



# Museum Lighting

Lighting Services Inc

More than to simply illuminate,  
lighting enhances artwork and  
creates the atmosphere for a total  
museum experience. Lighting  
Services Inc offers the very finest  
lighting equipment and accessories  
to achieve these goals. Innovative  
design, creative engineering and  
highly personalized service make  
us the lighting manufacturer of  
choice within the very demanding  
museum community. LSI has the  
products, personnel, and skills to  
help you present your exhibits in  
the best possible light.

Abante Fine Art Gallery, Portland, OR. Adler Planetarium, Chicago, IL.  
Aerospace Museum, Honolulu, HI. African American Museum, Detroit, MI.  
Albany Museum of Art, Albany, GA. Altoona Railroad Museum, Altoona, PA.  
American Museum of Natural History, New York, NY. American Visionary Arts Museum, Baltimore, MD.  
Amon Carter Center, Fort Worth, TX. Andrew Johnston Museum, Christiansburg, VA.  
Arizona History Museum, Tempe, AZ. Arizona Museum of Science, Phoenix, AZ.  
Art Center College of Design, Pasadena, CA. Art Center of Minnesota, Crystal Bay, MN.  
Art Institute of Chicago, Chicago, IL. Asian Art Museum, San Francisco, CA.  
Austin Museum, Austin, TX. Baltimore Aquarium, Baltimore, MD.  
Baltimore Museum of Art, Baltimore, MD. Beaver College Art Gallery, Glenside, PA.  
Beckman Institute, Pasadena, CA. Behring Auto Museum, Blackhawk, CA.  
Bella Artes Gallery, Santa Fe, NM. Belz Museum, Memphis, TN.  
Betsy Ross House, Philadelphia, PA. Betty Brinn Children's Museum, Milwaukee, WI.  
Bishop Museum, Honolulu, HI. Boston Museum of Science, Boston, MA.  
Bowers Museum, Santa Ana, CA. Bronx Zoo, Bronx, NY.  
Brooklyn Museum, Brooklyn, NY. Brooks Museum, Memphis, TN.  
Bruce Museum, Greenwich, CT. Burpee Museum of Natural History, Rockford, IL.  
Cahokia Museum, Cahokia, IL. California Museum of Science and Industry, Los Angeles, CA.  
California State Railroad Museum, Sacramento, CA. Cape Ann Museum, Gloucester, MA.  
Carnegie Museum of Art, Pittsburgh, PA. Cedar Rapids Museum, Cedar Rapids, IA.  
Chicago Children's Museum, Chicago, IL. Children's Museum, Boston, MA.  
Chippewa Valley Museum, Eau Claire, WI. Chrysler Car Museum, Auburn Hills, MI.  
Cincinnati Fire Museum, Cincinnati, OH. Circle Fine Arts Gallery, Beverly Hills, CA.  
City of Greensboro Historical Museum, Greensboro, NC. Colter Bay Museum, Colter Bay, WY.  
Columbus Museum, Columbus, GA. Conner Prairie Museum, Noblesville, IN.  
Corcoran Gallery, Washington DC. Corning Museum of Glass, Corning, NY.  
Cranbrook Institute, Bloomfield, MI. Dallas Museum of Art, Dallas, TX.  
De Witt Wallace Decorative Arts Center, Williamsburg, VA. De Young Museum, San Francisco, CA.  
DeCordova Museum, Lincoln, MA. Denver Art Museum, Denver, CO.  
Denver Museum of Natural History, Denver, CO. Detroit Institute of Art, Detroit, MI.  
Dewey Gallery, Santa Fe, NM. Dewitt Wallace Museum, Williamsburg, VA.  
Discovery 2000, Birmingham, AL. Discovery World, Milwaukee, WI.  
Eastman Kodak Museum, Rochester, NY. Edwin A. Ulrich Museum of Art, Wichita, KS.  
Exploreum Museum, Mobile, AL. Exploris Museum, Raleigh, NC.  
Feigen Gallery, New York, NY, Chicago, IL. Fenimore House Museum, Cooperstown, NY.  
Fernbank Natural History Museum, Atlanta, GA. Field Museum of Natural History, Chicago, IL.  
Florida State Museum, Gainesville, FL. Fort Ward Museum, Alexandria, VA.  
Forum Gallery, New York, NY. Franklin Institute of Science Museum, Philadelphia, PA.  
Gilcrease Institute, Tulsa, OK. Glenbow Museum, Calgary Alberta, Canada.  
Gonzaga University Museum, Spokane, WA. Great Lakes Museum, Cleveland, OH.  
Greenville Museum of Art, Greenville, NC. Guggenheim Museum, New York, NY.  
Haffenreffer Museum, Bristol, RI. Haggin Museum, Stockton, CA.  
Helen Marie Taylor Museum, Waco, TX. Heritage Center, Bismarck, ND.  
High Museum of Art, Atlanta, GA. Hirschorn Museum, Washington DC.  
Historic Deerfield Museum, Deerfield, MA. Hoard History Museum, Ft. Atkinson, WI.  
Hollywood Entertainment Museum, Hollywood, CA. Holocaust Museum, Los Angeles, CA.  
Hood Museum of Art, Dartmouth College, Hanover, NH. Houston Museum of Fine Art, Houston, TX.  
Houston Museum of Natural Science, Houston, TX. Institute of Texan Culture, San Antonio, TX.  
International Aerospace, Hall of Fame, San Diego, CA. Inventure Place, Akron, OH.  
Japanese American Museum, Los Angeles, CA. John G. Shedd Aquarium, Chicago, IL.  
Kansas City Jazz Museum, Kansas City, KS. Keene State College Art Gallery, Keene, NH.  
Kellogg Cereal City Museum, Battle Creek, MI. Kent State University Art Gallery, Kent, OH.  
Kentucky History Museum, Frankfort, KY. Lansing Museum and Library, Lansing, MI.  
Latin American Art Museum, Long Beach, CA. Liberty Science Center, Jersey City, NJ.  
Lisbon Aquarium, Portugal. Long Beach Aquarium, Long Beach, CA.  
Louisiana State Museum, New Orleans, LA. Louisville Slugger Museum, Louisville, KY.  
Lowe Art Museum, Coral Gables, FL. Lyman House Museum, Hilo, HI.  
Macon Museum of Arts and Sciences, Macon, GA. Maine Maritime Museum, Brunswick, ME.  
Mardi Gras Museum, New Orleans, LA. Mariner Museum, Newport News, VA.  
Maritime Aquarium, Norwalk, CT. Mashantucket Pequot Museum, Mashantucket, CT.  
Mille Lacs Indian Museum, Onamia, MN. Milwaukee Art Center, Milwaukee, WI.  
Mingei International Museum, San Diego, CA. Minneapolis Institute of Art, Minneapolis, MN.  
Minnesota Historical Society, St. Paul, MN. Mississippi State Historical Museum, Jackson, MS.

