. The original lamping assembly for the large fixtures used 1580W, which is reduced to 99W total with the new LED assembly. The smaller fixtures originally used 905W which were reduced to 49W total using the new LED assembly. Not only was energy consumption reduced but the life rating was significantly improved from 1,200 hours to 50,000 hours.

The assembly is designed to drop into the fixture housing, utilizing all original mounting points and chain connections. The original luminaires are not structurally compromised or modified in any way. All assemblies were installed by Grand Light and all lead wires were supplied as specified by the electrical contractor making installation the matter of plug and play.

The down lights were installed with a custom matching color trim, which took the place of existing louvers allowing maximum spread and lumen output.

Client

St. Peter's Church

Client Project Managers

Brian Baker, Baker Liturgical Art, LLC

Date Awarded

2016

Completion Date

2016

Project Webpage

<https://grandlight.com/portfolio/st-peters-church-led-retrofit/>



Greenfield Church

Property History

The Greenfield Church is located in Fairfield, Connecticut, and was established in 1725. Fifty-five families petitioned the General Assembly in Hartford for permission to establish a new church, and on October 14, 1725, the Secretary of State signed a proclamation establishing it. Greenfield Hill residents assembled in a tiny building in 1725 for their first worship as the "Northwest Parish" which had recently been permitted to separate from the First Church of Fairfield. Initially there were 13 men, and one year later 15 women were added. By the end of 1726, there were 70 members. They made provisions for a school one week later, and in 1727 erected their first meeting house.

Project Description

Grand Light was contracted to restore the historic lighting fixtures manufactured by Ward Hendrickson & Co., and featured in a Greenfield Church renovation project. For this project, a variety of historic chandeliers, wall sconces, and pendant luminaires were to be fully refurbished. In addition, a replica of one of the wall sconce fixtures and a number of custom sconces were produced.

First, each historic fixture were disassembled and the original finish removed. All brass components were polished, had a protective wax topcoat applied, and their light blue components repainted and refinished. The glass diffusers were ultrasonically and hand cleaned and replaced where necessary. A new rope had to be wound to each hanging rod assembly due to their fraying and deterioration. Finally, all electrical components were upgraded to modern UL standards for modern safety and functionality.

The replica and custom wall sconce fixtures were made using a combination of stock and custom fabricated components.

Client

Greenfield Hill Congregational Church

Client Project Manager

Wendy Simon

Date Awarded

2023

Completion Date

2024

Project Webpage

<https://grandlight.com/portfolio/greenfield-church/>



Property History

The Jewish Center is an Orthodox synagogue and Modern Orthodox congregation, located in the Upper West Side of Manhattan. The synagogue was founded in 1918 and is located in a tall Neo-Classical building at 131 West 86th Street that contains a large number of social halls, classrooms, auditoriums and offices in addition to the Neo-Classical main sanctuary. The synagogue was the first in America to be built not only to serve as spiritual home to its members, but also as a cultural, social and recreational home.

Project Description

Grand Light was selected to restore the six historic chandeliers and eight wall sconces during a major renovation of the synagogue's Sanctuary. During initial factory evaluations it was discovered that the original steel finish had been covered up by gold paint. These findings were presented to the design team and it was decided the existing gold paint would be removed and the original natural steel finish preserved.

Additionally, all brass components were refinished with an antique brass patina and burnished highlights.

Each chandelier was restored utilizing only UL listed products to ensure only the highest quality of standards. Multiple UL tests were performed on all electrical components and systems to ensure compliance with UL Standards for luminaires.

The fully assembled and restored chandelier with custom antique brass patina and original steel finish was reinstalled in the Sanctuary, for the Jewish Center's patrons to appreciate for decades to come.

Client

The Jewish Center

Client Project Managers

Aaron Strum Executive Director, The Jewish Center

Date Awarded

2019

Completion Date

2019

Website

<https://grandlight.com/portfolio/the-jewish-center/>



Property History

Located in Paterson, New Jersey, the current Cathedral of St. John the Baptist began construction in September of 1865 on sixteen lots of land. The Cathedral was planned by the church's thirteenth pastor, Very Rev. William McNulty and designed by prominent church architect, P. C. Kiely, in a neo-Gothic style. St. John's was built by the volunteer labor of members of the parish and completed in July of 1870. The Cathedral of St. John the Baptist is governed by the Roman Catholic Diocese of Paterson, which oversees 109 parishes, 39 Catholic Schools, 64 Catholic Charities locations, and various ministries in the three counties of Passaic, Morris, and Sussex in northern New Jersey.

Project Description

Grand Light restored twenty-two historic lighting fixtures, including large chandeliers, exterior lighting, wall sconces, stoups, ceiling and pendant lights, which are original to the historic cathedral.

Twelve large chandeliers were restored by cleaning the metal ultrasonically, replacing mismatched non-original components with historic replicas, and multiple applications of museum grade wax. The historic wall sconces, stoups, ceiling and pendant lights were hand cleaned using proprietary cleaning solutions to remove excess corrosion with a protective top coat of wax applied.

Multiple exterior lighting fixture components were repatinated in verdi green. After repatination, a UV resistant lacquer top coat was applied to each fixture. Custom frosted seeded glass panels were cut and installed into the fixtures.

All fixtures wiring were replaced with UL listed components and HIPOT tested in accordance with UL standard 1598.

In addition to the restoration of historic luminaires, Grand Light fabricated custom pendant lighting replicating the style of an existing historic interior fixture.

