

LIGHTING & PLACEMAKING

PARKS & CIVIC SPACES

ARUP

INTRODUCTION ARUP

“...our lives are inextricably mixed up with those of our fellow human beings, and that there can be no real happiness in isolation...”

—Sir Ove Arup, “The Key Speech”, 1970



The Arup experience

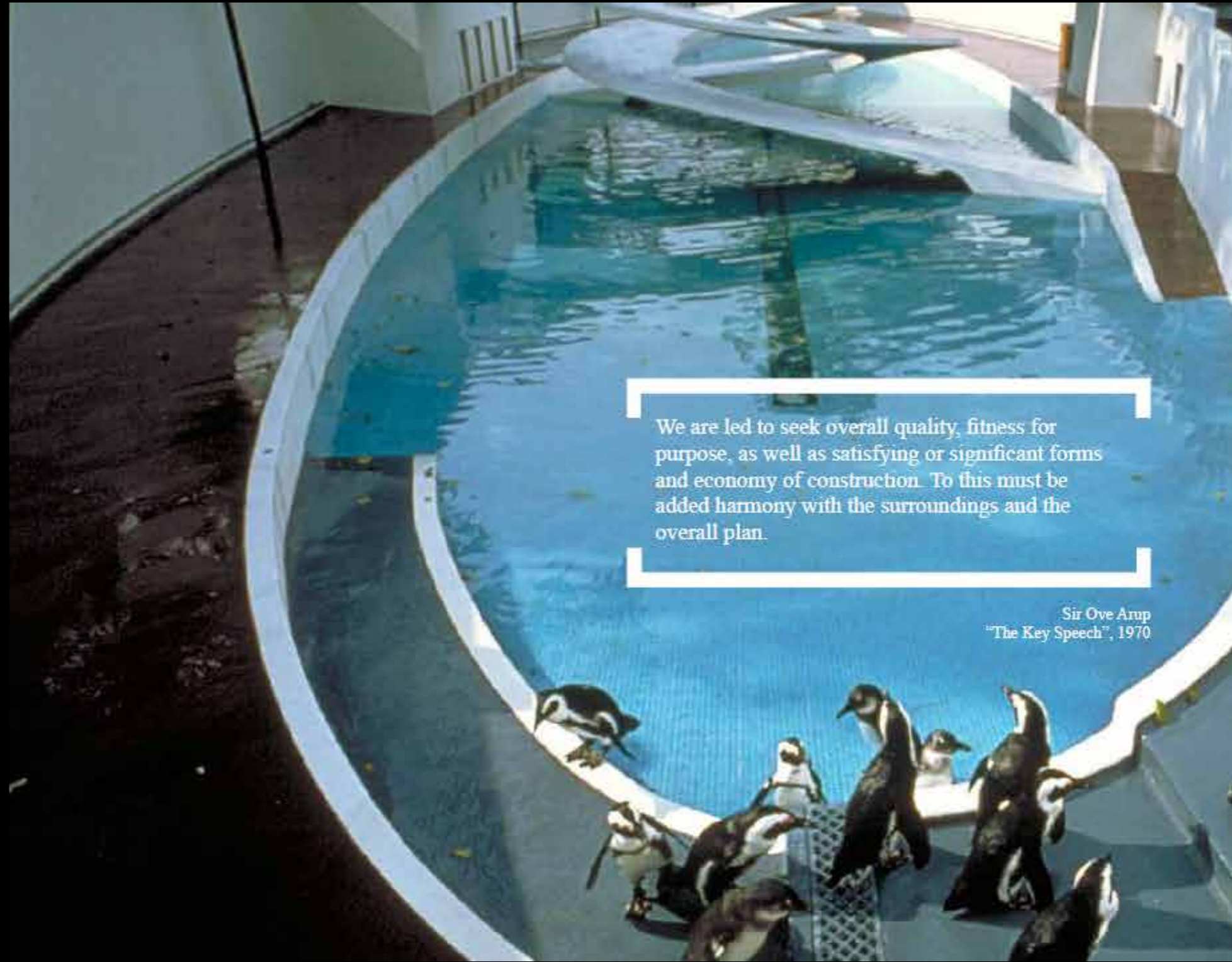
We stand alongside those who aim to serve as stewards to preserve our natural environment and evolve responsibly.

Collaboration is at the heart of the Arup design process. Working closely with Arup’s building services engineers and environmental specialists we offer tremendous advantages over the traditional approach to lighting design.

Arup delivers projects from concept to completion; we bring a great depth of experience in the delivery of major projects worldwide.

Our relationships with designers and contractors are equally important in the successful creation of a hotel. We establish a professional and proactive interaction through the quality of the design information we present to project partners.

The 1934 Penguin Pool at London Zoo, designed by Berthold Lubetkin and engineered by Ove Arup (shown above), is a Grade 1 listed icon of the Modern Movement in early 20th century architecture



We are led to seek overall quality, fitness for purpose, as well as satisfying or significant forms and economy of construction. To this must be added harmony with the surroundings and the overall plan.