# Museum Lighting

Art Museums

Science Museums

History Museums

Aquariums/Zoos

Galleries



**Metropolitan Museum of Art** Protecting ancient artifacts in the Metropolitan Museum of Art's Chinese Galleries from damaging Ultra Violet and Infra Red light while producing required levels of illumination were the top priorities. The LSI Fiber Optic System, comprised of remote Tungsten Halogen Illuminators and adjustable head Light Bars, provided both the flexibility of accent lighting and the even wash of ambient lighting which satisfied all the aesthetic and conservation requisites.

**Museum of Fine Arts** Displaying some of the oldest antiquities in the world, the museum requires specialized lighting for organic objects to prevent Ultra Violet, Infra Red, and intensity damage. The solution was Fiber Optic lighting, providing the ability to create light ranging from a focused beam without spill light to a variety of flood beams with strict adherence to the conservation requirements.



## ART MUSEUMS



FOTH 2/75

### Metropolitan Museum of Art

New York, NY

**Lighting Design** Metropolitan Museum of Art, Zack Zanolli  
**Architect** Kevin Roche John Dinkeloo and Associates



F02-10/4

## Museum of Fine Arts

Boston, MA

**Lighting Design** Ripman Lighting Consultants, Chris Ripman and Abhay Wadhwa  
**Architect** Jung/Brannen Associates Inc.



