



LUXAM
Lighting For Museums

LUXAM.COM



FIBER OPTIC SYSTEM

Product Catalog
2022



WORLD'S LEADING
MUSEUM SHOWCASE
LIGHTING COMPANY



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FIBER OPTICS SYSTEM

An EXCLUSIVE & CUSTOM LIGHTING SYSTEM

The Luxam Fiber Optic System enables each object to benefit from an individual lighting that puts forward its details, colours, textures and its organic differences. Our concept makes it possible to rigorously control the visual ergonomics (multiple levels of lighting, reflections and highlights) offering an optimal perception of objects and text for the observer.

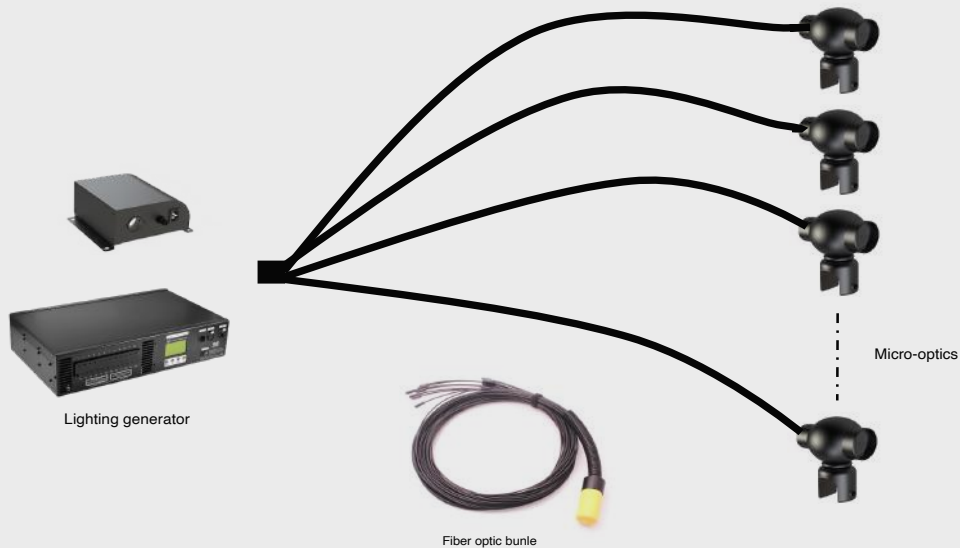
The illuminators are installed outside of the case avoiding any problems of obsolescence due to the evolution of the LED. The mechanical part of the system, the fiber and terminals, always staying perfectly adapted.

This hybrid system uses the best of the technical evolution of lighting. combining the conservation quality and flexibility of fiber optics with the power of LED. Fiber optics are still the only way to avoid heat and electricity to enter the case. Our miniature optical terminals are easily hidden from visitors.

Objects that tolerate different light levels can be displayed side by side without damage from excessive illumination.

Luxam's revolutionary Hybrid System is dedicated to conservation.

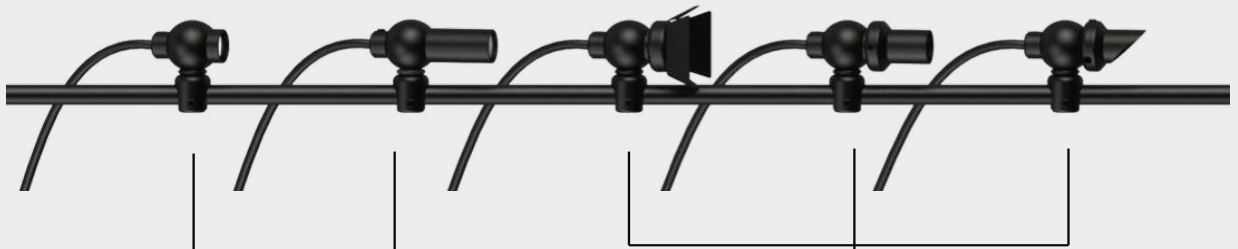
Our range fiber optics solely dedicated to the museum environment. The absence of heat and ultraviolet radiation combined with the fine control of the visual energy makes it possible to conform to the most rigorous preventive conservation standards.