Sir Ove Arup
“The Key Speech”, 1970

INTRODUCTION

ARUP



Beijing National Stadium



Morgan Library, NY

California Academy of Sciences



Ordrupgaard, Copenhagen, Denmark



Caixa Forum, Madrid, Spain



Arnolfini Gallery, Bristol, England

OLAFUR ELIASSON: THE WEATHER PROJECT

INSPIRATION

The design of spaces and the way they work are inextricably interlinked.

In cities, good design is social.

Watch and observe the way design (and light) can change the way people use places



URBAN THEORY

HOW AND WHY SPACES WORK

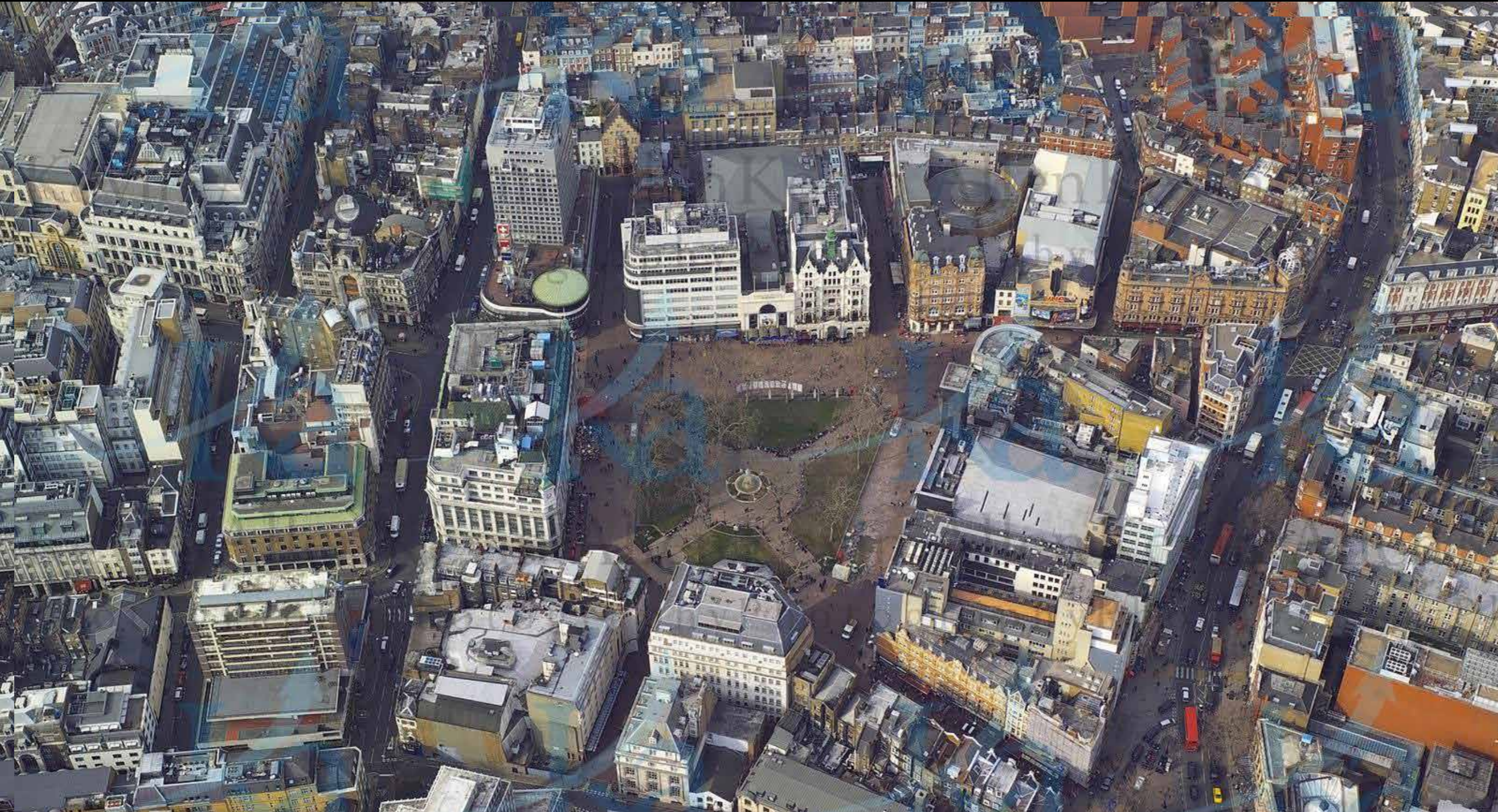


LIGHTING & PLACEMAKING

RESEARCH

CASE STUDY

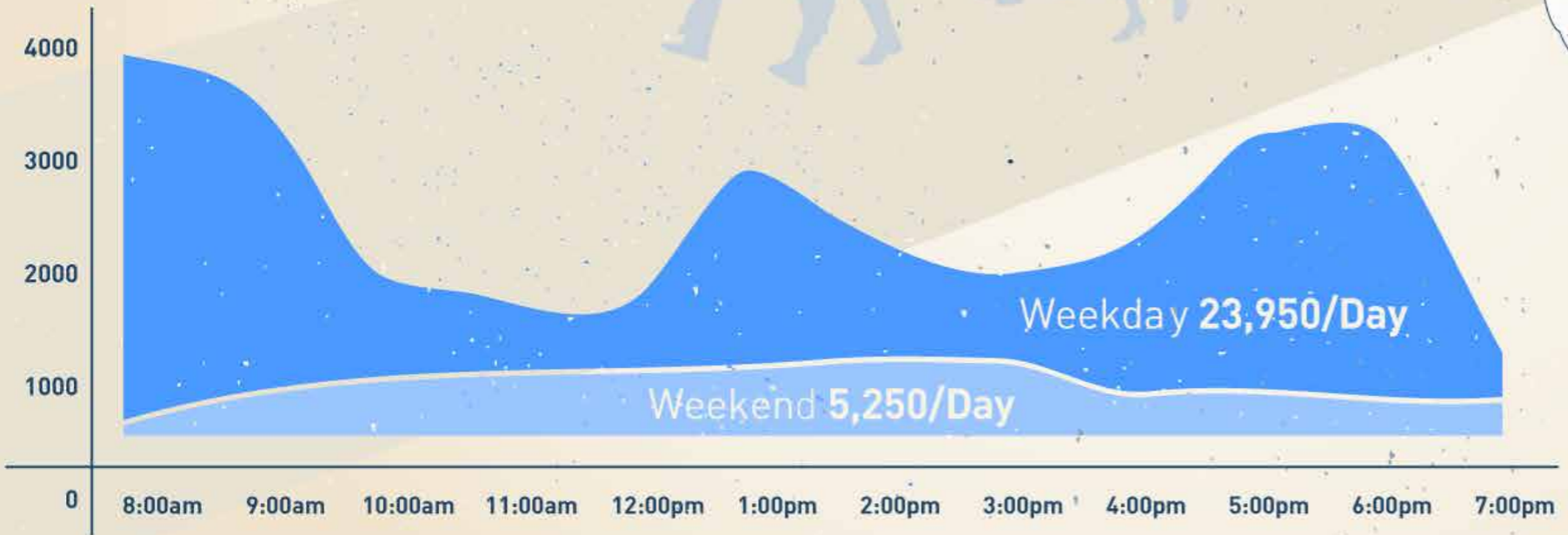
LEICESTER SQUARE, LONDON



