



Smithsonian  
*National Museum of American History*  
*Kenneth E. Behring Center*

## General Electric NELA Park Collection

NMAH.AC.0789

Alison L. Oswald and Harold Wallace

May 2003

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## Collection Overview

<b>Repository:</b>	Archives Center, National Museum of American History
<b>Title:</b>	General Electric NELA Park Collection
<b>Identifier:</b>	NMAH.AC.0789
<b>Date:</b>	circa 1890s-1969
<b>Extent:</b>	5 Cubic feet (22 boxes)
<b>Creator:</b>	General Electric Company Gotti, Mary Beth Information, Technology and Society, Div. of (NMAH, SI).
<b>Language:</b>	English
<b>Summary:</b>	The collection documents the technology of lighting and various business aspects of the General Electric Lighting Division throughout the 20th century and consists of correspondence, bulletins, price lists, business record books, stock certificates, sales and advertising materials, scrapbooks, photographs, and lantern slides.

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## Administrative Information

### Acquisition Information

The collection was donated to the Division of Information Technology and Society (now the Division of Work and Industry) by Mary Beth Gotti, Manager of the General Electric Lighting Institute on March 22, 2001.

### Provenance

The collection was transferred from the Division of Information Technology and Society to the Archives Center in October, 2001.

### Separated Materials

The Division of Work and Industry (Electricity-related collections) hold several artifacts. See accession numbers: 33,407; 43,120; 68,492; 232,822; 1997.0388 and 1998.0231.

### Related Materials

#### **Materials in the Archives Center**

William J. Hammer Collection (AC0069)

### Processing Information

Processed by Alison L. Oswald, archivist and Harold Wallace (associate curator, May 2003).

## Preferred Citation

General Electric Nela Park Collection, dates, Archives Center, National Museum of American History, Smithsonian Institution

## Restrictions

The collection is open for research use.

Researchers must handle unprotected photographs with gloves.

## Conditions Governing Use

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## Biographical / Historical

Established in 1911, Nela Park (named for the National Electric Lamp Association) in Cleveland, Ohio, has through the present day served as both administrative headquarters and research laboratory for the development and sale of General Electric's (GE) lighting products. In the years following Thomas Edison's electric lamp invention (1879) many companies began to make and sell lighting devices. A merger of Edison Electric and Thomson-Houston Electric in 1892 created GE, which quickly grew to dominate the market. Westinghouse and several much smaller companies struggled to compete. These smaller lamp companies could not afford engineering and research facilities on a scale comparable with those of General Electric.

The National Electric Lamp Company was organized on May 3, 1901, by Franklin S. Terry (Sunbeam Incandescent Lamp Company), and Burton G. Tremaine, H. A. Tremaine and J. Robert Crouse (all from Fostoria Bulb and Bottle Company and Fostoria Incandescent Lamp Company). Terry suggested that the small companies band together to operate an engineering department, conduct lamp research and development, improve manufacturing methods, and build better lamp-making machinery. He further proposed to raise capital from and share patents with GE. This built upon an earlier organization, the Incandescent Lamp Manufacturers Association, organized by GE in 1896. The new National Electric Lamp Company was a holding company in which—unknown even to many of the smaller companies' executives—GE held a controlling (75%) interest. In 1911, GE's involvement with National became public during anti-trust proceedings. GE then purchased the outstanding stock and absorbed the smaller companies by converting them into divisional units.

Thomas Edison had, in 1882, moved his company's lamp manufacturing operation from the Menlo Park laboratory to a new facility in East Newark (Harrison), New Jersey. Named the Edison Lamp Works, this plant became the main administrative and sales facility for Edison Electric's and later GE's, lamp business. Research moved to Edison's new West Orange laboratory. In 1900, after the merger, GE established a research lab in Schenectady, New York. After forming National, Terry and B. G. Tremaine consolidated the administrative functions of that company in Cleveland and by 1910 were actively seeking space for a new office and laboratory campus. They selected a site along Euclid Avenue that was then on the outskirts of town. This became Nela Park (the "Company" had changed to "Association" in 1906). In addition to the National buildings, GE began moving its directly-owned lamp operations to Cleveland after the 1911 settlement. From 1925 through 1930 the various departments at Harrison moved to Nela Park, with the sales department being one of the last to move. GE's lighting research was carried out at both Nela Park and Schenectady.