Client

Roman Catholic Diocese of Paterson

Client Project Managers

Rebeca Ruiz-Ulloa, Architect, R.C. Diocese of Paterson

Date Awarded

2015

Completion Date

2016

Project Webpage

<https://grandlight.com/portfolio/cathedral-of-st-john-the-baptist/>



Property History

Located in Paterson, New Jersey, the current Cathedral of St. John the Baptist began construction in September of 1865. Designed by prominent church architect, P. C. Kiely, in a neo-Gothic style, St. John's was built by the volunteer labor of members of the parish and completed in July of 1870. The Cathedral is governed by the Roman Catholic Diocese of Paterson, which oversees 109 parishes, 39 Catholic Schools, 64 Catholic Charities locations, and various ministries in the Passaic, Morris, and Sussex.

Project Description

Grand Light was selected by the Diocese of Patterson for the replication and manufacturing of new lighting for the cathedral. This project included the design and custom fabrication of pendant fixtures resembling an existing historic fixture and the replication of a missing exterior fixture.

The custom pendant lights were constructed with aluminum and include six custom acrylic panels fitted by Grand Light technicians to each custom pendant. The fabrication of the raw components consisted of cast aluminum Fleur De Lis and rope tassel finials, and each panel was cut from 6061 aluminum plate and the details were cut with our CNC machine. Each component was then welded together, making the fixture sturdy and achieving the same look of the hand forged iron original. Custom loops for the hanging chain were all hand forged giving the top crown a masculine look.

A two-tone finish was applied utilizing Aqua Leaf Pearlescent Metallic on the Fleur De Lis, rope tassel finials, and the top loop. An extended life satin black finish was applied to the body which incorporated multiple applications of primer, top coats, and protective layers of UV resistant lacquer. The fixture was then diffused with a special clean acrylic panel with one side frosted, keeping with the look of the historic fixture used for inspiration.

This project also included the replication of a missing exterior fixture. The original wall mounted exterior frame and bracket featured intricate detailing and a beautiful verdigris patina, all of which were accurately reproduced on the replicated fixture. Grand Light artisans replicated every detail exact, even down to the use of bronze for the base metal. All fixtures were wired with UL listed components and tested in accordance with UL standard 1598.

In addition to these custom fabrications, the project required the restoration of original luminaries ranging from large chandeliers, wall sconces, pendant lights, and exterior lanterns.

Client

Roman Catholic Diocese of Paterson

Client Project Managers

Rebeca Ruiz-Ulloa, Architect, R.C. Diocese of Paterson

Date Awarded

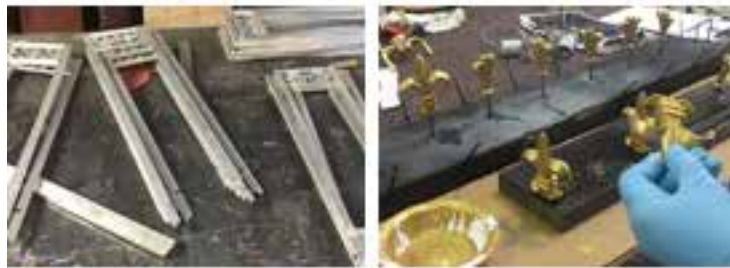
2015

Completion Date

2016

Project Webpage

<https://grandlight.com/portfolio/cathedral-of-st-john-the-baptist-custom/>



Saint Mark's Episcopal Church

Property History

St. Mark's Episcopal Church is a place of worship serving the local community of New Canaan, Connecticut. Built between 1959 and 1961, the church features modern design principles as well as a 117-foot-tall bell tower.

Project Description

Grand Light was commissioned by Saint Mark's Episcopal Church to restore a series of vintage suspension and pendant light fixtures. Our artisans began work by partially disassembling each fixture and hand-cleaning them to preserve the original brass finish. After, a protective layer of museum-grade wax top coat was applied to conserve the material's surface.

Select mechanical modifications were made to accommodate custom electrical configurations. Each light fixture was fully rewired, having their dated components replaced to meet modern standards. The suspension light fixtures were retrofitted with adjustable custom LED tape light assemblies. Each pendant light fixture was retrofitted with a custom LED array incorporating linear light strips, an LED downlight, and a controller for flexible lighting. Lastly, new frosted glass diffusers were added to the pendants to cap off the restoration process.

Now back installed in their original home, these restored and retrofitted luminaires complement the aesthetic of Saint Mark's while providing versatile lighting suited to a range of uses.

Client

Saint Mark's Episcopal Church

Client Project Manager

Jill Sautkulis

Date Awarded

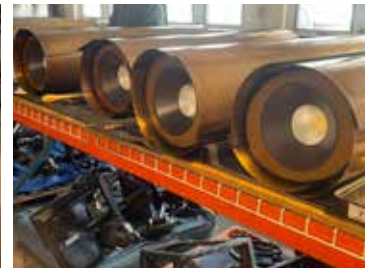
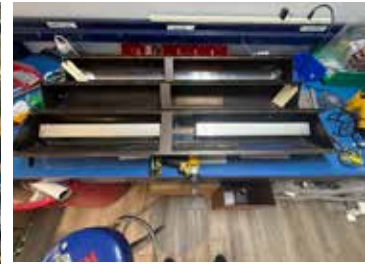
2025

Completion Date

2026

Project Webpage

<https://grandlight.com/portfolio/st-marks-episcopal-church/>



Property History

The Cathedral of St. Joseph was first built in 1892, after 20 years of planning and construction overseen by three Bishops. The original architect was Patrick C. Keely, and the design was well received by the parishioners of Hartford and surrounding municipalities. On December 31st, 1956, a fire of unknown origin burned the church to the ground and destroyed the entirety of the original structure. Work was done to rebuild the church and it was re-opened in 1962. It features twenty-six windows, designed and crafted in Paris by Jean Barillet, bells built in Holland, and a massive organ consisting of 8000 pipes. The size of the church requires tremendous lighting capability, and the cost of operating the 216 lights that are hung around 100 feet in the air has grown over the years to be a large part of the annual budget.