CASE STUDY: GEHL ARCHITECTS

LEICESTER SQUARE, LONDON

Pedestrian Activity
on 53rd Street, New York



RESEARCH

LEICESTER SQUARE, LONDON



- PRODUCTION OF URBAN URBAN
- type, placement & use

- PRODUCTION OF URBAN (to any form)

- use of people
'catalyzing use'
reading
eating/dining
coffee (barista)
outdoor, friends

- DESTINATIONS - going to meetings in the square
- leaving the area - the city meets



RESEARCH

LEICESTER SQUARE, LONDON

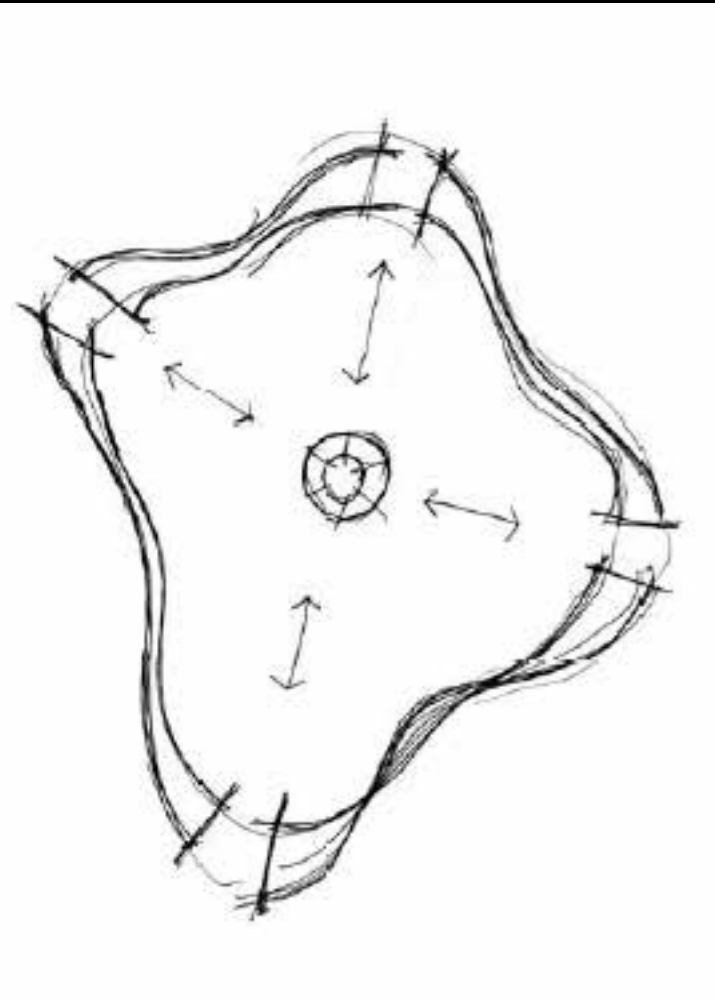


The images on these pages represent a typical methodology for an existing site analysis. This study was conducted for research into the relationship of lighting and use of space in Leicester Square, London, UK.