A focal-point at Nela Park is the GE Lighting Institute, formerly known as the Nela School of Lighting. Organized by the Illuminating Engineering Section of the Engineering Department in 1921, the Lighting Institute continues to train sales people and customers in the use and proper application of various lighting products.

For additional information about Nela Park, General Electric and the National Electric Lamp Company see:

Arthur A. Bright, Jr., *The Electric Lamp Industry*, MacMillan, 1949.

Harold C. Passer, *The Electrical Manufacturers, 1875-1900*, Harvard University Press, 1953.

Leonard S. Reich, "Lighting the Path to Profit: GE's Control of the Electric Lamp Industry, 1892-1941," in *Business History Review* Vol. 66, pages 305-34.

Hollis L. Townsend, *A History of Nela Park: 1911-1957*, published by General Electric.

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## Scope and Contents

The collection consists of approximately five cubic feet of correspondence, bulletins, price lists, business record books, stock certificates, sales and advertising materials, scrapbooks, photographs, and lantern slides. The collection documents the technology of lighting and various business aspects of the GE Lighting Division throughout the twentieth century.

Series 1, Historical Background Materials, 1910-1969, contains documentation on the history of the National Electric Lamp Company and the development of the incandescent lamp. The *European Diary of 1928* is a narrative written by three General Electric employees—Samuel Doane, Chief Engineer, Joseph Kewley, Sales Manager, and George Osborn, Sales Manager. This narrative describes their business trip to Europe in the spring of 1928. It contains black-and-white photographs, menus, brochures, maps, postcards, and drawings detailing their travels in Paris, Nice, Milan, Venice, Berlin, Amsterdam, and England. The *Record of Accomplishment*, 1969, is a chronological listing (time line) of various events and/or accomplishments within General Electric.

Series 2, Executive Records, 1903-1955, consists of correspondence, annual reports, and technical standardization notices. The technical standardization notices were created by the Standardization Committee. This committee made decisions on how to facilitate and increase sales, improve quality, cheapen cost, and further the interests of the members of the Lamp Association. The reports cover a variety of subjects such as packing boxes, felt washers, high candle power lamps, and tabulating machines. Many of the reports contain black-and-white photographs. The *Lamp Committee Reports* seek to detail the demand for incandescent lamps and their improvements.

Series 3, House Organs, 1919-1959, contains documentation on in-house publications for General Electric. *The Stimulator*, 1919-1920, promoted "lighting profits and cemented friendliness, cooperation, progress, and quality." The *Lamp Letter*, 1947-1950, was published by the Lamp Department and dealt specifically with lamp-related issues. The *Lamp Department Bulletin*, 1947-1950, was produced for GE personnel and dealt with a variety of issues from sales to lamp types to licensing issues. The *See Better—Work Better Bulletin*, 1959, was published by the Lamp Division as a service to industrial and commercial lamp users.

Series 4, Sales and Advertising Materials, 1910-1955, includes price lists for lamps from both General Electric and other companies, manufacturers' schedules, data books, sales notebooks for sales representatives, and Edison Mazda Lamp advertising cards. The advertising cards are approximately 3" x 6" and are in color. They contain ad slogans such as "His Only Rival," "Satisfied Customer," "Edison's Dream Comes True," "Have You Electricity?" and "I like Lots of Light."

Series 5, NELA School of Lighting Records, 1920-1930, documents the school, now known as the GE Lighting Institute, for training sales people and customers in the proper application of various lighting products. The records contain quarterly reports and general and lighting course descriptions.

Series 6, Business and Stock Records, 1890-1912, contains record and minute books and stock certificates from other lamp companies. The record books contain correspondence, resolutions, stockholder information, and committee reports.

Series 7, Scrapbooks and Photographs, 1890s-circa 1950, contains one scrapbook from 1923 with black and white photographs, clippings, correspondence, charts, telegrams, and booklets documenting General Electric's Nela Park location. The photo albums contain black and white photographs of staff, lamps, bulbs, tubing, tabulating, filaments, lead wires, stems, mounts, and lighting installations. The scrapbook and photo albums have indices.