"We wanted to give viewers the impression they were the first people to enter a newly opened tomb – the first to see fragile and mysterious objects nearly 8000 years old."

Chris Ripman, Lighting Designer

**Gerald Peters Gallery** Subtle lighting of fine art is important especially when lighting different architectural spaces in the same gallery. A carefully selected combination of lights and accessories enabled the lighting designer to achieve the quality and amount of light required in a variety of settings to enhance the art and surrounding space without intruding into the overall design.

**Norton Simon Museum** Lighting provides a pleasant, comfortable and stimulating viewing experience that flawlessly integrates with the newly designed galleries. The LSI lighting is applied in two layers: soft wall wash creating an even ambiance illuminating both the art collection and the space, and accent lights with integral dimmers focused to further subtly enhance the paintings and artworks.



## ART MUSEUMS



290 Series

### Gerald Peters Gallery

Santa Fe, NM

**Lighting Design** Power Engineering, David Gonzales  
**Architect** Steven Robinson Architect





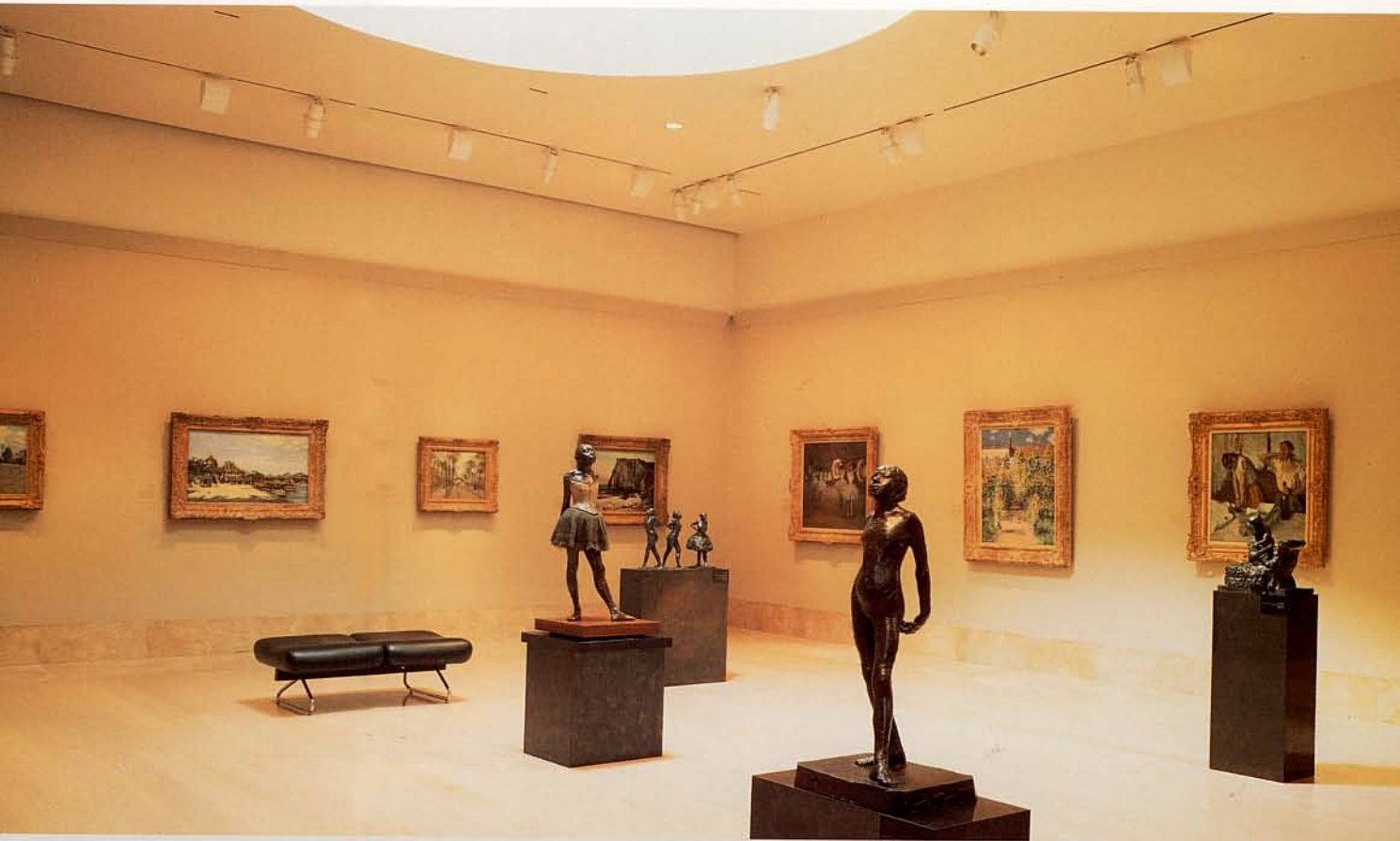
297 Series

## Norton Simon Museum

Pasadena, CA

Lighting Design Lam Partners Inc, Paul Zaferiou

Architect Frank O. Gehry and Associates



"Our challenge was to bring out the luminous quality of this classic art collection without reflected glare, distracting scallops or frame shadows on the art."

Paul Zaferiou, Lighting Designer

**Tech Museum of Innovation** Throughout, dramatic color washes are pierced by white light accents that inform and direct the eye, and kinetic lighting draws attention to specific areas while also evoking mood and theme. The lighting designer created a ceiling track system which provides a complete range of striking angles to accent all the exhibits.

**St. Louis Science Center** In a U.S.-Russian cooperative agreement, this exhibit shows some of the achievements of the Russian space program. A variety of lighting fixtures and accessories are used to create a high-contrast environment, with objects featured dramatically and without glare within a black environment. Lights are focused to simulate the angular emanation from the sun.



## SCIENCE MUSEUMS



LN16 Series