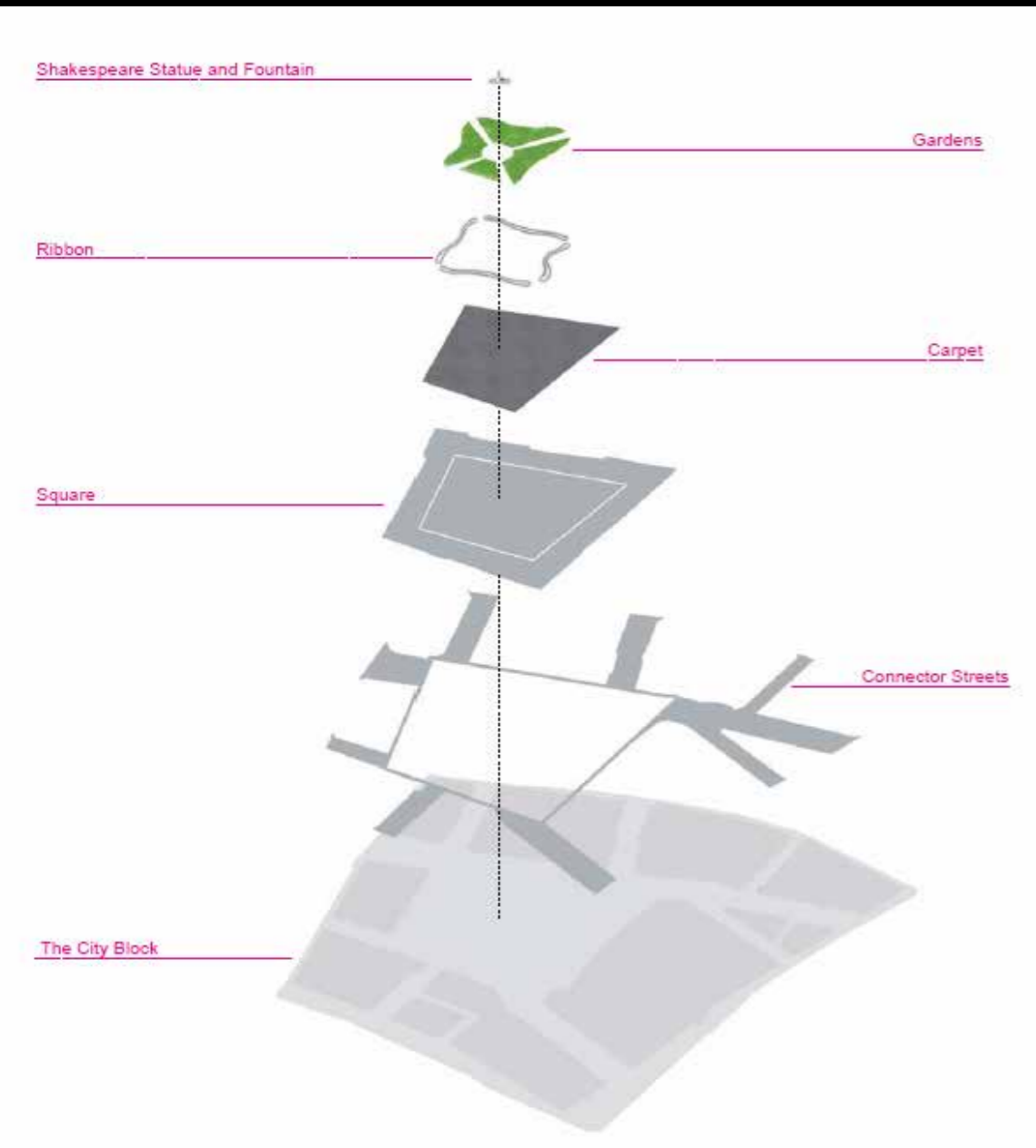
CASE STUDY: WITH BURNS + NICE

LEICESTER SQUARE, LONDON



CASE STUDY: WITH BURNS + NICE

LEICESTER SQUARE, LONDON





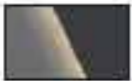
- Notes**
 Date: 23/08/07
 Time: 20:40
 Condition: Overcast / light rain
- ⊕ Column Position. ON / OFF denotes operational status.
 - ⊠ Approximate Obelisk location
 - ⊖ Approximate location of road lighting column to north of square
 - ⊖ As above but with additional asymmetric luminaire mounted to column
 - Ⓝ Illuminance measurement. Where 'n' indicates recorded value (lux).