Project Description

The Cathedral of St. Joseph, the Archdiocese of Hartford, selected Grand Light to retrofit their current lighting system for improved efficiency and lower operating cost. We decided to go with a QL Induction Lighting System that would enable a ultra long life per unit, consistent color, and the ability to dim as needed.

Grand Light artisans crafted a pre-production model of the system and demonstrated it, and upon approval by the Archdiocese, began production of the parts that would be used to retrofit the 216 light kits they have installed.

A template was measured and created for drilling the holes into each hat and additional tables were set up to help with production flow. While the hats were being drilled, the reflector was modified to fit the custom built heatsink and attached to the heatsink.

After the holes were drilled, long screws and spacers were fitted into the hats to fit the generator casing onto. Wiring was run for the unit in preparation of the arrival of the generators while verifying each unit's status through a quality assurance process.

The existing 232 historic luminaires were retrofitted with a 165W induction lamp, positioned properly in the lens and reflector assembly, in order to provide a lighting quality more similar to the original system. Due to the design of the retrofit kit housing, the average light level exceeds 17.0 fc while only using 1.9 w/sf of power.

Client

Archdiocese of Hartford

Client Project Managers

David Giarrusso, Project Manager, Trane Commercial Systems

Date Awarded

2013

Completion Date

2013

Project Webpage

<https://grandlight.com/portfolio/st-josephs-cathedral/>



Property History

The Orford Congregational Church, located in Orford, New Hampshire, is of architectural and historical significance to the town and the northeastern United States. Built in 1854, the church was designed by Moses Gerrish Wood, whose original construction drawings and architectural sketches are signed, dated and hanging in the church today, more than 150 years later.

The church is the only wooden gothic structure in New Hampshire. The building has an ornate, arched window over the main entrance, and arched side windows. Around the clock tower, decorated with a balustrade, lies an ornate frieze, and a recessed cornice with decorative brackets.

Project Description

In the summer of 2006, the church ceiling collapsed, and the chandelier fell to the floor and was crushed. Entombed in a closed-off section of the bell tower, lay a magnificent 67-inch dodecagonal gothic-style chandelier. This original gas-mirrored reflector chandelier was made circa 1854-1870, and led the restoration search committee chairman Carl Schmidt and Reverend Wilson to Grand Light's restoration experts.

Because the chandelier was found inside the bell tower after a ceiling collapse, the people at Orford Congregational Church requested to have construction drawings done in order to visualize the completed project. After conducting historical research, Grand Light prepared these conceptual sketches for the Church in the initial stages of the custom restoration project.

Restoration of the chandelier included reinforcement of the existing historical frame, custom made reproductions of the decorative crown, custom fabrication of corrugated mirror glass panels, and the addition of a custom 12-light round center pendant with decorative stem. A two tone black and gold finish was applied making this piece the focal point of the church.

Client

United Congregational Church of Orford

Client Project Managers

Byron Haynes, AIA, Principal, Haynes & Garthwaite Architects

Date Awarded

2008

Completion Date

2008

Project Webpage

<https://grandlight.com/portfolio/orford-congregational-church/>



Lesley University Chapel

Property History

Lesley University is a private university in Cambridge, Massachusetts, serving over 1,800 total students. The school was founded in 1909 as an all-women's college, originally for the purpose of educating teachers. Since 2005, the school has been a co-ed institution dedicated to their core values of inquiry, diversity, community, and citizenship.

Project Description

Grand Light restored two different types of hanging pendant lights, a total of twelve fixtures. Each luminaire was partially disassembled and cleaned to conserve their existing antique silver finishes, and had their patina repaired to blend the interior with the exterior finish. Museum grade wax top coat was applied to the fixtures to preserve them into the future. Each fixture had their electrical components replaced and rewired with a modified light cluster to accommodate LED screw-in lamps to UL standards, and the existing socket posts were modified to accommodate a new LED array. Each existing cream glass diffuser was ultrasonically cleaned.

Client

Centerbrook Architects

Client Project Manager

Sue Wyeth

Date Awarded

2025

Completion Date

2025

Project Webpage

<https://grandlight.com/portfolio/lesley-university-chapel/>



American Artisans At Work Preserving History

Shrine of the Miraculous Medal

Property History

The restoration team at Grand Light was given the task of fully restoring and replicating a large outdoor lantern and post from the Shrine of the Miraculous Medal in Philadelphia, PA.

The building, also known as the Chapel of the Immaculate Conception or Mary's Central Shrine, was built in Philadelphia's historic section of Germantown in 1875. Since 1927, the chapel's west transept has housed Mary's Central Shrine, a special place of worship to honor Mary Immaculate and the Miraculous Medal.

Project Description

The lantern was located on a large column located in the front of the chapel. Upon arriving at Grand Light's restoration facilities, the fixture was fully inspected, photographed, and cataloged. Certain components of the fixture had greatly deteriorated from decades of exposure to the weather.