### Tech Museum of Innovation

San Jose, CA

**Lighting Design** Available Light Inc., Steven Rosen and Kathy Abernathy

**Architect** Ricardo Legorreta and Associates





36 Series

## St. Louis Science Center

St. Louis, MO

**Lighting Design** Randy Burkett Lighting Design, Inc., Randy Burkett

**Architect** E. Verner Johnson and Associates



"We had two basic requirements: Lights with long-term durability and a selection of accessories and control devices that enabled us to manipulate the light and achieve the effect we wanted."

Randy Burkett, Lighting Designer

**Skirball Cultural Center and Museum** With ceilings ranging from 10 to 25 feet high, the lighting challenge was to emphasize large exhibits while also restricting light levels on smaller, more sensitive artifacts. The lighting designer used a wide variety of lighting units and accessories that matched the needs of the objects being exhibited as well as the aesthetic requirements of the museum space.

**Milwaukee Public Museum** In the African Hall, the museum has recreated the atmosphere of the forest at twilight. The challenge was to provide dramatic low level lighting while avoiding distracting shadows. The desired mood was established with wide angle floodlights to create evening ambience and precisely focused spotlights to highlight the animals. Color filters and accessories are used throughout.



## HISTORY MUSEUMS



36 Series

### Skirball Cultural Center and Museum

Los Angeles, CA

**Lighting Design** F.N. Fenger and Associates, Nick Fenger

**Architect** Moshe Safdie and Associates





500 Series

## Milwaukee Public Museum

Milwaukee, WI

**Lighting Design** Milwaukee Public Museum, Emilio Bras

**Architect** Eschweiler and Eschweiler



"We needed flexibility, lights that we could position anywhere in the exhibit that would take any of several accessories to enhance the mood we were after."

Emilio Bras, Lighting Designer



**Rock and Roll Hall of Fame+Museum** The museum creates excitement and drama with different light levels and effects. An overall scheme was employed within which exhibits are lit by carefully controlled white light as shown by Pink Floyd's "The Wall," while surrounding areas were washed with continuously changing colors to make visitors feel as though they are "on stage."