Key

Street lighting for pedestrian safety and security



Lighting to key buildings



Threshold lighting



Pea lighting



Catenary lighting



Lighting to Ribbon



Gardens lighting



Uplighting to existing trees in the Gardens

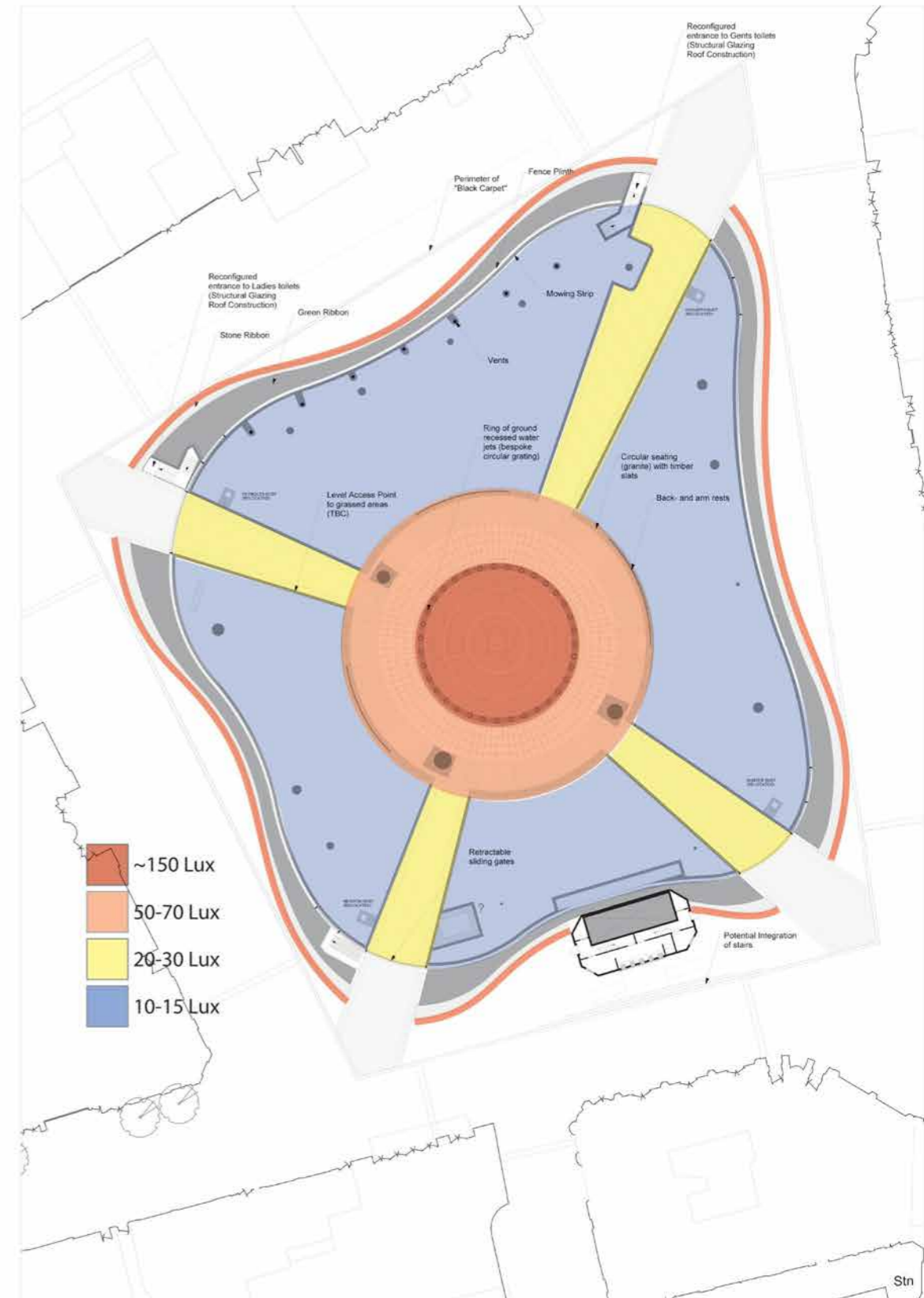


