

# ELEEK

## INCORPORATED

LIGHTING RESTORATION & RETROFITTING  
HISTORICAL REPLICATION



LIGHTING RESTORATION AND HISTORICAL REPLICATION



Restoration & Retrofitting

## lighting restoration, historic replication & retrofitting

Part of Eleek's mission is to change the way people think about what they buy. We believe that using what you already have is often a more sustainable choice than purchasing something new, no matter how "green" that new product is. Toward that end, we are proud to offer complete restoration and retrofitting services for luminaires, going far beyond just cleaning and rewiring. Our rare Old World skill set and mastery of modern energy-saving lamping technologies makes Eleek uniquely qualified to restore and retrofit lighting of historic value as well as modern luminaires. In addition to restoration, we can also replicate any fixture from a whole or partial model, or even from photographs or drawings.

### Our Capabilities and Experience

- Conducting research as needed to assure historic accuracy of restoration (or replication)
- Disassembling and cleaning all parts
- Stripping paint and old finishes from metal pieces
- Duplicating missing components
- Refinishing metal parts
- Replacing missing glass globes and panels, etched glass and art glass
- Replacing all electrical components, rewiring
- ETL listing (UL specifications)
- Replace lamping bases with CFL pin bases or hardwired LED lamping in order to save energy, carbon and money over time.
- Reassembling and testing
- Creating archival drawings



Historical Replication



Fixture Before Restoration



After Restoration

# portland art museum case study

In 1991, The Portland Art Museum acquired the Masonic Temple of Portland, an 80-year-old structure adjacent to its campus in Portland, Oregon's downtown Cultural District. Its restoration was the culmination of a 10 year, \$125 million master plan for the Museum's revitalization and development. Prior to its renovation, the "North Building" was full of light fixtures of unknown origin. Although deemed to be historically valuable, there was no existing documentation as to who made them, where or when. Neither were there photographs showing what they had looked like originally. Since many of them were missing all of their glass globes, this created an interesting challenge!

This lighting restoration project included luminaires ranging from small single-lamp sconces to chandeliers five feet in diameter, from freestanding torchiers to large exterior sconces. The fixtures, reflecting a wide range of materials and manufacturing techniques, were in very poor condition, many of them coated in paint and not functioning.

Eleek submitted a competitive bid for this project and won the contract in December 2002. The work was completed and the restored fixtures were delivered to the job site in June 2005. The result is breathtaking and the response has been overwhelmingly positive. The complex opened on schedule in October 2005.

## The Restoration

We handled these delicate fixtures with kid gloves through the following steps:

- Created archival drawings of each fixture style so that any future restoration work can be done to current specifications.
- Conducted careful research to insure historical accuracy.
- Disassembled and cleaned all parts, stripping paint and old finishes as needed.
- Duplicated missing metal pieces by making molds from existing pieces and casting new parts.
- Refinished all parts, using historically accurate patinas and protective coatings.
- Replaced missing glass globes and panels, etched glass and art glass with historically correct replacements, building and utilizing adaptors as needed.
- Replaced all electrical components and wiring.
- Reassembled and tested each fixture.
- Listed each fixture for ETL compliance (using UL specifications).



# portland art museum case study: elements

## 18-Lamp Chandelier

HOW WE RESTORED THIS HISTORIC FIXTURE:

- All parts were stripped down to bare metal and refinished with a historically accurate finish.
- All electrical components were replaced to comply with UL specifications.



Detail of chandelier before restoration

Restored and reinstalled chandeliers



## Gothic Pendant

HOW WE RESTORED THIS HISTORIC FIXTURE:

- All parts were stripped down to bare metal and refinished with a historically accurate finish.
- All electrical components were replaced to comply with UL specifications.
- Historically accurate glass globes and tassels were sourced and replaced.