**United States Holocaust Memorial Museum** In keeping with the themes of the Museum, the lighting system requirements were to use simple unobtrusive multi-lamp, flexible fixtures that would carefully light the various exhibits as required by design and conservation. LSI in collaboration with the Consultants developed and fabricated a new track system with custom fixtures that met and exceeded all their specifications.



## HISTORY MUSEUMS



300 Series

### Rock and Roll Hall of Fame + Museum

Cleveland, OH

**Lighting Design** Architectural Lighting Design, David Malman  
**Architect** Pei, Cobb, Freed and Partners



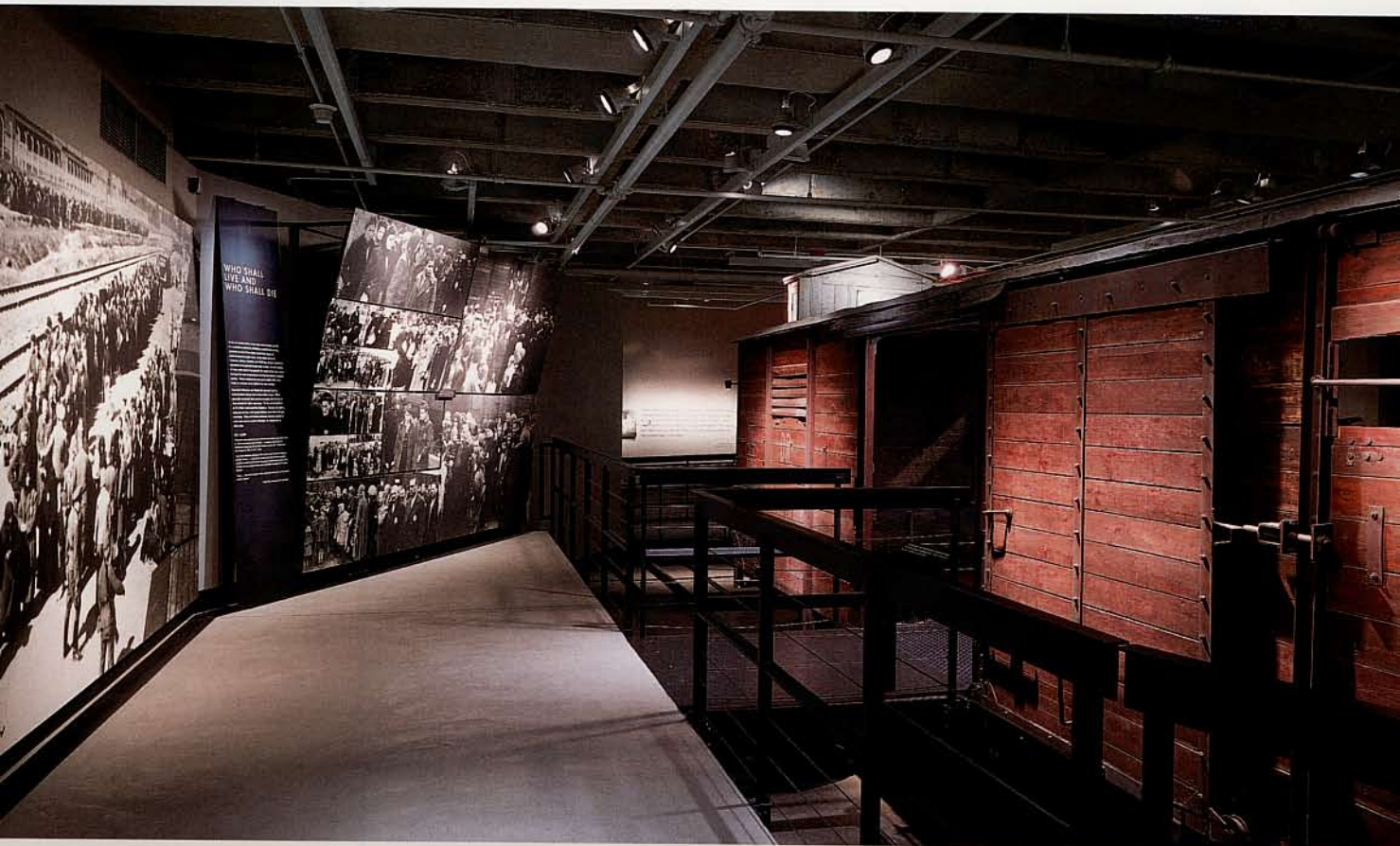
## United States Holocaust Memorial Museum