Lighting to the Shakespeare Statue and Fountain



Potential location for lighting art installation



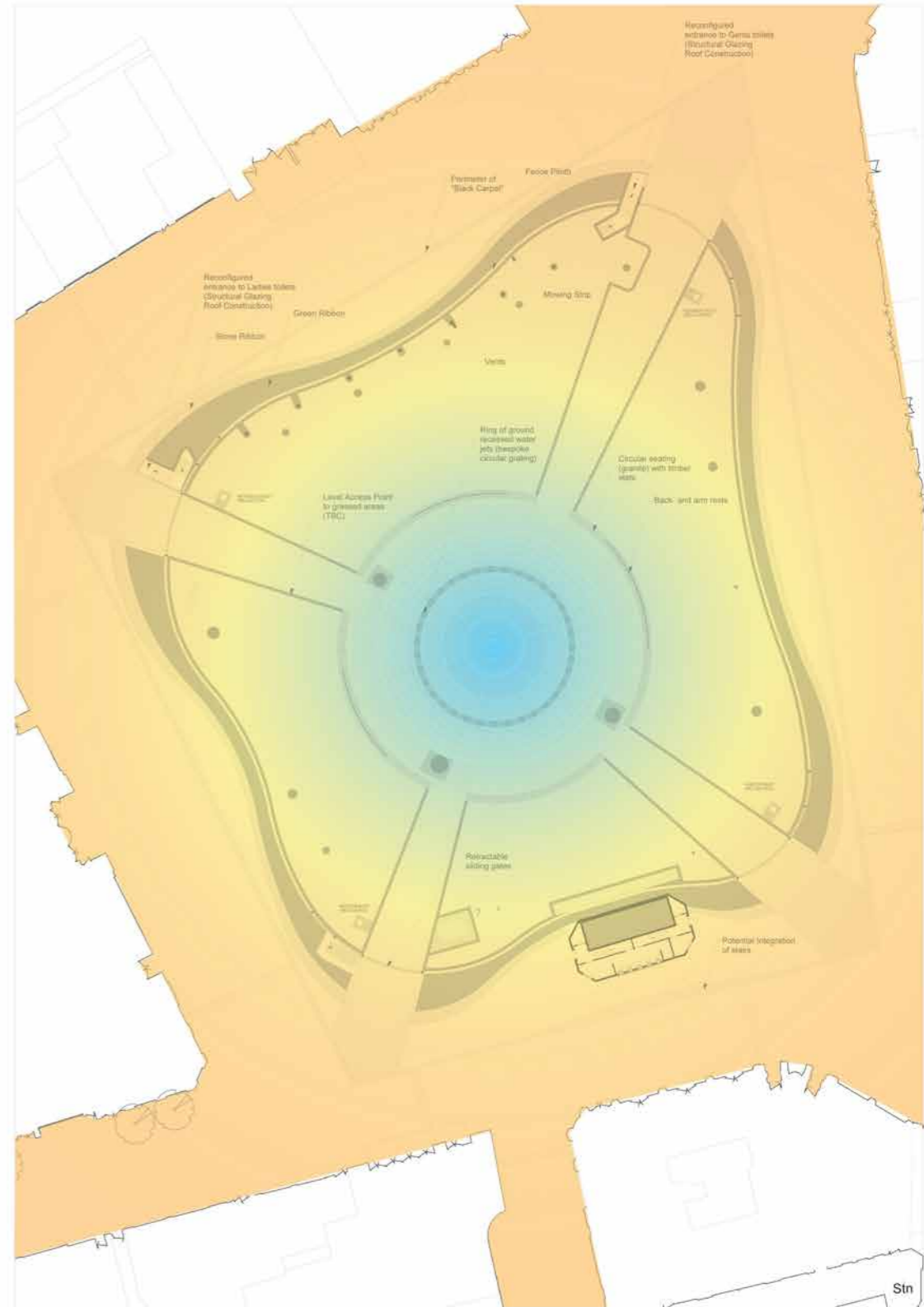


Leicester Square
Gardens_Re-design Option

General Arrangement

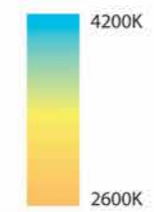
Scale 1:200

Stn

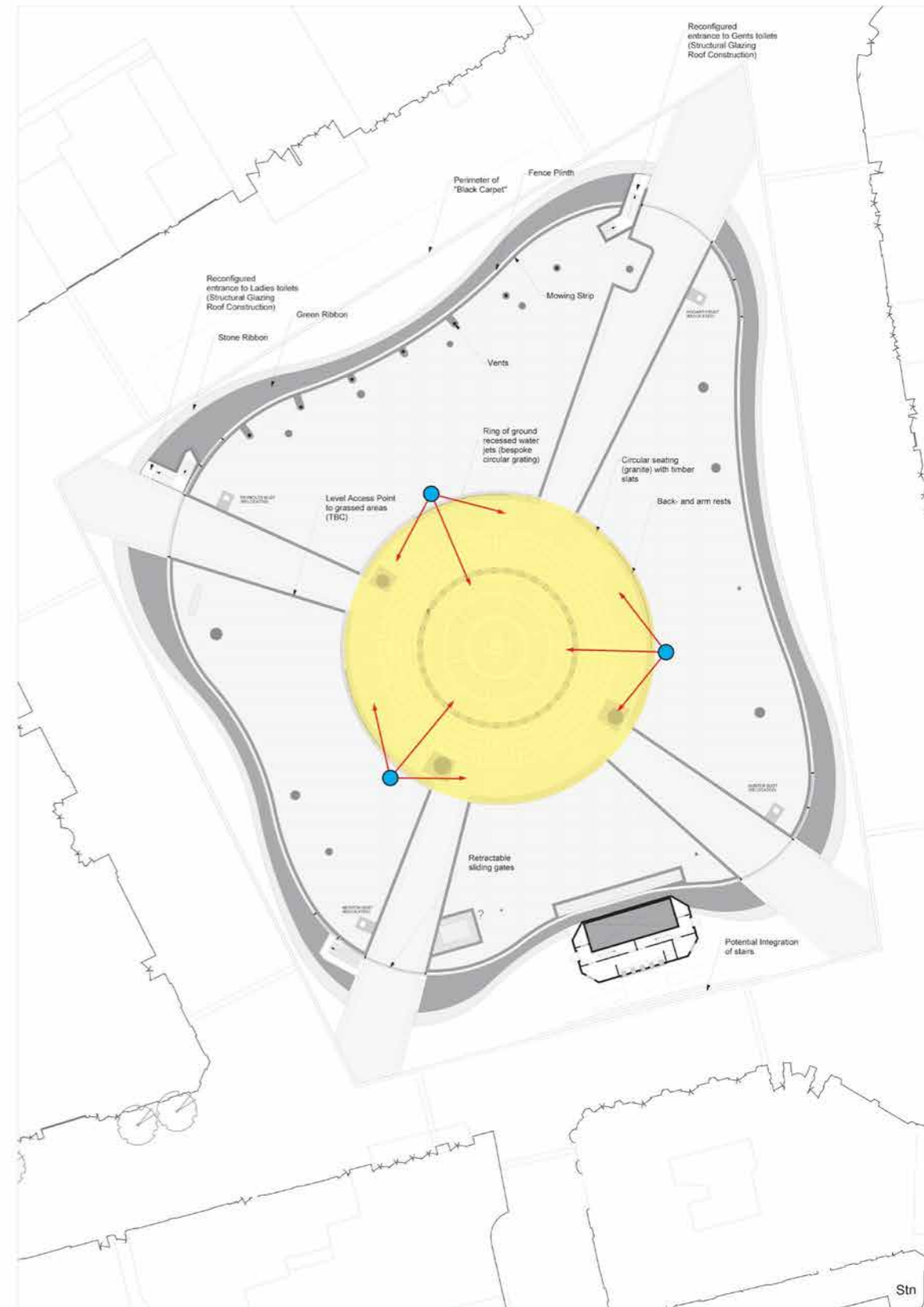