The fixture was media blasted to remove any undesirable residual contaminants on the surface, and to smooth the surface profile. New copper tabs were added to hold replacement glass panels. The fixture was then rewired to hold 42 watt CFL bulb, and given a matte black textured finish.

In addition to the restoration of one original, Grand Light fabricated an exact replica that was installed opposite the original. The replica was hand forged and no intricate detailing from the original was omitted.

All fixtures were wired with UL listed components and HIPOT tested in accordance with UL standard 1598.

Client

Central Association of the Miraculous Medal

Client Project Managers

Tracy Rost, MMI Electrical Contractors, Inc.

Date Awarded

2009

Completion Date

2009

Project Webpage

<https://grandlight.com/portfolio/shrine-of-the-miraculous-medal/>



Property History

The current Unitarian Church of All Souls, the congregation's fourth sanctuary and located on Lexington Avenue on the East Side of the borough of Manhattan in New York City, was designed by Herbert Upjohn and built in 1932 in a Neo-colonial style with a Regency-influenced brick base.

Working in conjunction with EW Howell Construction Group, Grand Light's on-site team carefully removed and transported all fixtures to Grand Light's Lighting Restoration Factory located in Seymour, Connecticut.

Project Description

The Grand Light Team worked tirelessly to restore the nickel and brass fixtures. The chandeliers were disassembled, media walnut blasted, ultrasonically and hand cleaned. Multiple application coats of UV resistant protective coating of clear metal wax was applied.

Grand Light artisans sorted, counted, categorized, and cleaned over 1,000 crystal components. Of these components, 14% of the total amount were missing or damaged beyond repair and required custom replacement crystal. The partially assembled, restored chandelier was dressed with crystal and glass shades on-site by Grand Light specialists.

Client

Unitarian Church Of All Souls

Client Project Managers

Rich Serrano, E.W. Howell

Date Awarded

2019

Completion Date

2019

Website

<https://grandlight.com/portfolio/unitarian-church-of-all-souls/>



Property History

Situated on one of the highest points in Monmouth County, Tower Hill Church was formed in 1852 when 80 people petitioned the Presbytery of New Brunswick for a new church in Red Bank. The existing church building cornerstone was laid in September of 1910 and the sanctuary dedicated in April 1911 to accommodate a growing congregation.

Project Description

Grand Light fabricated four hand-crafted custom chandeliers for the Tower Hill First Presbyterian Church in Red Bank, New Jersey. Three of the chandeliers were fifteen-light fixtures measuring 30" W x 70" H. The fourth chandelier was a bit smaller measuring 36" W x 36" H and featuring ten lights. All four chandeliers were given an antique brass finish.

Concept drawings were provided by the client and served as the blueprint for our production process. The drawings addressed the smallest of details, allowing our clients our artisans visualize the fixtures before the fabrication process began.

Each chandelier was hand-made using brass components such as a decorative finial which sat at the top of each of the four chandeliers and multiple decorative rosettes which lined the frames. Each component was hand finished giving the fixtures and antique brass look. Custom slumped Lexan clear panels were fabricated and installed in each fixture.

Client

Tower Hill First Presbyterian Church at Red Bank

Client Project Managers

Rob Wallman, Tower Hill Church Property Manager

Date Awarded

2007

Completion Date

2007

Project Webpages

<https://grandlight.com/portfolio/tower-hill-first-presbyterian-church/>



Property History

The Divinity School at Yale University was built in 1932 by the New York based architecture firm of Delano and Aldrich. The campus includes the Marquand Chapel, the Day Missions Library, the Trowbridge Reference Library, a refectory, common room, dormitories, common room and class rooms. The buildings were constructed with handmade water stuck brick, and designed in a sophisticated Georgian Colonial style, which Delano and Aldrich were renowned for.

Project Description

When the school needed several massive twelve-arm iron and brass chandeliers restored, a careful touch and appreciation for historical accuracy made Grand Light's restoration experts the most suitable team for the job.

The team photographed and cataloged the components of the chandeliers in order to accurately recreate them.

Grand Light's craftsmen reproduced the missing elements of glass to match the chandelier's originals. The glass was also stenciled, sandblasted and custom made for each of the chandeliers.

There was extensive design work done to carefully recreate the Greek symbols, which decorated the iron and brass frame. The existing frame components were also repaired and replaced to restore the structural integrity of the pieces.

All fixtures were rewired with UL listed components and HIPOT tested in accordance with UL standard 1598.

Client

Yale University

Client Project Managers

Jeremy Powers, Project Planner, Office of Facilities, Yale University

Date Awarded

2003

Completion Date

2003

Project Webpage

<https://grandlight.com/portfolio/yale-university-divinity-school/>

Awards

AIA Connecticut Design Award 2003

Annual Religious Art and Architecture Design Awards

2003 Restoration Honor Award



Property History

The Divinity School at Yale University was built in 1932 by the New York based architecture firm of Delano and Aldrich. The campus includes the Marquand Chapel, the Day Missions Library, the Trowbridge Reference Library, a refectory, common room, dormitories, common room and classrooms. The buildings were constructed with handmade water stuck brick, and designed in a sophisticated Georgian Colonial style, which Delano and Aldrich were renowned for.

Project Description

Grand Light designed and manufactured several custom lighting fixtures for Yale Divinity School. This project included the replication of a large existing historic iron and brass chandeliers, various multi-tiered crystal chandeliers, a massive brass and crystal chandelier, and numerous custom handcrafted pendant lights.