Luxam CAX Fiber Optic Bundle:
Mated our LED Fiber Optic illuminators it brings the light directly to our Micro Optics



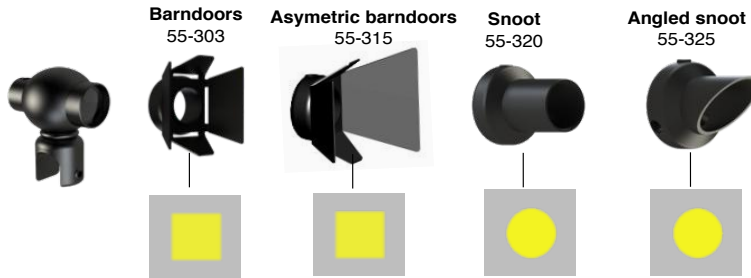
MICROFIBER OPTIC SYSTEM



Micro-optic 10°

Micro-optic 5°

Accessories

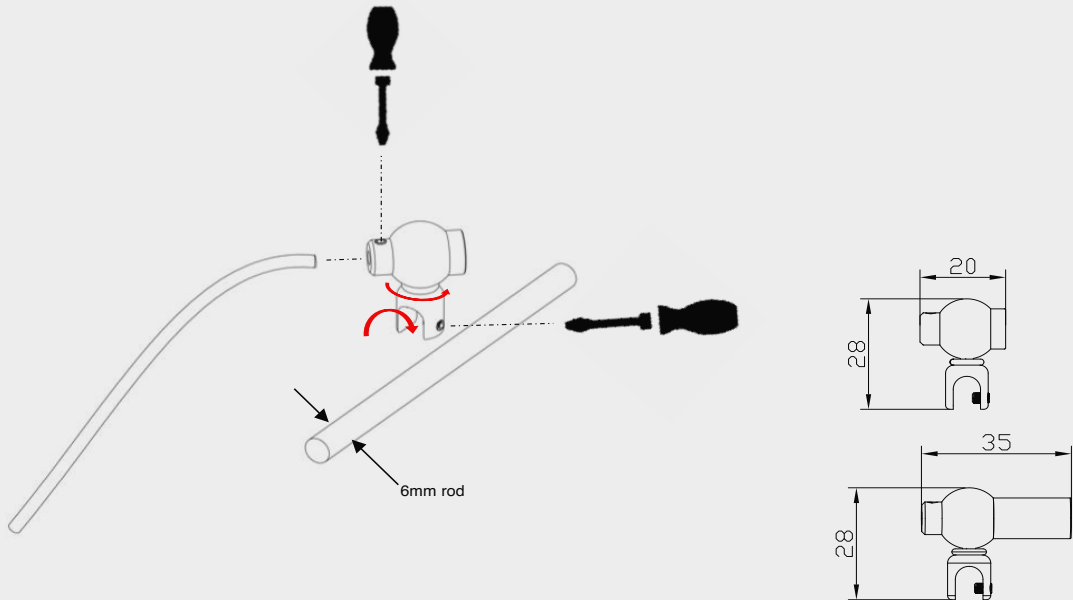


Barndoors
55-303

Asymmetric barndoors
55-315

Snoot
55-320

Angled snoot
55-325



MICROFIBER OPTIC SYSTEM

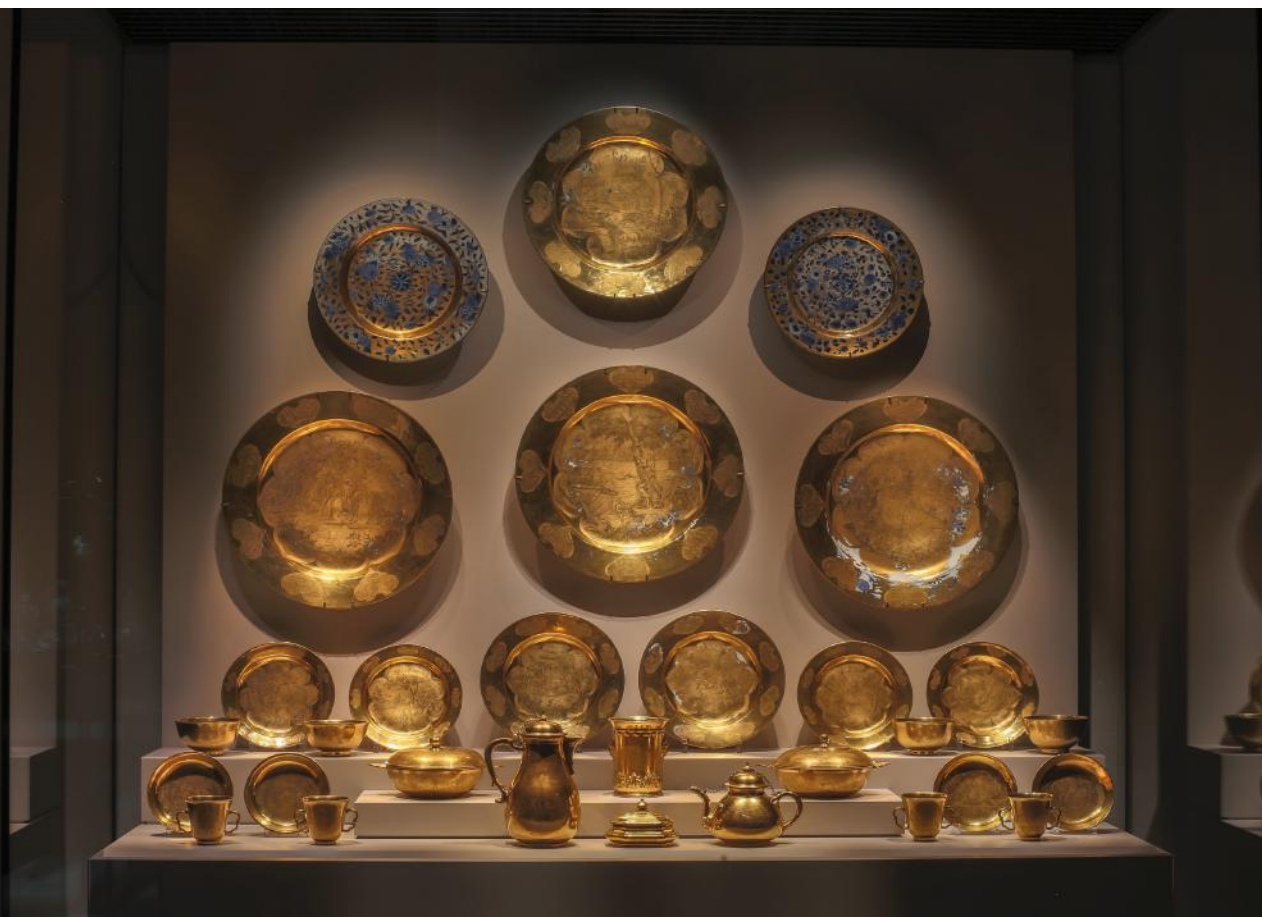
SPECIFICATIONS

Active Diameter	1.5mm	2.0mm	3.0mm	4.0mm	5.0mm
Outside Diameter	2.0mm	2.8mm	6.0mm	7.0mm	8.0mm
Minimum 90° turning radius	20mm (3/4")	40mm (1.57")	50mm (2")	60mm (3")	65mm (4")
*Optimal fibers/connector	30	24	20	12	4

TYPICAL FIBER BUNDLES WITH ORDER CODE:

Maximum tail length for optimal performance is recommended to be less than 20'.

- **Bundle 1.5 x 24 x 3**
1.5mm x 24 tails x 3 meters, to common connector
- **Bundle 2 x 16 x 3**
2.0mm x 16 tails x 3 meters, to common connector
- **Bundle 3 x 12 x 4**
3.0mm x 12 tails x 4 meters, to common connector
- **Bundle combo 1.5 x 10 x 3 + 2 x 10 x 3**