Washington DC

**Lighting Design** Fisher Marantz Stone, Paul Marantz

**Architect** Pei, Cobb, Freed and Partners

**Exhibit Design** Ralph Appelbaum Associates



"The exhibit design for the US Holocaust Museum required a highly integrated lighting solution. LSI worked closely with us to develop a special range of fixtures which utilized their complete line of standard accessories. The result was outstanding in every way."

Paul Marantz, Lighting Designer





## AQUARIUMS/ZOOS



500 Series

### Monterey Bay Aquarium

Monterey, CA

**Lighting Design** Monterey Bay Aquarium, Stanton Ruese

**Architect** Esherick, Homsey, Dodge and Davis



**Monterey Bay Aquarium** In over 44,000 square feet of display and exhibit space on three floors in two wings, a primary challenge and goal for the aquarium is to light the sea life tanks, public spaces, dry displays, and signage outside all the different types of exhibits. A variety of LSI high intensity 500 Series and Low Voltage Series lighting types of varying wattages with a complete range of color filters and accessories create the necessary glare-free dramatic and environmental effects to set the overall mood of the building by blending with and complementing the undersea atmosphere of the ocean which lies just beyond the aquarium.

"Lighting is critically important in helping us accomplish our goal of setting an appropriate mood in the aquarium, of faithfully emulating an undersea environment and treating each exhibit as a piece of art."

Stanton Ruese, Lighting Designer



## GALLERIES




LN36 Series

### Heller Gallery

New York, NY

**Lighting Design** Robin Drake Design, Robin Drake  
**Architect** Robin Drake Design



**Heller Gallery** The Heller exhibits glass and wood sculpture that varies greatly in size, detail, and finish which require many different lighting techniques. In addition to providing excellent gallery lighting, the variety of lighting solutions help the potential buyer visualize the art illuminated in different architectural and residential environments. Since LSI Track was used throughout, all surface mounted fixtures including the track were color coordinated in a Silver finish to enhance the total viewing environment. In addition, the track placement creates a traffic pattern which encourages the visitor to circulate throughout the many rooms and see all the exhibits.

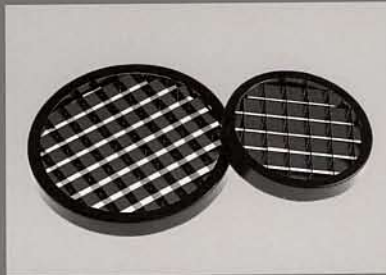
"I needed a counterpoint to the wooden floor. The aluminum track had a soft look and the fixtures are so well designed that they give a very good first impression."

Robin Drake, Lighting Designer

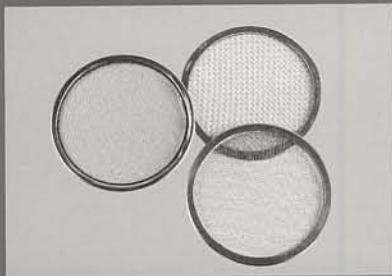




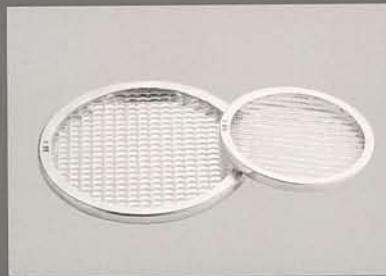
Hoods



Louvers



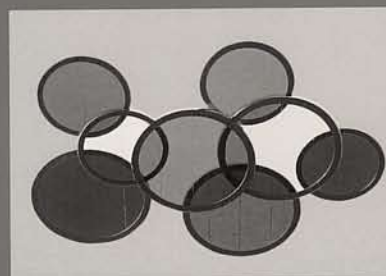
Light Blocking Screens



Spread Lens



Integral Dimmer



Color Filters

## ACCESSORIES

**UV Filters** eliminate the Ultra Violet light below 410 nanometers to prevent deterioration and degradation of organic textiles and artworks.