The historic chandeliers being replicated were previously restored by Grand Light. Extreme attention was taken to replicate the original fixture's intricate detailing to accurately capture the historical significance of the chandelier and its components. the replicated lounge chandelier was then assembled and received a hand applied patina to the brass components and the steel components were painted matte black. All components then received a coat of protective lacquer.

Massive crystal chandeliers in the refractory were partially assembled, wired, and tested at Grand Light's custom lighting factory before being safely transported to the school's lounge. Once they were suspended from their lifts, Grand Light artisans dressed the crystal components on the chandeliers in the refractory.

A one-of-a-kind, beautifully handcrafted, brass & crystal chandelier was custom designed and fabricated specifically for Divinity School's rotunda, and beautifully compliments the elegant pillars and spiral staircase aesthetics. This fixture was carefully dressed by Grand Light artisans in the rotunda.

The fabrication of the custom library pendants consisted of individually cast brass components. Each component was then welded together to obtain the large circumference required to accommodate the custom made flashed opal glass diffuser. A custom cluster configuration allowed 5000 lumens of light output, and accommodating a 277 volt LED A21 screw in lamp.

Client

Yale University

Client Project Managers

Jeromy Powers, Project Planner, Office of Facilities, Yale University

Date Awarded

2017

Completion Date

2017

Project Webpage

<https://grandlight.com/portfolio/yale-university-divinity-school-custom/>



Property History

The Dwight Hall Chapel at Yale University has seen many changes since its inception in 1846, but has remained an unfaltering place for students to connect with the community for both spiritual and social causes.

The Chapel was built in 1842, and takes its name from Timothy Dwight, president of the University from 1795 through 1817. It was designed by architect Henry Austin, who was born in Connecticut and practiced architecture for over fifty years, based out of New Haven. Austin worked on both public and private buildings, and his gothic revival architecture style made him one of the most popular architects of the time. His valued contributions to the city are still noted today. The Grove Street Cemetery Gates, New Haven City Hall, and numerous buildings for Yale are among Austin's celebrated efforts. Located in an area of New Haven renowned for essentially being an outdoor museum of architecture, and with the historical precedent set, it was imperative that any restorations on the campus be handled with care and attention to detail, no matter how small the task.

Project Description

Grand Light was given the task to refurbish six antique iron pendants and seven wall sconces that had been weathered with time and needed complete restoration.

The team began by restoring the damaged leaded glass panels inside of the iron frames. They carefully reproduced the panels to emanate light in a warm, even glow – maintaining the ambiance created by the medieval style of the buildings' interior.

Grand Light then went on to carefully strip the iron exteriors and refinished pendants with a beautiful satin black finish, an application of a clear, non-yellowing, UV resistant lacquer, and internal rewiring to adhere with UL 1598 specifications.

Client

Yale University

Client Project Managers

Peter Gisolfi Associates

Date Awarded

2007

Completion Date

2007

Project Webpage

<https://grandlight.com/portfolio/timothy-dwight-hall/>





Section 9: Historic Restoration Guidelines

Historic Lighting Restoration Guidelines

PART 1 – GENERAL

The purpose of this document is to specify the scope of work required for the restoration of existing historic lighting fixtures and the replication of others.

1.1 RELATED DOCUMENTS

A. The provisions of the Contract Documents, Drawings & Instructions to Bidders, General Conditions, Supplementary Conditions, Alternates and Addendas apply to this Specification.

1.2 DESCRIPTION OF WORK

A. Provide lighting fixtures as shown on the Drawings and identified as “historic lighting” and herein specified or scheduled.

B. The work to be performed on this project shall include the restoration of existing historic fixtures and the replication of luminaires from both existing fixtures and from photographs, drawings, and historic information available, where actual luminaires do not exist.

C. For new replications of existing and non-existing lighting, work shall include complete studies of photographs, drawings, and available historic information allowing concise preparation and design of engineering drawings with complete bills of materials for the fabrication of each fixture. All ornamental design, structural elements and component parts shall be fully detailed in addition to all anchoring support, wireway, and joinery conditions.

D. Completed fixtures shall meet all applicable codes regarding materials and methods. All NEC guidelines and UL procedures shall be followed.

E. Electrical contractor shall be responsible for verifying existing conditions and coordinate the mounting hardware with Grand Light. It is the responsibility of the fixture manufacturer to ensure that all structural, mechanical, electrical, design, construction and fabrication of fixtures meet all applicable codes as related to public safety concerns. It is the responsibility of the electrical contractor to ensure that fixtures are safely installed with careful attention to fixture weight and mounting, lift and lowering devices and safety/seismic cables, where applicable.

1.3 QUALITY ASSURANCE

A. New and restored historic light fixtures and assembled components shall be wired and tested in accordance with UL standards.

B. Work on historic lighting shall be performed by a qualified Restoration and Replication Manufacturer (Grand Light) with no less than ten years successful experience in comparable restoration and replication projects and employing personnel skilled in the restoration and replication processes and operations indicated. Upon Request, Grand Light shall provide proof of qualification.

C. Qualification Data:

Grand Light shall submit qualification data as listed below, in their response to the request for bids, along with their price quotation. Data shall demonstrate Grand Light's capabilities, experience and financial stability. It shall include a history of the firm, number of years the firm has restored and replicated historic lighting. Qualification data should include five projects within the last five years of similar scope and magnitude, photo documentation of completed work and project references.

1.4 SUBMITTALS

A. Grand Light shall refer to contract bid documents regarding shop drawings, product data, and samples, submission procedures.