Series 8, Lantern Slides, 1880-1950, consists of glass plates of Edison, images of people in the work place, and lighting equipment.

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## Arrangement

The collection is arranged into eight series.

### **Series 1, Historical Background Materials, 1910-1969**

#### **Series 2, Executive Records, 1903-1955**

Subseries 1.1, Correspondence, 1909-1922

Subseries 1.2, Annual Reports, 1949-1955

Subseries 1.3, Technical Reports, 1903-1935

Subseries 1.4, Standardization Committee, 1903-1908

Subseries 1.5, Lamp Committee, 1909-1935

### **Series 3, House Organs, 1919-1959**

#### **Series 4, Sales and Advertising Materials, 1914-1953**

Subseries 4.1, Miniature Mazda Lamps, 1914-1935

Subseries 4.2, Large Mazda Lamps, 1914-1934

Subseries 4.3, Carbon Lamps, 1915-1922

Subseries 4.4, Miscellaneous, 1914-1953

### **Series 5, NELA School of Lighting, 1920-1930**

#### **Series 6, Business and Stock Records, 1890-1912**

Subseries 1, Business Records, 1890-1912

Subseries 2, Stock Records & Certificates, 1890-1912

Series 7, Scrapbooks and Photographs, 1890s-circa 1950

Series 8, Lantern Slides, 1880-1950

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## Names and Subject Terms

This collection is indexed in the online catalog of the Smithsonian Institution under the following terms:

Subjects:

- Electric lighting
- Electricity

Types of Materials:

- Advertisements
- Blotters (writing equipment)
- Business records
- Diaries -- 19th century
- Diaries -- 20th century
- Lantern slides
- Manuals
- Photographs -- 19th century
- Scrapbooks
- Stereographs
- Stock certificates
- Travel diaries

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## Container Listing

### Series 1: Historical Background Materials, 1910-1969

Box 1, Folder 1	<i>History of the National Electric Lamp Company, 1910</i>
Box 1, Folder 2	<i>History of the Development of the Incandescent Lamp, 1910 (pages 3-33)</i>
Box 1, Folder 3	<i>History of the Development of the Incandescent Lamp, 1910 (pages 34-69)</i>
Box 1, Folder 4	<i>History of the Development of the Incandescent Lamp, 1910 (pages 70-112)</i>
Box 1, Folder 5	Recollections of F.S. Terry about National Electric Lamp, 1925
Box 1, Folder 6	National Electric Light Association Handbook, 1928
Box 1, Folder 7	European Diary, 1928 March 17 to 1928 May 25
Box 1, Folder 8	Record of Accomplishment, circa 1969

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## Series 2: Executive Records, 1903-1955

### Subseries 2.1: Correspondence, 1909-1922

*Box 2, Folder 1*

### Subseries 2.2: Annual Reports, 1949-1955

*Box 2, Folder 2*

### Subseries 2.3: Technical Reports, 1903-1935

### Subseries 2.4: Standardization Committee, 1903-1908

Box 2, Folder 3            Technical Standardization Notices, 1903-1904

Box 2, Folder 4            Technical Standardization Notices, 1905-1906

Box 2, Folder 5            Technical Standardization Notices, 1907-1908

### Subseries 2.5: Lamp Committee, 1909-1935

Box 2, Folder 6            National Electric Light Association, Report of the Lamp Committee, 1909-1935

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## Series 3: House Organs, 1919-1959

Box 3, Folder 1	<i>The Stimulator</i> , Volume 8, 1919 September-1920 August
Box 3, Folder 2	<i>Lamp Letter</i> , 1947
Box 3, Folder 3	<i>Lamp Letter</i> , 1948
Box 3, Folder 4	<i>Lamp Letter</i> , 1949
Box 3, Folder 5	<i>Lamp Letter</i> , 1950
Box 3, Folder 6	<i>Lamp Department Bulletin</i> , 1947
Box 3, Folder 7	<i>Lamp Department Bulletin</i> , 1948
Box 3, Folder 8	<i>Lamp Department Bulletin</i> , 1949
Box 3, Folder 9	<i>Lamp Department Bulletin</i> , 1950
Box 3, Folder 10	See <i>Better—Work Better</i> , Index, 1959
Box 3, Folder 11	See <i>Better—Work Better</i> , 1959