Combo - 20 tails, 10 x 1.5mm and 10 x 2.0mm to common connector
- Custom fiber bundles of any length & combination of diameters available as standard order



MICROFIBER OPTICS & ACCESSORIES



10°-60°, Aluminum Alloy, Black

Item Code
55-210



5°-60°, Aluminum Alloy, Black

Item Code
55-207



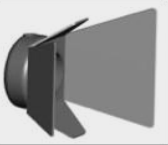
Barn door,
Aluminum Alloy, Black

Item Code
55-303



Angled Snoot,
Aluminum Alloy, Black

Item Code
55-325



Asymmetrical Barn door,
Aluminum Alloy, Black

Item Code
55-315



Snoot, Aluminum Alloy, Black

Item Code
55-320

* Images are enlarged to show detail



MICROFIBER OPTIC SYSTEM

FIBER BUNDLE TAILS



Micro/ Nano Bundle

Mini bundle w/ferrules



Common connector
factory polished



TO SPECIFY BUNDLES :

Fiber active diameter x # tails x length per tail - meters

Example: 2mm x 16 x 3 meters

- ★ Mixed bundles of fiber diameters available.
- ★ Individual staggered tail lengths available.
- ★ 1.5mm and 2mm tails can be cut and polished on site.
- ★ Custom fiber bundles of any length and combination of diameters available as standard order.