B. For custom replicated luminaires, submit shop drawings indicating all details of mechanical and electrical construction (including circuitry, lamping, ballasts, transformers, wireways, lampholders, etc.), diffuser assembly, mounting accessories and hardware, finishes and list of materials.

C. For existing luminaires; Provide shop drawings for structural modifications only indicating the project name, manufacturer, all materials, finishes, lamping, voltage, ballast information and mounting details.

D. Finish Samples: Samples of shades, glass diffuser material, metals and metal finish samples shall be submitted for approval prior to the notice to proceed with mock-ups.

1.5 MANUFACTURERS MOCK-UPS

A. Grand Light shall provide, access to the manufacturing plant for the project architect/engineer and owner project manager to review work in progress. The project architect/engineer and owner will coordinate these trips for timely review of work in progress.

1.6 PRODUCT HANDLING – REMOVAL THROUGH INSTALLATION

A. All costs for removing historic fixtures from existing locations, disassembly, packing, crating, insurance and freight for luminaires from the job site to Grand Light shall be the responsibility of the Electrical Contractor. The Electrical Contractor shall coordinate the removal and re-installation with other project contractors to insure convenience for all concerned. Packaging, crating, insurance and shipping of restored and replicated fixtures to the Electrical Contractor for re-installation shall be the responsibility of Grand Light. The Electrical contractor shall be responsible for receiving, assembly and installation of both restored and replicated fixtures.

Historic Lighting Restoration Guidelines

B. The Electrical contractor shall be responsible for final lamping adjustment, luminaire adjustment and cleaning. Grand Light shall be on-site during fixture removal to assist with the photo-documentation of the existing condition, location, tagging and supervising the proper handling, disassembly, packing and crating of the historic lighting fixtures. When fixtures are re-installed, Grand Light shall again be on-site to supervise the proper handling, uncrating and assembly of the fixtures prior to their being installed by the Electrical Contractor.

1.7 GUARANTEE

A. Grand Light shall furnish to the owner a written guarantee for luminaries against all defects in materials and workmanship, including without limitation, against failure to function, for two (2) years from date of acceptance.

PRODUCTS Lamps, ballasts, transformers, lampholders, as specified.

1.8 MATERIALS

General:

Utilize materials to match the original or with matching equivalent physical characteristics of strength, finish, resistance to corrosion, etc. Utilize gauges and thickness required to provide the appropriate structural performance and durability.

The restoration of existing luminaires shall consist of, electrical rewiring, new glass globes, cleaning and refinishing. Physical restoration shall consist of the repair or replacement of any parts that are missing, broken, or damaged. Replacement shall match the original parts in strength and appearance, including degree of detail.

Electrical restoration shall consist of the replacement of all electrical components and wiring. Luminaires shall be wired with UL listed components and tested in accordance with UL standards.

1.9 STRUCTURAL MEMBERS

A. All visible structural members shall be fabricated in the material used in the original or, in the case of luminaires based on photographs or drawings of the original, the material that would have been used in a quality luminaire at the time. Thickness and gauges shall be as required for structural integrity.

B. All castings shall be free of pits, scratches, blemishes, parting lines, burrs and internal flaws.

C. Assemblies of structural elements joined by soldering, brazing, or welding shall exhibit no external discoloration at the seams. External fasteners shall be finished to match the parts in which they are installed.

2.0 ORNAMENTAL MEMBERS

- A. Applied ornamental pieces (cast, spun, stamped or hand wrought) shall be of the material to which they were attached unless otherwise indicated by the originals or in the specifications.
- B. Applied ornamentation shall be attached using fasteners in discreet locations. Visible fasteners shall be finished to match the material into which they are set.

2.1 NEW FINISHES (New Luminaires)

- A. It shall be the responsibility of Grand Light to research and propose the finish or combination of finishes to be employed on the luminaires. Finish shall be uniform, free of runs, specs, smudges, “checking”, “rainbowing” or milkiess caused by humid environments. Manufacturer shall provide samples for approval of all finishes and materials to be used with the Shop Drawing Submittal.

2.1A CLEANING FINISHES (EXISTING LUMINAIRES)

- A. Existing luminaires shall be cleaned only and the existing patina appearance shall be retained were specified.
- B. Restoration/Conservation includes cleaning, repair, patination, painting, and application of protective coatings. Multiple coats of museum grade waxes or lacquer as required.

2.2 DIFFUSERS - GLASS

- A. Match the original diffuser-glass as shown in historic photos. It shall be the responsibility of Grand Light to research and propose the diffuser. Grand Light shall provide samples for approval of all finishes and materials to be used with the Shop Drawing Submittal.
- B. Match the existing in all aspects: size, thickness, material, color, surface texture design, etc. Shelf Stock: furnish additional diffusers for each fixture type, as specified.
- C. Replace the diffusers-glass on the existing luminaires to match the diffusers on the new luminaires.

2.3 REPLICATION LUMINAIRES

- A. The contract documents define the required visual appearance and performance characteristics, which must be achieved in the existing replications. Variances will be considered only, if in the opinion of the architects, their consultants, and the project historians, they will achieve the desired appearance, quality of construction and performance.

B. Lamp holders shall hold lamps securely against vibrations and maintenance handling. For enclosed incandescent standard base lampholders, provide glazed porcelain, nickel-plated brass screw shell type lampholders. Other lampholders shall match the original or as specified. Decorative sleeves over lampholders should match the original.