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## Series 4: Sales and Advertising Records, 1914-1953

### Subseries 4.1: Miniature Mazda Lamps, 1914- 1935

Box 4, Folder 1	Price lists, 1918-1923
Box 4, Folder 2	Price lists, 1924-1936
Box 4, Folder 3	Intermediate price lists, 1918-1923
Box 4, Folder 4	Manufacturers schedule, 1934-1935
Box 4, Folder 5	Data books, 1914-1917
Box 4, Folder 6	Data books, 1919-1930

### Subseries 4.2: Large Mazda Lamps, 1914-1934

Box 5, Folder 1	Price lists, 1918-1926
Box 5, Folder 2	Price lists, 1920-1934
Box 5, Folder 3	Standard and intermediate prices, 1927-1934
Box 5, Folder 4	Manufacturers schedules, 1921-1923
Box 5, Folder 5	Regular price schedules, 1917-1918
Box 5, Folder 6	Data books on large Mazda and GEM lamps, 1914-1917
Box 5, Folder 7	Intermediate price schedules for large Mazda and Gem lamps, 1917-1922

### Subseries 4.3: Carbon Lamps, 1915-1922

Box 6, Folder 1	Data book of miniature carbon lamps, 1916-1918
Box 6, Folder 2	Data book of large carbon lamps, 1915-1922

### Subseries 4.4: Miscellaneous, 1914-1953

Box 6, Folder 3	Bracket and center span fixtures for Mazda lamps, 1914 (price list)
Box 6, Folder 4	Data book of standard specifications, 1915-1919

Box 6, Folder 5	Engineering data on lamps, 1914-1924
Box 6, Folder 6	Data book for new fixtures and fittings, 1914
Box 6, Folder 7	Manufacturing sales data book, 1914-1918
Box 6, Folder 8	Price lists for miscellaneous lamps, 1925-1936
Box 6, Folder 9	Chronological list of lamp prices, 1914-1939 and 1947-1953
Box 7, Folder 1	"How to Succeed as a Mazda Lamp Merchant," 1917
Box 7, Folder 2	Sales plan, 1937
Box 7, Folder 3	[S.E. Doanes?] pocket sales notebook, circa 1910
Box 7, Folder 4	R.B. Walling sales notebook, circa 1940
Box 7, Folder 5	<i>Edison Mazda Lamp Auto Lamp Blue Book</i> , 1925
Box 7, Folder 6	Independent Lamp and Wire Company, price list, 1914-1917
Box 7, Folder 7	Laco Lamps, data, price lists, and <i>Mazda Lamp Catechism</i> , 1920-1922
Box 7, Folder 8	National Electric Lamp Association, 1910
Box 7, Folder 9	Sunbeam Incandescent Lamp Company, price list, 1910
Box 7, Folder 10	General Electric incandescent lamp data book, 1911
Box 8, Folder 1	War production lighting, 1942
Box 8, Folder 2	General Electric Mazda lamp advertising cards, circa 1905-1935
Box 8, Folder 2	112 Mazda B His Only Rival
Box 8, Folder 2	112-5 Mazda B His Only Rival
Box 8, Folder 2	113 Edison GEM Satisfied Customer, 1905
Box 8, Folder 2	116 Edison GEM Ring, 1905