Details:

- Diameter: core 2mm / jacket 2.8mm
- Material: Toray PMMA fiber optic
- Jacket material: Megolon, resistant and chlorine free
- Number of fibers per bundle: 6 to 24
- Max length: 5m



- ✓ Grid Top
- ✓ 6mm Bar

The Mini fixture is utilized for larger open spaces and artifacts



MICROFIBER OPTIC ILLUMINATORS

Mated to our fiber optic bundle CAX2 brings the light directly to our Microfixtures inside the casework.

15-121 / 20W Specifications:

- Max power consumption: 37W
- Input Voltage: 190-240V AC
- Input Current: 1A
- CRI - 3000K - 97
- CCT: 3000K or 4000K
- Dimmer function
- Operating temp: Natural Convection
- Weight: 1.24kgs / 2.75lbs
- Dimensions: 152mm x 81mm x 125mm



Product codes

CCT 2700K: 15-121-2.7K
CCT 3000K: 15-121-3K
CCT 3500K: 15-121-3.5K
CCT 4000K: 15-121-4K

10-200-BP Specifications

- Max power consumption: 41W
- Input Voltage: 90-240V AC 60Hz
- Input Current: 1A
- CRI 3000K - 97, 3500K - 90+, 4000K - 90+
- CCT: 3000K or 4000K
- Dimmer function
- Operating temp: +5° t_a <math><40^{\circ}\text{C}</math>
- Weight: 1.4kgs / 3lbs
- Dimensions: 199.5mm x 131.7mm x 98.5mm



Product code

CCT 3000K: 10-200-BP-3K
CCT 4000K: 10-200-BP-4K

10-200-BP-DMX Specifications

- Max power consumption: 41W
- Input Voltage: 90-240V AC 60Hz
- Input Current: 1A
- CRI 3000K - 97, 3500K - 90+, 4000K - 90+
- CCT: 3000K or 4000K
- Dimmer function
- Operating temp: +5° t_a <math><40^{\circ}\text{C}</math>
- Weight: 1.44kgs / 3.2lbs
- Dimensions: 199.5mm x 131.7mm x 98.5mm



Product code

CCT 3000K: 10-200-BP-DMX-3K
CCT 4000K: 10-200-BP-DMX-4K



MICROFIBER OPTIC ILLUMINATORS

Illuminator powered by an array of 24 powerful white LEDs. Each LED is mated to an individual fiber optic tail to bring the light directly to Luxam Micro fixtures inside the casework. By combining the best attributes of LEDs and fiber optic delivery systems, the dynamic interactive showcase is now possible.

80-101 / 24 Channel Hybrid LED Illuminator

Specification

- 24 channels / DMX512 dimming 0-255
- 24 single LED of 3W
- For 24 Luxam fiber optic CAX2, core diameter 2mm.
- DMX IN/ OUT connectors
- Ethernet connector RJ45 to connect a Wifi router
- Max power consumption: 110W
- Input Voltage: 90-240V AC
- Input Current: 1A
- CCT: 3000K or 4000K
- Max operating temperature: 40°C
- Use: For Indoor use only, IP20
- Dimensions: 440mm*265mm*100mm



80-105 / 5 Port Hybrid LED Illuminator

Specification

- 5 channels/ DMX dimming capable
- 5 channel of control via PC console for timed transitions
- Remote location keeps out heat and electric power inside the display
- Stream content directly to visitor personal devices
- Wireless transmission to mobile server to modify on the fly
- Max power consumption: 35W
- Input Voltage: 90-240V AC
- Input Current: 1A
- CCT: 3000K or 4000K
- Max operating temperature: +5° to 40°C
- Use: For Indoor use only, IP20
- Dimensions: 440mm*155mm*65mm



MICROFIBER OPTIC LIGHTSTICK

FIBER OPTIC LIGHTSTICK

Fiber Optic Lightsticks are the linear expression of fiber optic lighting. They are designed to illuminate two-dimensional surfaces with an even spread of light.