**Hoods and Louvers** control unwanted spill light and glare by means of a nominal 45° cut off.

**Light Blocking Screens** can be used individually or in combination to mechanically reduce the intensity of light without changing the color temperature.

**Spread Lens** modify existing lamp beam spreads. Light can be spread omnidirectionally or in one axis.

**Integral Dimmer** individually fine tunes the light units, from off to full intensity, achieving the desired aesthetic and conservation light levels.

**Color Filters** subtly or dramatically add color accents and can also warm or cool the space by changing color temperature of the lights.

Mitchell Museum, Mt. Vernon, IL. Mono Lake Visitors Center, Lee Vining, CA.  
 Morikami Museum, Delray Beach, FL. Morris Museum, Morristown, NJ.  
 Morven Farms Carriage House, Charlottesville, VA. Museum of Anthropology, Vancouver, BC.  
 Museum of Art, Carnegie Institute, Pittsburgh, PA. Museum of Church History and Art, Salt Lake City, UT.  
 Museum of Confederacy, Richmond, VA. Museum of Discovery, Ft. Lauderdale, FL.  
 Museum of Indian Arts and Culture, Sante Fe, NM. Museum of International Folk Art, Sante Fe, NM.  
 Museum of Jewish Heritage, New York, NY. Museum of Modern Art, New York, NY.  
 Museum of Natural History, Los Angeles, CA. Museum of New Mexico, Santa Fe, NM.  
 Museum of Northern Arizona, Flagstaff, AZ. Museum of Northern British Columbia, Prince Rupert BC.  
 Museum of Science, Boston, MA. Museum of Science and Technology, Syracuse, NY.  
 Museum of the American Indian, New York, NY. Museum of the Horse, Ruidoso Downs, NM.  
 National Aquarium, Washington DC. National Baseball Hall of Fame, Cooperstown, NY.  
 National Bowling Hall of Fame and Museum, St. Louis, MO. National Civil Rights Museum, Memphis, TN.  
 National Cowboy Hall of Fame, Oklahoma City, OK. National Gallery of Art, Washington DC.  
 National Museum of Science and Technology, Ottawa, Canada. National Museum of the American Indian, Washington DC.  
 National Museum of Women Arts, Washington DC. National Wildlife Museum, Jackson, WY.  
 National Zoo, Washington DC. NCAA Visitors Center, Overland Park, KS.  
 Neuberger Museum, Purchase, NY. Neville Public Museum, Green Bay, WI.  
 New Hanover County Museum, Wilmington, NC. New Jersey State Aquarium, Cherry Hill, NJ.  
 New Orleans Museum of Art, New Orleans, LA. New York City Transit Museum, New York, NY.  
 New York Hall of Science, New York, NY. New York Historical Society, New York, NY.  
 New York University Grey Art Museum, New York, NY. Newark Museum, Newark, NJ.  
 Newport Harbor Art Museum, Newport, CA. North Carolina Aquarium, Kure Beach, NC.  
 North Carolina Museum of History, Raleigh, NC. North Carolina Museum Sports Hall of Fame, Raleigh, NC.  
 Norton Gallery of Art, West Palm Beach, FL. NRA Firearms Museum, Fairfax, VA.  
 NW Michigan College, Community Art Museum, Traverse City, MI. NW Museum of National History, Ashland, OR.  
 Odyssey Museum, Seattle, WA. Orange County Museum of Art, Newport Beach, CA.  
 Oregon Museum of Science and Industry, Portland, OR. Overstate Museum, Vermillion, SD.  
 Pace Wildenstein Gallery, Los Angeles, CA. Palm Springs Desert Museum, Palm Springs, CA.  