Restored & Rebuilt pendant

Restored pendants installed



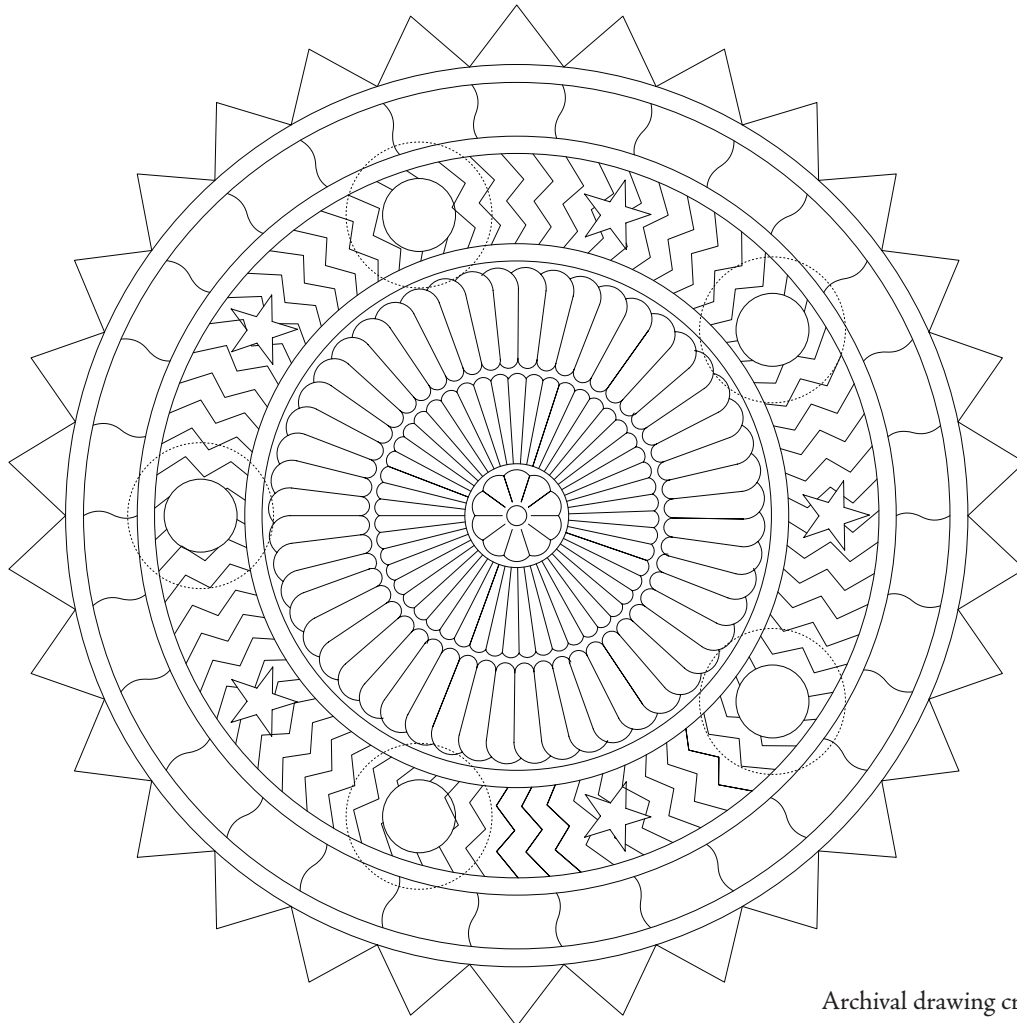
## Five-Lamp Ceiling Fixture

HOW WE RESTORED THIS HISTORIC FIXTURE:

- All parts were stripped down to bare metal and refinished with a historically accurate finish.
- All electrical components were replaced to comply with UL specifications.



Fixture Before Restoration



Archival drawing created by Eleek



Fixture After Restoration

Restored Sconces outside of the Portland Art Museum



**ELEEK** 2326 N FLINT AVENUE  
PORTLAND, OR 97227



V 503.232.5526

F 503.232.5527

INFO@ELEEKINC.COM

WWW.ELEEKINC.COM