FIBER OPTIC LIGHTSTICKS

- Custom fabrication to your exact specifications
- Perfect for documents, books, and text panels
- Provides a show less wash of light
- Uniform base light in a 3D space for small cases
- Standard focus at 60° wash
- Tight focus capable at 30°
- Wide focus capable for vitrines at 90°
- Length measurement must include Live End Cap and End Cap



Available Sizes:
✓ 20mm (Standard)
✓ 16mm
✓ 10mm



MICROFIBER OPTIC LIGHTSTICK & ACCESSORIES

LIGHTSTICKS MOUNTING

ELBOWS/GANTRY

90° elbo for 16mm and 20mm for gantry and thrust mounting in table cases, vitrines, and wall cases. To specify stick lenght for elbows - provide drawing.

BASE

Base support for 16mm black 22-105

Base support for 20mm black 22-101



C-CLAMP

C-clamp with surface mount 16mm black 22-316

C-Clamp with surface mount 20mm black 22-320

C-Clamp with surface mount 24mm black 22-324

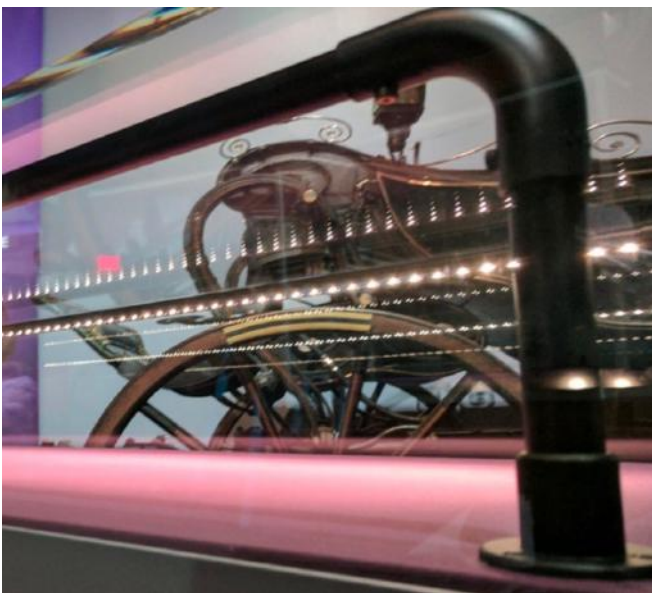


Gantry Elbows



VERTICAL

Flange socket base for vertical mounting 16mm 22-104



Gantry elbows mounts

Flange socket for vertical Lightsticks and gantry sticks



Vertical



MICROFIBER OPTIC MICROTOWERS

FIBER OPTIC MICROTOWERS

Self supported fiber optic Microtower s are for most vertical applications.

This flexible system uses pins that can be adjusted to provide the desired focus according to the objects.

For Vitrines and Four-Sided viewing when you cannot attach the lighting to the casework sides. Mounting

Options include a flange mount for the base and/or ceiling.

FEATURES

Pan & Tilt capable

Variable spacing between fixtures provides great flexibility for focusing

Standard Color: Anodized Matte Black - exterior extrusion can be painted

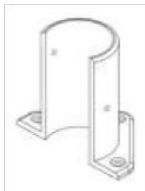
Custom lengths to 2.5 m

Unique triangular mount to fit tight corners

MICRO FIBER OPTIC FEATURES

55-210 MICRO 10° : 10 to 60°

55-207 MICRO 5° : 5° to 50°



Flange: 78.18mm wide

Unique triangular mount fits seamlessly into corners



Adjustable Pins



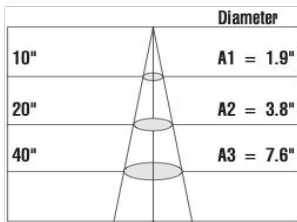
stopped the South's second and last major offensive in Northern territory.



PHOTO 10

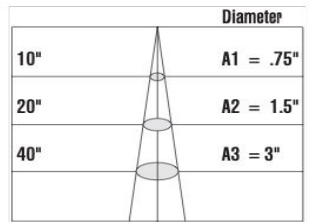
Micro fixture 10 degrees (55-101) with 1.5mm fiber

Spot 10°	10"	20"	40"
diameter	A1 = 1.9"	A2 = 3.8"	A3 = 7.6"
35 W	68 fc	17 fc	5 fc
50 W	77 fc	20 fc	6 fc
100 W	242 fc	63 fc	17 fc
150 W MH	478 fc	120 fc	34 fc