Box 8, Folder 2	3094-2 Mazda A if you can get it...
Box 8, Folder 2	3951 Mazda A Twixt a diamond...
Box 8, Folder 2	3952 Mazda A magnifies
Box 8, Folder 2	3836 Mazda A The GE Tungsten
Box 8, Folder 2	3837 Mazda A The GE Tungsten <a href="#">Image(s)</a>
Box 8, Folder 2	179-2 Mazda B Edison Day
Box 8, Folder 2	109 Mazda B Edison's dream comes true
Box 8, Folder 2	109-7 Mazda B Edison's dream comes true
Box 8, Folder 2	115-3 Mazda B You have seen this...
Box 8, Folder 2	214 Mazda B Century's progress
Box 8, Folder 2	232 Mazda B Economy...meter
Box 8, Folder 2	213 Mazda B beyond the socket
Box 8, Folder 2	172 GE Have you electricity...?
Box 8, Folder 2	206 Mazda B Sunshine at her fingertips
Box 8, Folder 2	224 Mazda C create windows...
Box 8, Folder 2	153 Mazda flamingo dancer
Box 8, Folder 2	178 Mazda My doctor said...
Box 8, Folder 2	920 Mazda Lessons are learned...
Box 8, Folder 2	923 Mazda Light up...for cheerfulness
Box 8, Folder 2	928 Mazda I like lots of light <a href="#">Image(s)</a>
Box 8, Folder 2	212 Mazda B Open wide the gateway...

Box 8, Folder 2	177 Mazda B Constant delight
Box 8, Folder 2	230-2 Mazda B Bear in mind
Box 8, Folder 2	231 Mazda B California's native sun
Box 8, Folder 2	240 Mazda B California's native sun
Box 8, Folder 2	142 Mazda B This is a reproduction...
Box 8, Folder 2	207-2 Mazda C This is a reproduction...
Box 8, Folder 2	150 Mazda B Do you know the difference...?
Box 8, Folder 2	LaCo Lamps
Box 8, Folder 2	CS-327 Sunbeam Mazda Mays Electric Shop <a href="#">Image(s)</a>
Box 8, Folder 2	220 Mazda A lamp in reserve
Box 8, Folder 2	Y-1177 Edison Mazda Box of 5
Box 8, Folder 2	147 Signs Suppose you had a loadstone
Box 8, Folder 2	148 What do you think of electric signs?
Box 8, Folder 3-4	Electrical advertising, 1919-1928
Box 8, Folder 5	Experimental House, 1934 and Lighting Institute, circa 1940s (brochures)
Box 20, Folder 3	General Electric fluorescent lamps...Why They Are Such Big Value? circa 1955 (advertising book)

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## Series 5: NELA School of Lighting Records, 1920-1930

Box 9, Folder 1	"The Lighting Business," 1929
Box 9, Folder 2	Quarterly reports, 1920-1921
Box 9, Folder 3	Quarterly reports, 1922-1923, 1925
Box 9, Folder 4	General course, 1927
Box 9, Folder 5	General course, 1928
Box 9, Folder 6	General course, 1929-1930
Box 9, Folder 7	Home lighting, 1927
Box 9, Folder 8	Home lighting, 1928-1929

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## Series 6: Business and Stock Records, 1890-1912

### Subseries 6.1: Business Records, 1890-1912

- Box 10                      Buckeye Electric Company, Minute book, 1890 February 11-1912 April 11
- Box 11                      Columbia Incandescent Lamp Company, Record book, 1890 January 4-1912  
June 28
- Box 12                      National Electric Lamp Company, Record book, 1901 May 2-1912 August 1

### Subseries 6.2: Stock Records and Certificates, 1890-1912

- Box 15, Folder 1            Blank stock certificates, undated
- Box 15, Folder 1            Aladdin Electric Company  
[Image\(s\)](#)
- Box 15, Folder 1            American Electric Lamp Company
- Box 15, Folder 1            Anaero Bottle & Glass Specialty Company
- Box 15, Folder 1            Banner Electric Company
- Box 15, Folder 1            Bryan Marsh Company
- Box 15, Folder 1            Buckeye Electric Company  
[Image\(s\)](#)
- Box 15, Folder 1            Cleveland Gas & Electric Fixture Company  
[Image\(s\)](#)
- Box 15, Folder 1            Columbia Electric Company
- Box 15, Folder 1            Columbia Incandescent Lamp Company
- Box 15, Folder 1            Conneaut Company
- Box 15, Folder 1            Dixie Warehouse Company
- Box 15, Folder 1            Eagle Lamp Company
- Box 15, Folder 1            Economical Electric Lamp Company