 Peabody Museum, New Haven, CT. Pensacola Museum of Art, Pensacola, FL.  
 Peterson Automotive Museum, Los Angeles, CA. Philadelphia Zoo, Philadelphia, PA.  
 Philbrook Art Center, Tulsa, OK. Phoenix Art Museum, Phoenix, AZ.  
 Pink Palace Museum, Memphis, TN. Pittman Gallery, Tarboro, NC.  
 Plains Art Museum, Fargo, ND. Postal Museum, Washington DC.  
 Princeton University Art Museum, Princeton, NJ. Public Museum of Grand Rapids, Grand Rapids, MI.  
 Pueblo Grande Museum, Phoenix, AZ. Reading Public Museum, Reading, PA.  
 Rhode Island School of Design Museum of Art, Providence, RI. Roanoke Valley Science Museum, Roanoke, VA.  
 Rochester Museum of Science Center, Rochester, NY. Royal British Columbia Museum, Victoria, BC.  
 Royal London Wax Museum, London, England. San Angelo Museum of Fine Arts, San Angelo, TX.  
 San Antonio Museum of Art, San Antonio, TX. San Francisco Museum of Modern Art, San Francisco, CA.  
 San Francisco Zoo, San Francisco, CA. San Jacinto Monument, Houston, TX.  
 San Jose Museum of Art, San Jose, CA. Santa Barbara Museum of Art, Santa Barbara, CA.  
 Science Museum of Charlotte, Charlotte, NC. Science Museum of Minnesota, St. Paul, MN.  
 Security Pacific Gallery, San Francisco, CA. Seoul Art Museum, Seoul Korea.  
 Shelburne Museum, Shelburne, VT. Shriver Gallery, Taos, NM.  
 Smithsonian Air and Space Museum, Washington DC. Spirit of Ford, Dearborn, MI.  
 Springville Art Museum, Springville, UT. St. Louis Zoo, St. Louis, MO.  
 Stark Museum of Art, Orange, TX. State Museum of Pennsylvania, Harrisburg, PA.  
 State of Louisiana Museum, New Orleans, LA. Statue of Liberty Museum, Liberty Island, NY.  
 Syracuse University Lowe Art Gallery, Syracuse, NY. Tacoma Art Museum, Tacoma, WA.  
 Tacoma Childrens Museum, Tacoma, WA. Tennessee State Museum, Nashville, TN.  
 Timken Museum, San Diego, CA. Tufts Art Gallery, Wilmington, MA.  
 Tufts University Aiderman Arts Center, Medford, MA. University of Arkansas Museum, Fayetteville, AR.  
 University of Northern Iowa Museum, Des Moines, IA. University of Notre Dame Snite Museum, South Bend, IN.  
 University of Southern California Fisher Gallery, Los Angeles, CA. University of Virginia Art Museum, Charlottesville, VA.  
 University of Washington Burkes Museum, Seattle, WA. United States Military Academy Museum, West Point, NY.  
 Virginia Museum of Fine Arts, Richmond, VA. Wadsworth Atheneum, Hartford, CT.  
 Walters Art Gallery, Baltimore, MD. Ward Museum, Salisbury, MD.  
 Washington State History Center, Tacoma, WA. Whitney Museum, Stamford, CT.  
 Whyel Doll Art Museum, Bellevue, WA. Wildenstein Gallery, New York, NY.  
 Winthrop Rockefeller Museum, Williamsburg, VA. Wisconsin Veterans Museum, Madison, WI.  
 Woods Art Gallery, Hattiesburg, MS. Words and Picture Museum, Amherst, MA.  
 World Golf Hall of Fame, St. Augustine, FL. Yale University Art Galley, New Haven, CT.

#### Photo credits

Gerald Peters Gallery Robert Reck Photography®

Rock and Roll Hall of Fame+Museum® Courtesy of  
the Rock and Roll Hall of Fame+Museum®

Monterey Bay Aquarium Randy Wilder Photography®



Lighting Services Inc  
2 Kay Fries Drive  
Stony Point, NY 10980-1996

Tel: +1 800 999 9574  
+1 845 942 2800  
Fax: +1 845 942 2177  
[www.LightingServicesInc.com](http://www.LightingServicesInc.com)