C. Wiring: Shall meet the applicable U.L. Standard and all local codes and the National Electrical Code. Exposed wire shall be of similar color to existing finish and be installed in such a manner as to be as invisible as possible. Wires through the chain shall be in such a manner that chains hang plumb and straight without crimping the wire at any point. Grand Light shall coordinate with Electrical Contractor for any special wiring or attachment considerations (plugs, quick disconnects, extra length, sleeving, etc.)

D. Lamps: Shall be provided by others.

2.4 FABRICATION

A. Luminaires shall be free of light leaks and shall be designed to provide sufficient ventilation of lamps and ballasts, including vent holes where required.

B. Lamps shall be oriented to provide the best light distribution, free of shadows or “hot” spots.

C. Sheet metal work shall be free from tool marks and dents and shall have accurate angles bent as sharp as compatible with the gauges of the required metal. Intersections and joints shall be formed true and of adequate strength and structural rigidity to prevent any distortion after assembly. Sheet metal shall be free of light leaks. Edges shall be finished so there are no sharp edges exposed. Sheet metal work shall be properly fabricated and supported so that planes will not deform (i.e. become concave or convex, due to normal expected ambient and operating conditions).

Need More Information, Browse Our Additional Resources At GrandLight.com

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Packaging Instructions - Form 10404

Glass Packaging Recommendations

- 1) All glass should be removed from the fixtures and wrapped in 1/2" thick bubble wrap... Secure the bubble wrap with clear carbon sealing tape. "Do Not Allow Tape To Come In Contact With Glass"
- 2) Place bubble wrapped glass in a box with bottom lined bubble wrap and fill box with packing peanuts. Allow 3" of packing on all sides, top and bottom of the box... Secure with clear carbon sealing tape and label with contents (1 x qty (1) glass Type A)
- 3) Cracked Glass...Place painters tape on both sides of any cracked glass

Broken Glass...Place all broken glass on a flat cardboard...Secure with painters tape...Bubble wrap and tape with clear carbon sealing tape.

Fixture Packaging Recommendations

- 1) All fixtures and loose fixture components (chain, canopy etc.) should be wrapped with 1/2" bubble wrap and secured with clear carbon sealing tape. "Do Not Allow Tape To Come In Contact With Metal Finishes"
- 2) Place bubble wrapped fixture or fixtures (depending on size) in a box with bottom lined bubble wrap and fill box with packing peanuts. Allow 3" of packing on all sides, top and bottom of the box. Secure with clear carbon sealing tape and label with contents (1 x qty (1) fixture Type A)

General Notes:

- Do not mix fixture frames and glass within the same box. Do not use duct or electrical tape.
- Do not allow loose components to rattle inside the bubble wrapped fixture.
- Select boxes to fit and support the contents size and weight.
- Separate multiple fixtures or glass within a box with cardboard separators.

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Maintenance Instructions - Form 10403

Maintenance Overview

Lightly clean the surface every six months or as needed with a non-abrasive soap like Ivory Soap. Dry completely and reapply a new layer of wax with a brush when dry. If the wax is maintained regularly there is a good chance the clear sealant will last a long time.

Cleaning and Care of Lighting Fixtures

Required Materials:

- (2) terrycloth or similarly durable soft cloth
- Non-abrasive soap like Ivory Soap (liquid)
- Scrubby Nonwoven Wipe
- Vacuum (optional or with hose attachment)

Directions:

- Using the vacuum, gently remove any surface dust from the fixture. Keep the edge of the vacuum or hose attachment from touching the fixture as this may damage the finish. Removing the dust prevents it from becoming an abrasive that will damage the fixture when wiping it down.
- Spray a small amount of the soap solution onto the terrycloth and gently wipe down the surface of the fixture. Remove any discoloration or fingerprints. Wipe dry with second terrycloth.
- Apply the wax to a warm or cold surface. Stopping with a brush may be the preferred method of application or as to not create streaking on the surface. Then apply a smooth line of wax to the surface. Try not to let the clear wax fill up in the recessed areas as it may turn white. Use a soft brush to remove the excess wax from these areas. Use a cloth to remove any ridges or lumps during the set up time. When ready, buff with a terry cloth type rag. When using the correct wax, buffing will or the build up in the recessed areas is decorative. If you are waxing on a cold surface with the clear wax buff after one hour. Let the colored wax sit longer, up to an hour of two and then buff. The colored wax takes much longer to dry if you are applying the wax to a hot surface. Let the surface cool down, then buff. Do not apply the wax to extremely hot surfaces; let the surface cool down somewhat. A good rule of thumb is when to buff is if it was once off, when you rub your finger over the surface, it is too early to buff. Do not buff longer than three times to buff in most any circumstance as the wax layer dries very hard. To apply multiple layers of wax repeat the application and buffing process for each layer for about a few hours before applying the next.

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Cleaning Crystal - Form 10405

Overview

The most important factors that contribute to the frequency of cleaning your crystal chandelier are the location, type of crystals, and the shape of the crystals. A crystal chandelier hanging in a foyer (roomed with Everwood) Stress crystals, which are finished with an optical coating that repels dust and other airborne particles, is both easier to clean and would be done less frequently, while a crystal chandelier trimmed with hand cut crystal pendants in the same location will show more dust and require frequent cleanings.

To determine if your crystals need to be cleaned, look at your light fixture and if the crystals seem to be dull or have a layer of dust coating on them, refer to the cleaning techniques below.

Note: Prior to using any crystal cleaning techniques listed below, unplug and turn off the power source to your crystal light fixture and allow all bulbs to cool.

Cleaning Techniques

Grand Light has been the leading source of crystal light fixtures for over 70 years, and in that time, we have perfected the art of cleaning and maintaining crystals. Here's how we recommend you do it.