Box 15, Folder 1	Economy Electric Company
Box 15, Folder 1	Federal Miniature Lamp Company <a href="#">Image(s)</a>
Box 15, Folder 1	Fostoria Bulb & Bottle Company <a href="#">Image(s)</a>
Box 15, Folder 1	Fostoria Glass Specialty Company
Box 15, Folder 1	Fostoria Incandescent Lamp Company
Box 15, Folder 1	General Incandescent Lamp Company
Box 15, Folder 1	Jaeger Miniature Lamp Manufacturing Company
Box 15, Folder 1	Marlborough Electric Machine & Lamp Company
Box 15, Folder 1	Moline Incandescent Lamp Company
Box 15, Folder 1	Monarch Incandescent Lamp Company
Box 15, Folder 1	Munder Electric Company
Box 15, Folder 1	National Electric Lamp Company
Box 15, Folder 1	Nela Company
Box 15, Folder 1	New York and Ohio Company
Box 15, Folder 1	Rhode Island Glass Company
Box 15, Folder 1	Shelby Electric Company <a href="#">Image(s)</a>
Box 15, Folder 1	Standard Electric Manufacturing Company
Box 15, Folder 1	Sterling Educational Manufacturing Company
Box 15, Folder 1	Sunbeam Incandescent Lamp Company
Box 15, Folder 1	Tantalum Electric Lamp Company

[Image\(s\)](#)

Box 15, Folder 1	Tungsten Electric Lamp Company <a href="#">Image(s)</a>
Box 15, Folder 1	Tungstolier Company
Box 15, Folder 1	Warren Electric and Specialty Company <a href="#">Image(s)</a>
Box 15, Folder 2	Bryan Marsh Company, 1893 November 18-1912 March 23
Box 15, Folder 3	Colonial Electric Company, 1899 September 25-1912 February 17
Box 13, Folder 1	Columbia Incandescent Lamp Company, 1890 January 25-1912 February 12
Box 13, Folder 2	Shelby Electric Company, 1898 April 12-1908 July 20
Box 14, Folder 1	Sunbeam Incandescent Lamp Company, 1900 March 31-1910 February
Box 14, Folder 2	Sunbeam Incandescent Lamp Company, 1892 April 22-1900 March 31
Box 15, Folder 4	Warren Electric & Specialty Company, 1895 July 27-1902 February 10

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## Series 7: Scrapbooks and Photographs, 1890s-circa 1950

Box 16, Folder 1-3	Scrapbook, 1911-1923 <a href="#">Image(s)</a>
Box 17, Folder 1-5	Photo album #1, circa 1890s-1930s
Box 17, Folder 6-13	Photo album #2, circa 1890s-1930s
Box 18, Folder 1-8	Photo album #3, circa 1890s-1930s
Box 19	Photo album #4, circa 1890s-1930s
Box 16, Folder 4-6	Photo album of Lighting Institute, circa 1950
Box 20, Folder 1-2	Photo album of Fremont, circa 1905

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## Series 8: Lantern Slides, 1880-1950

Box 21	#20, Portrait of Thomas Edison, undated
Box 21	#51-120572, National Mazda automotive lamp display, undated
Box 21	#9, Long-Legged Mary-Ann Generator, undated
Box 21	#22-11 Long-legged Mary-Ann Generator, undated
Box 21	Reproduction Edison Lamp, undated
Box 21	#5, Thomas Edison and workers in Menlo Park Lab, undated
Box 21	#19, Thomas Edison in lab, circa 1930
Box 21	#7G5, Women in office, undated
Box 21	#7G4, Woman in office, undated
Box 21	#7G15A, Office lighting, undated
Box 21	#7G15B, Office lighting, undated
Box 21	#7G15C, Office lighting (with fluorescent luminaries?), undated
Box 21	#24C5, Exterior parking lot lighting, circa 1950
Box 21	#22A48A, Fluorescent store lighting, 1940s
Box 21	#6F28, Interior factory lighting, undated
Box 21	#6E7, Interior factory lighting, undated
Box 21	#6F29A, Fluorescent interior commercial lighting, undated
Box 21	#6F29, Fluorescent interior commercial lighting, undated
Box 21	#7C5, Fluorescent office lighting, undated
Box 21	#7C72, Incandescent office lighting, undated
Box 21	#6T11C, Interior lighting in a laboratory, fluorescent room and task, undated