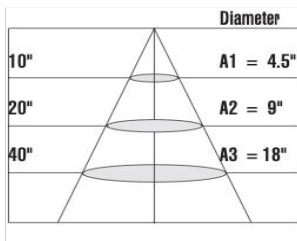


Micro fixture 5 degrees (55-541) with 1.5mm fiber

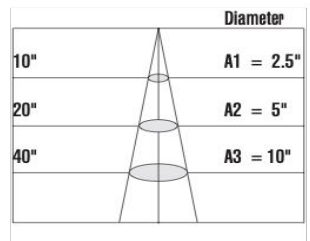
Spot 4.6°	10"	20"	40"
diameter	A1 = .75"	A2 = 1.5"	A3 = 3"
35 W	140 fc	35 fc	9 fc
50 W	160 fc	40 fc	10 fc
100 W	500 fc	131 fc	35 fc
150 W MH	995 fc	250 fc	70 fc



Flood 26°	10"	20"	40"
diameter	A1 = 4.5"	A2 = 9"	A3 = 18"
35 W	42 fc	12 fc	3 fc
50 W	47 fc	14 fc	3 fc
100 W	163 fc	47 fc	12 fc
150 W MH	325 fc	93 fc	23 fc

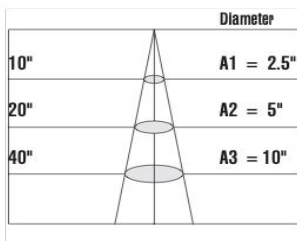


Flood 14.4°	10"	20"	40"
diameter	A1 = 2.5"	A2 = 5"	A3 = 10"
35 W	50 fc	15 fc	4 fc
50 W	57 fc	17 fc	5 fc
100 W	200 fc	57 fc	14 fc
150 W MH	400 fc	113 fc	29 fc



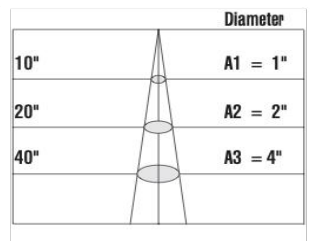
Micro fixture 10 degrees (55-101) with 2.0 mm fiber

Spot 15°	10"	20"	40"
diameter	A1 = 2.5"	A2 = 5"	A3 = 10"
35 W	79 fc	21 fc	6 fc
50 W	91 fc	24 fc	7 fc
100 W	343 fc	88 fc	24 fc
150 W MH	595 fc	153 fc	44 fc

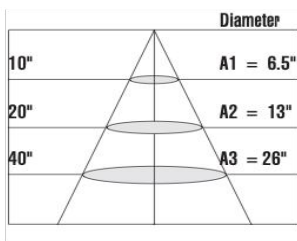


Micro fixture 5 degrees (55-541) with 2.0 mm fiber

Spot 5°	10"	20"	40"
diameter	A1 = 1"	A2 = 2"	A3 = 4"
35 W	125 fc	34 fc	9 fc
50 W	156 fc	38 fc	11 fc
100 W	545 fc	140 fc	39 fc
150 W MH	945 fc	240 fc	69 fc



Flood 36°	10"	20"	40"
diameter	A1 = 6.5"	A2 = 13"	A3 = 26"
35 W	69 fc	18 fc	6 fc
50 W	74 fc	21 fc	6 fc
100 W	210 fc	60 fc	15 fc
150 W MH	420 fc	134 fc	26 fc



Flood 15°	10"	20"	40"
diameter	A1 = 2.5"	A2 = 5"	A3 = 10"
35 W	79 fc	20 fc	6 fc
50 W	85 fc	24 fc	7 fc
100 W	240 fc	69 fc	17 fc
150 W MH	480 fc	155 fc	30 fc