- Likes Glass Method:** This technique is best used when particle and dust coating is minimal and does not require the crystals to be removed.

Start off by preparing a solution consisting of one part isopropyl alcohol to three parts distilled water in a spray bottle. Stand while wearing latex gloves, spray the solution onto a soft-free cleaning cloth. Do not spray the crystals directly to reduce the chance of cracking. To ensure proper cleaning, each crystal should be done one at a time.

- Crystal Removal Method:** This technique is best used to remove the dust that has been building up over the years and requires a bit more effort to clean away.

Begin by placing a soft towel or blanket down on a level, safe location. Next, remove all trim and finish pieces that will prevent you from removing the crystals. Once this is completed, remove the crystals and place them on the towel or blanket. Upon removal of the crystal, hand wash them in mild dish soap and lukewarm water. Rinse the crystals in warm water and allow them to dry. Remember to wear gloves when placing them back on your crystal chandelier or any other crystal light fixture to reduce fingerprints and other grime.

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Packaging Instructions

Maintenance Instructions

Crystal Cleaning Instructions

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Initial Restoration Checklist

Project _____ SOR _____ Fixture Type _____ QTY _____

Description ☐ Indoor ☐ Outdoor ☐ Sconce ☐ Pendant
☐ Chandelier ☐ Lantern ☐ Post Top ☐

Construction ☐ Iron ☐ Brass ☐ Copper ☐ Bronze
☐ Glass Panels ☐ Glass Bowl ☐ Crystal ☐

Existing Lamp #Sockets _____ Wattage _____ Voltage _____
☐ Edison ☐ Mogul ☐ Candleabra ☐ CFL ☐ HID

Existing Finish Color _____
☐ Polite ☐ Paint ☐ Powder Coat ☐ Polished ☐

Condition ☐ Poor ☐ Fair ☐ Good ☐ Excellent

Finish ☐ ☐ ☐ ☐ ☐ ☐
Mechanical ☐ ☐ ☐ ☐ ☐ ☐
Wiring ☐ ☐ ☐ ☐ ☐ ☐
Glass ☐ ☐ ☐ ☐ ☐ ☐
Overall ☐ ☐ ☐ ☐ ☐ ☐

Finish Comments _____

Mechanical Comments _____

Wiring Comments _____

Glass Comments _____

General Comments _____

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Initial Restoration Checklist

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New Grand Light LLC (Grand Light) Limited Warranty - Form 10402

Grand Light warrants all its Products (fixture, replication, and restoration) to be free from defects in material and workmanship, subject to certain conditions and exclusions, for the following time periods from the date the Product was shipped to the original end user purchaser:

Indoor Lighting Fixtures	
Electrical Wiring and Sockets	3 Years
Finish	3 Years
Mechanical	2 Years

Outdoor Lighting Fixtures	
Electrical Wiring and Sockets	2 Years
Finish	2 Years
Mechanical	2 Years

OEM Components: Incandescent, Fluorescent, HID and LED components furnished by Grand Light for incorporation into Grand Light products shall be subject to the manufacturer's warranty (copies of which will be furnished upon request) or customary practice, the lesser or replacement of goods that may prove defective in material or workmanship. The foregoing shall constitute the exclusive remedy of the buyer and the sole obligation of Grand Light. Assistance with warranty claims for any such component may be obtained from a customer service representative.

Grand Light will, at its election, repair, replace or make appropriate adjustment where Grand Light inspection discloses any such defects occurring in normal usage within the applicable time period above, subject to the following conditions and exclusions.

The following costs, expenses and damages are not covered by the provisions of this limited warranty: (i) labor costs including, but not limited to, such costs as the removal and reinstallation of Product; (ii) shipping and freight expenses required to return Product to Grand Light.

All warranties only apply to the original end user purchaser and original installation of Products. This warranty is not transferable.

The provisions of this warranty do not apply to Products: (i) used for purposes for which they are not designed or intended; (ii) which have been subjected to alteration, abuse, misuse, negligence, accident; (iii) which have been improperly stored, installed, maintained or operated; (iv) which have been used in violation of written instructions provided by Grand Light; (v) which have been subjected to improper temperature, humidity or other environmental conditions; or (vi) which, based on Grand Light's examination, do not disclose to Grand Light's satisfaction non-conformance to the warranty.

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Limited Warranty



Section 10: The **GRAND LIGHT** Difference



In-Factory Staging of a Restored Crystal Basket Fixture

Why Choose Grand Light

- Long Standing History of Successful, Award Winning Projects
- Dedicated, Full-Time Project Management & Engineering Team
- Artisans and Specialists with Decades of Experience
- Extensive Background in Restoration, Manufacturing, and Design
- Understanding of Large and Small Projects
- Exceptional Client Communication and Customer Service
- Committed to Safety Without Compromise

The Grand Light Difference extends beyond the restoration and manufacturing process. Our word is our commitment, and we strive to earn your trust. While challenges are inevitable, we will never waiver from a commitment we make and work hard to exceed your expectations.

Repeat business from satisfied clients is critical to our success. Our goal is to ensure our clients receive more value than expected in Quality Assurance, Cost, Scheduling, Performance, Communication, and Safety. We have never failed to complete a project on-time and commit ourselves to delivering the highest quality products and service possible.

Thank you for reviewing our team's qualifications, please do not hesitate to contact us with questions or for additional information needed for your assessment of our company.

Regards,



Steve Stockman
Principal



American Artisans At Work Preserving History