Leicester Square
Gardens_Re-design Option
General Arrangement

Colour Temperatures



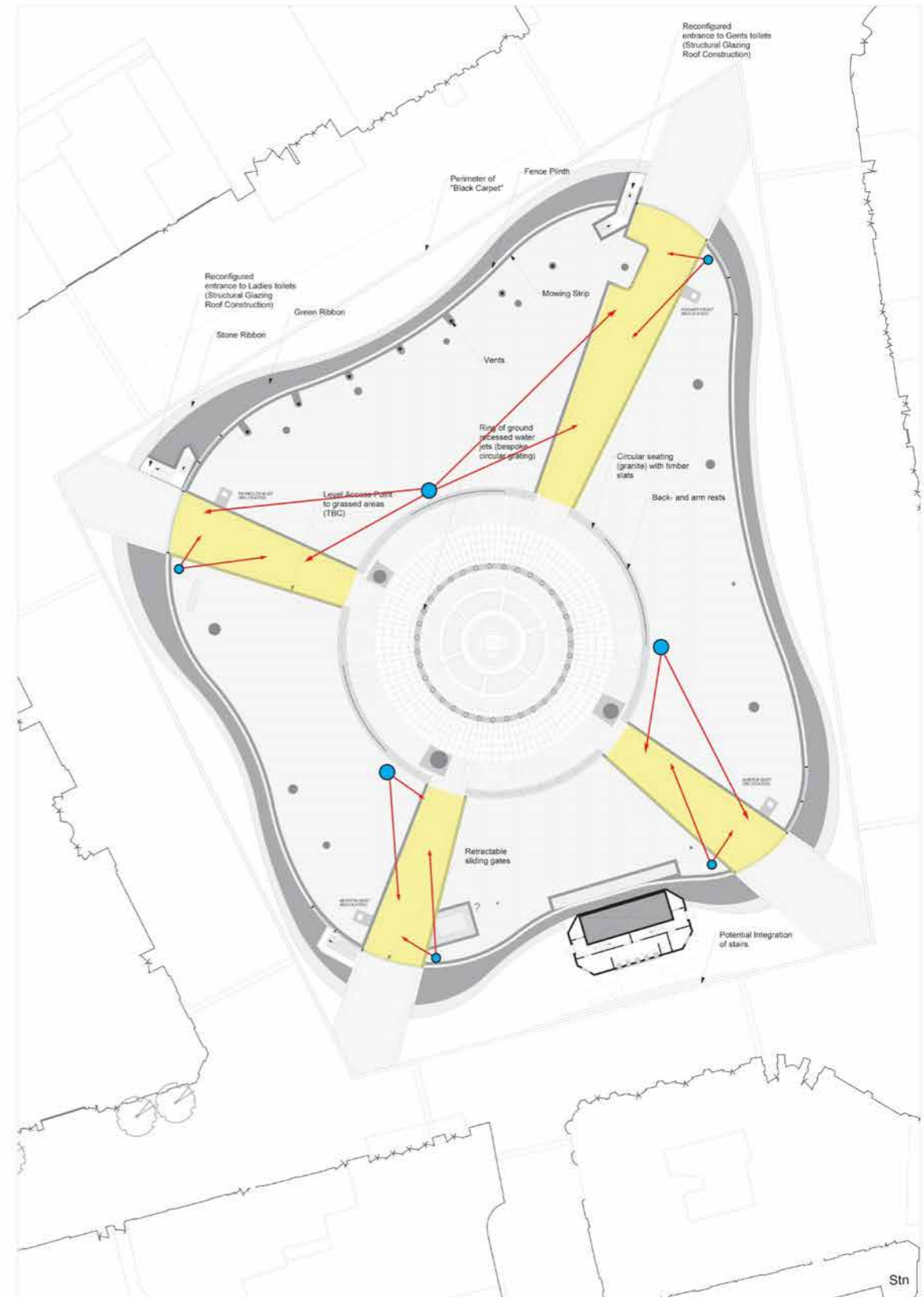
Scale 1:200



Leicester Square
Gardens_Re-design Option

Scale 1:200

General Arrangement



Leicester Square
 Gardens_Re-design Option
 General Arrangement