Box 21 #6T10A, Lighting a machine (with PAR lamps?), undated

Box 21 #10L25A, Interior commercial lighting a jewelry store, undated

Box 21 #10M30C, Boston shoe store, circa 1905

Box 21 #10M31C, Boston shoe store, circa 1930

Box 21 #10521B, Fluorescent lighting in a paint store, undated

Box 21 #10535, Retail lighting, undated

Box 21 #6B21HC, Interior factory lighting, undated

Box 21 #2A, Fluorescent lighting in a lab, undated

Box 21 #6B6, Interior factory lighting, undated

Box 21 #22C2, Interior factory lighting (Cooper-Hewitt tubes?)

Box 21 #6J2A, Interior factory lighting, fluorescent task lighting, undated

Box 21 #6J2B, Interior factory lighting, fluorescent area lighting, undated

Box 21 #22C3, Shop lighting, fluorescent lamps, undated

Box 21 #22C4, Factory lighting, undated

Box 21 #6P9A, Factory lighting "before," undated

Box 21 #6P9B, Factory lighting "after," undated

Box 21 #6N1, "Before" lighting in heavy industry, undated

Box 21 #6N2, "Later" lighting in heavy industry, undated

Box 21 #6N3, "After" lighting in heavy industry, undated

Box 21 #6K1, Fluorescent shop lighting, undated

Box 21 #22C1, Factory lighting, undated

Box 21 #24P1, Exterior post-luminary, circa 1930s

Box 21 #51-60-739, Lighting in a car wash, circa 1911

Box 21 #12, Auto-lighting test-car, undated

Box 22 #10, Control panel of lighting test-car, undated

Box 22 #11, Mounting lamps on lighting test-car, undated

Box 22 #11, Comparison of carbon, tantalum and Mazda B lamps, undated

Box 22 GEM Lamp, 1909

Box 22 First Tipless Meridian Lamp, 1906

Box 22 Tungsten 1907 Vacuum Lamp, undated

Box 22 #6D1, B17 production of incandescent lamps, undated

Box 22 #3C, Exterior view Boeing Stratocruiser in flight, undated

Box 22 #7, Aircraft interior, circa 1944

Box 22 #4A8, 75kw lamp, undated

Box 22 #1-10088, Exterior of Lighting Research Institute at Nela Park, undated

Box 22 #3, Thomas Edison, circa 1880

Box 22 #10, Painting of Langmuir, Whitney, and Coolidge, undated

Box 22 #24N1, Incandescent pole lighting at a service station, undated

Box 22 #7B34B, Two women in an office, undated

Box 22 #9A31A, Schoolroom lighting, undated

Box 22 #9A46, Schoolroom lighting, undated

Box 22 #9A100A, Schoolroom lighting, undated

Box 22 #9A100, Schoolroom lighting, undated

- Box 22 #7G2, Women in office, incandescent [secretarial pool?], undated
- Box 22 #7G3, Women in office, fluorescent, undated
- Box 22 #7D23, Office lighting, fluorescent, undated
- Box 22 #10521A, "Before" view of the paint store, incandescent, undated
- Box 22 #16, Thomas Edison and the 50kw lamp, 1929
- Box 22 #15, Interior residential lighting, undated
- Box 22 #14, Residential interior lighting [bare bulb], circa 1900
- Box 22 #13, [Hotel?] interior lighting, circa 1950
- Box 22 #12, Interior bedroom lighting, circa 1900
- Box 22 #11, [Bathroom?] Lighting, undated
- Box 22 #10, Interior residential lighting, circa 1900
- Box 22 #9, Residential kitchen lighting, undated
- Box 22 #8, Duplicate of #10, undated
- Box 22 #7, Woman greeting a caller, [circa 1880?]
- Box 22 #6, Playing cards by kerosene lamp, undated
- Box 22 #5, Kid in cookie jar by oil lamp, undated
- Box 22 #4, Pilgrims lighting an oil lamp, undated
- Box 22 #3, Candle light in the Middle Ages, undated
- Box 22 #2, Lighting an oil lamp in the Greco-Roman era, undated
- Box 22 #1, Ancient with a stone oil lamp, undated

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