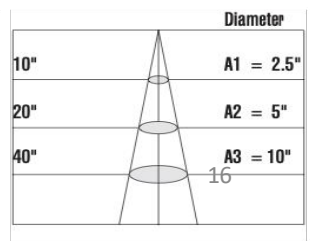




PHOTO REFERENCES

- PHOTO 1: National Museum of US Army
Exhibit Fabricator: Design and Production
Exhibit Cases: Mayaert
Exhibit Lighting: Available Light Photograph
Credit: 2020 Duncan R. Millar
- PHOTO 2: University of Melbourne- Old Quad Museum Lighting
Designer: MEGS Lighting
Case Fabricator: European Museum Technologies
Photography Credit: Christian Capurro
- PHOTO 3: National Museum of African History and Culture Lighting
Designer: Fisher Marantz Stone
Exhibit Designer: Ralph Appelbaum Associates Integrator:
Design and Production
Exhibit Fabricator: Design and Production Display Case
Focusing: Luxam Lighting Photography Credit: Alan
Karchmer, Alex Jamison, Eric Long courtesy of NMAAHC
- PHOTO 4: Australian Museum
Lighting Designer: MEGS Lighting Case
Fabricator: Goppion Heritage Architect:
Design 5 Exhibit Designer: Aaron Mae
Photography Credit: Rosie Hastie
- PHOTO 5: Museum of Old and New Art (MONA)
Exhibit Designer: Aaron Mae Lighting
Designer: MEGS Lighting Photography
Credit: Rosie Hastie



PHOTO REFERENCES

PHOTO 6: Louvre Museum
Display Case Focusing: Luxam Lighting Case
Fabricator: Muevo
Photograph Credit: Muevo

PHOTO 7: Louvre Museum
Display Case Focusing: Luxam Lighting Case
Fabricator: Muevo
Photograph Credit: Muevo

PHOTO 8: National Museum of African History and Culture Lighting
Designer: Fisher Marantz Stone
Exhibit Designer: Ralph Appelbaum Associates Integrator:
Design and Production
Exhibit Fabricator: Design and Production Display Case
Focusing: Luxam Lighting Photography Credit: Alan
Karchmer, Alex Jamison, Eric Long courtesy of NMAAHC

PHOTO 9: QASR AL WATAN
Case Fabricator: Myvaert
Photography Credit: Catalin Marin

PHOTO 10: National Museum of US Army
Exhibit Fabricator: Design and Production
Exhibit Cases: Myvaert
Exhibit Lighting: Available Light Photograph
Credit: 2020 Duncan R. Millar

OUR REFERENCES

NORTH AMERICA

Alabama State Archives, Montgomery, AL
American Museum of Natural history – NY
Appomattox Court House Museum – VA
Armenian Museum of America – MA
Autry Museum of the West
Babe Ruth Birthplace –MD
Boston Fine Art, Boston, MA
Carnegie Museum of Natural History, PA
Carnegie Museum of New Hampshire – NH
Central Synagogue, Manhattan, NY
Chicago History Museum – IL
Chicago Museum of Science and Industry, Chicago, ILL
Cincinnati Art Museum – OH
Cleveland Museum of Natural History – OH
Collier County Museum, FL
Cranbrook Institute – MI
Emory University – GA
Fine Arts Museum of San Francisco - CA
First Division Museum at Cantigny, Wheaton, IL
Ford's Theatre – DC
Frazier Historical Arms Museum, Loufsville, KY
Frick Collection, NY
George W. Bush Presidential Library, Dallas, TX
Georgia State Capitol Museum – GA
GIA Institute, CA
Hillwood Estate Museum – DC
Jamestown/Yorktown Foundation – VA
Jim Moran foundation – FL
Knoxville Museum of Art, TN
LSU Museum of Art – LA
Marco Island Museum, FL
Mariners Museum, VA
Metropolitan Museum of Art, NY
Mississippi Museum of Natural History – MI
Mississippi Museum of Natural history, Jackson, MS
Mt. Vernon Education Center, VA
Museum of American finance – NY
Museum of Fine Art p Boston – MA
Nantucket Whaling Museum, Nantucket, MA
National Archives, DC
National Civil War Museum, PA
National Infantry Museum – GA
National Museum of African American History and Culture – DC
National Museum of American History, DC
National Museum of American Indians, NY
National Museum of Natural history -Deep time 2019
National Museum of Natural History, DC
National Museum of the American Indian, DC
National Museum of Women in the Arts, Washington, DC
National Portrait Gallery, DC
National Postal Museum, DC
New York Historical Society – NY
Newseum – DC
Norton Museum of Art – FL
Old Conn. Statehouse, CT
Peabody Essex Museum – MA
Philadelphia Museum of Art – PA
Pitts Theology Library Emory University, Atlanta, GA
Polk County Museum, FL
Ronald Regan Presidential Library, CA
Sandoway Nature Center, Delray, FL
Smithsonian Libraries – DC
Sports Legends Museum – Camden Yards, Baltimore, MD
The Asia Society, NY
The Catholic Museum of America – DC
The Cloisters, NY
The Holy Land attraction, Orlando, FL
The Library of Congress, Washington, DC
The Mob Museum
The White House Porcelain Collection, DC
University Conn Ballard Museum of Puppetry, CT
University of Florida Harn Museum of Asian Art, Gainesville, FL
US Marine Corps Museum, VA
US Mint, Philadelphia, PA
US Naval Academy – John Paul Jones crypt, Annapolis, MD
USC – Doheny Library Treasure Room, Los Angeles, CA
US Golf association Museum
Vassar College, NY
Virginia Museum of Fine Art - VA
Walters Art Museum, Baltimore, MD

