IES SF Education
2015 Spring Seminars
Lighting & Urban Placemaking
Part 1 - How Light Drives Urban Vitality

AIA
Urban Land Institute
Light is Fire
All in a Day’s Work

2000 BC - 10 minutes

Today - 20,000 hrs.
Equal R Value
Lighting Leads

• Lighting makes the infrastructure of human life possible
• Lighting was dormant in the 20th century. LEDs are the awakening
• IOT is the real revolution: Lighting is the backbone of the Smart City
Providing Security
Symbolizing Order
Fueling Competition
Powering Spectacle
Driving Nocturnalization
Creating Beauty & Vitality
Migration of Light from Private to Public

1000

1200

1500

1600

1780

1840- Gas

1880- Electric
Experiential Light Plan
Creating Safety
Extending Markets
Driving Growth
Impact of Electric Light on Growth in Paris

1803

1840 - Gas Lighting

1880 - Electric Lighting

1887

1895

1928
Enabling Trade & Transport
Driving Energy Networks
A PEEP AT THE GAS LIGHTS IN PALL-MALL.
INCANDESCENT GAS LIGHT
(NEW & IMPROVED SYSTEM)
ELECTRIC LIGHT SURPASSED.
All the advantages of Electric Light and none of its drawbacks.

ELECTRIC GAS LIGHTING
H.S. Norrie

Welsbach
Light
Inverted Arc Lamp, Fig. 623.

Storm Proof
For Exterior Lighting.

Welsbach-Kern
(Patent) Inverted System

BRITISH MADE.

Width over all.
1-light 1 ft. 8 in.
2-light 1 ft. 4 in.
3-light 1 ft. 2 in.
4-light 1 ft. 0 in.
5-light 1 ft. 8 in.
6-light 1 ft. 4 in.

Height over all.
1-light 1 ft. 8 in.
2-light 1 ft. 4 in.
3-light 1 ft. 2 in.
4-light 1 ft. 0 in.
5-light 1 ft. 8 in.
6-light 1 ft. 4 in.

All on or off. One light on and the rest off, 7s. per Lamp extra. Cup and Bell, 3s. 6d. per Lamp extra.

RENEWALS.
Glass Mantle Protectors (Fig. 623) 3d. 4d. per dozen, or in case lots of 3 gross, 33s. 6d. per gross.

The Welsbach Incandescent Gas Light Co., Ltd.
Welsbach House, 344-354, Gray's Inn Road, London, W.C.
THE ALTERNATING SYSTEM.

Incandescent Electric Lighting from Central Stations made Universal, Economical, and Profitable, irrespective of distance.

The Westinghouse Electric Co.,
PITTSBURGH, PA.
Eastern Office, 17 CORTLANDT STREET, NEW YORK.
Driving Markets - Advertising
Global Warming
Cities are Greener

Comparative Annual Energy Use per Housing Type

<table>
<thead>
<tr>
<th>HOUSEHOLD TYPE</th>
<th>Transportation</th>
<th>Household</th>
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<tr>
<td>Suburban Single Family Average</td>
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<td>80</td>
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<tr>
<td>(240)</td>
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<td>160</td>
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<tr>
<td>Suburban Single Family Green</td>
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<tr>
<td>(184)</td>
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<td>104</td>
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<tr>
<td>Urban Single Family Average</td>
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<tr>
<td>(143)</td>
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<td>Urban Multifamily Green</td>
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<td>(62)</td>
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<td>40</td>
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</table>
Cities that Learn
Disruption vs Balance
What Will Future Cities Feel Like?
Thank YOU

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