SOUTH AMERICA

Acheological Museum of Piura, Peru
Museo Carlos Costa Pinto, Salvador de Bahia, Brasil
Museum of Sacred Art, Belem, Brasil
Museo de la moda, Santiago, Chile
Museo de Bellas Artes, Santiago, Chile

EUROPE

Amsterdam University Library
Archeological museum of Mykenae
Army Museum, Bruxelles
Ashmolean Museum ,Oxford
Australian Memorial Monash Villers bretonneux, France
Blaschka collection, Aquarium, Liège
Byzantine Museum, Athens
Carolus Borromeus, Antwerpen, Belgium
Faberge and Icon exhibition,Vatican
Hasselt Museum, Belgium
Diamond museum, Antwerpen, Belgium
Faberge Exhibition, Venaria Reale, Torino
Gaasbeck castle, Belgium
Historische Museum, Basel
Holborn museum, Bath, UK
Katoenatie museum, Antwerpen, Belgium
King's Library British Museum, UK
La Bibliothèque Nationale, Paris
Landesmuseum Emden, Germany
Le Musée d'Orsay, Paris
Le Musée des Antiquités Nationales de Saint Germain en Laye
Manching kelt museum, Germany
Le Musée Fragonard de Grasse
Le Palais de la Découverte, Paris
Les Archives Nationales, Paris
Library Braunschweg, Germany
Maison Rouge, Paris
MAS, Antwerpen, Belgium
National Bavaria Library, Munich, Germany
Middelheim museum, Atwerpen
Mineralogy Museum Beyrouth
Musée parfum Fragonard, Paris
Musée Boralli, Marseille
Musée de l'Armée, Invalides, Paris
Musée de l'esclavage, Pointe a pitre, Guadeloupe, France
Musée de la dentelle, Calais, France
Musée de la gendarmerie, Melun, France
Musée Delvaux Brussels, Belgium
Musée Historique de Strasbourg, France
Musée des Beaux Arts, Bruxelles
Musée L Louvain la Neuve, Belgium
Musée M laeuven, Belgium
Museum of London
Museum of Natural History, Madrid
National Archeological Museum of Athens
National Archeological Museum of Thessaloniki
National Bavaria Museum, Munich, Germany
National Museum of Iceland
National Museum of Ireland 1916
Order of st John Museum
Palais Borely, Marseille, France
Palais de Tokyo , Paris
Palais de Versailles, France
Petit Palais, Paris
Pitt Rivers Museum, Oxford
Preston Porcelain Museum, UK
Rijks egyptian collection Leiden Holland
Royal Library Bruxelles
Royal Medieval Textile Museum, Burgos, Spain
Saint Peter Babbey, Gent, Belgium
Toy Museum, Luxembourg
Valencia History Museum, Spain

ASIA

Asian Civilization Museum, Singapore
Ceramic gallery, Reference Collection, Forbidden city, Beijing
Chiang Mai national Museum, Thailande
Fireboat Museum, Hong Kong
Hubei history Museum, China
Hunan Museum, Changsha, China
Indian Heritage Museum, Singapore
Inner Mongolia Museum, China
National Library, Singapore
National Library, Singapore
National Museum of Singapore
Peranakan Museum, Singapore
Shenzen regional Museum, China
Shindagha, Dubai
The Charlots, The Terra Cotta Museum, Xian, China
Shanxi Bronze museum, Taiyuan, China
Pizhou History Museum, China
Inner Mongolia Natural History Museum, Hohhot, China
Salvador Dalí Exhibition, Shenzhen, China
Tiffany & Co. 175th Anniversary exhibition, Shanghai, China

OCEANIA

Australia Museum ,Sydney ,Australia
Australian National Maritime Museum
He Tohu ,Wellington, New Zealand
MONA, Hobart ,Tasmania
National Gallery of Victoria, Melbourne, Australia
The Schrine, Melbourne, Australia
TMAG, Hobart, Tasmania



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