Scale 1:200

Stn



CASE STUDY

LEICESTER SQUARE, LONDON



CASE STUDY

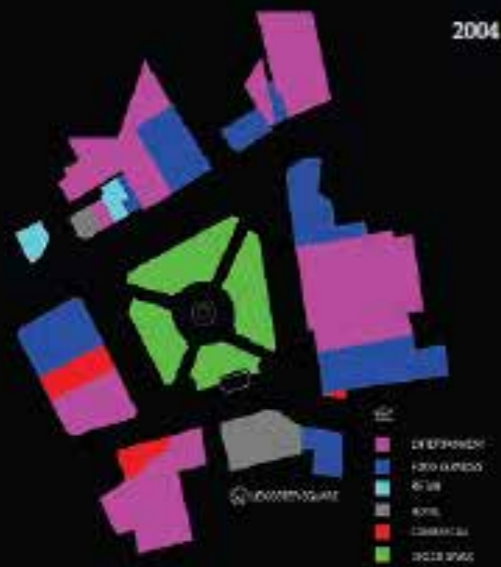
LEICESTER SQUARE, LONDON



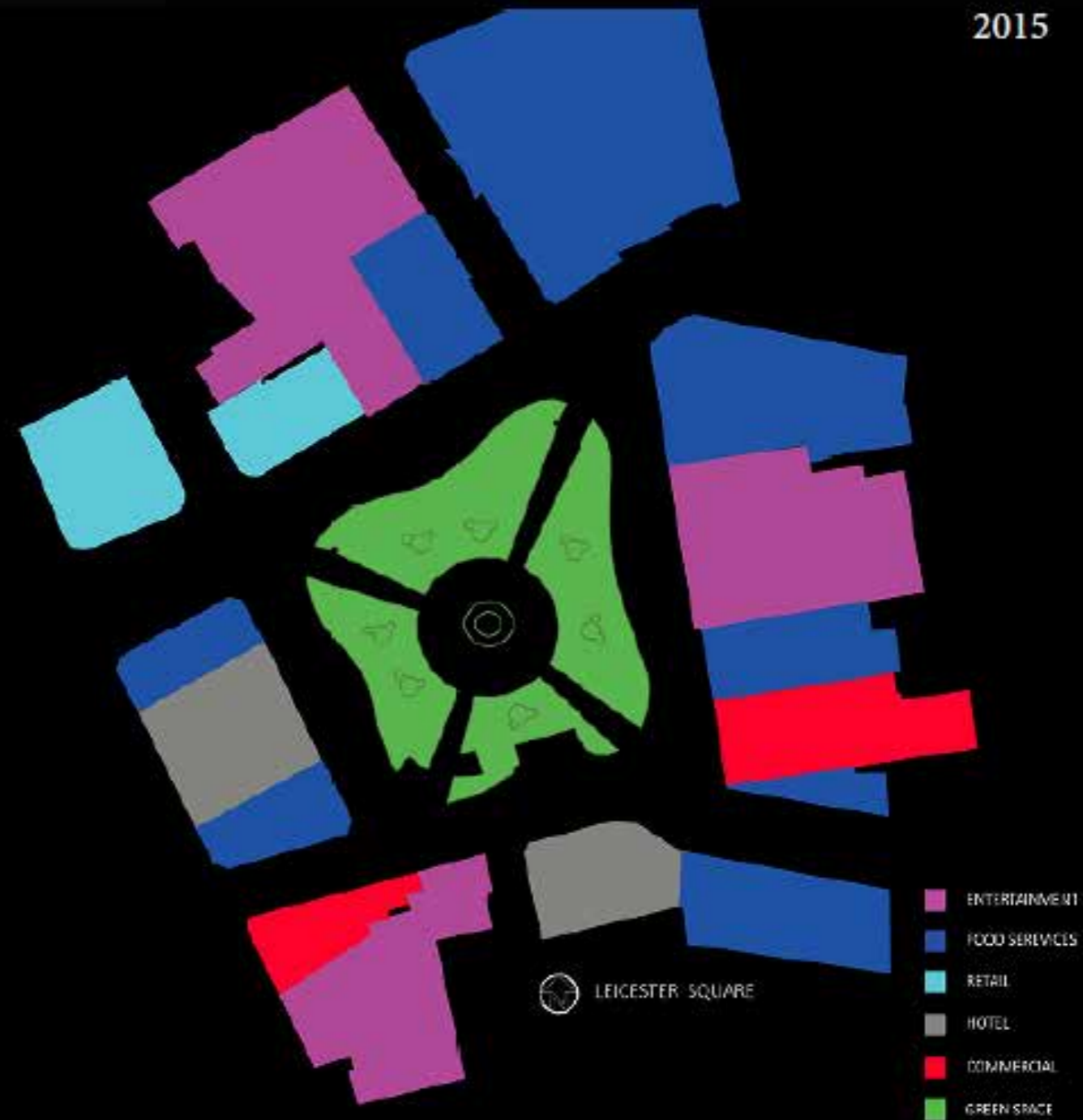
POST-LIGHTING RESEARCH

LEICESTER SQUARE, LONDON

Square Program



Present View from the Northeast Looking West



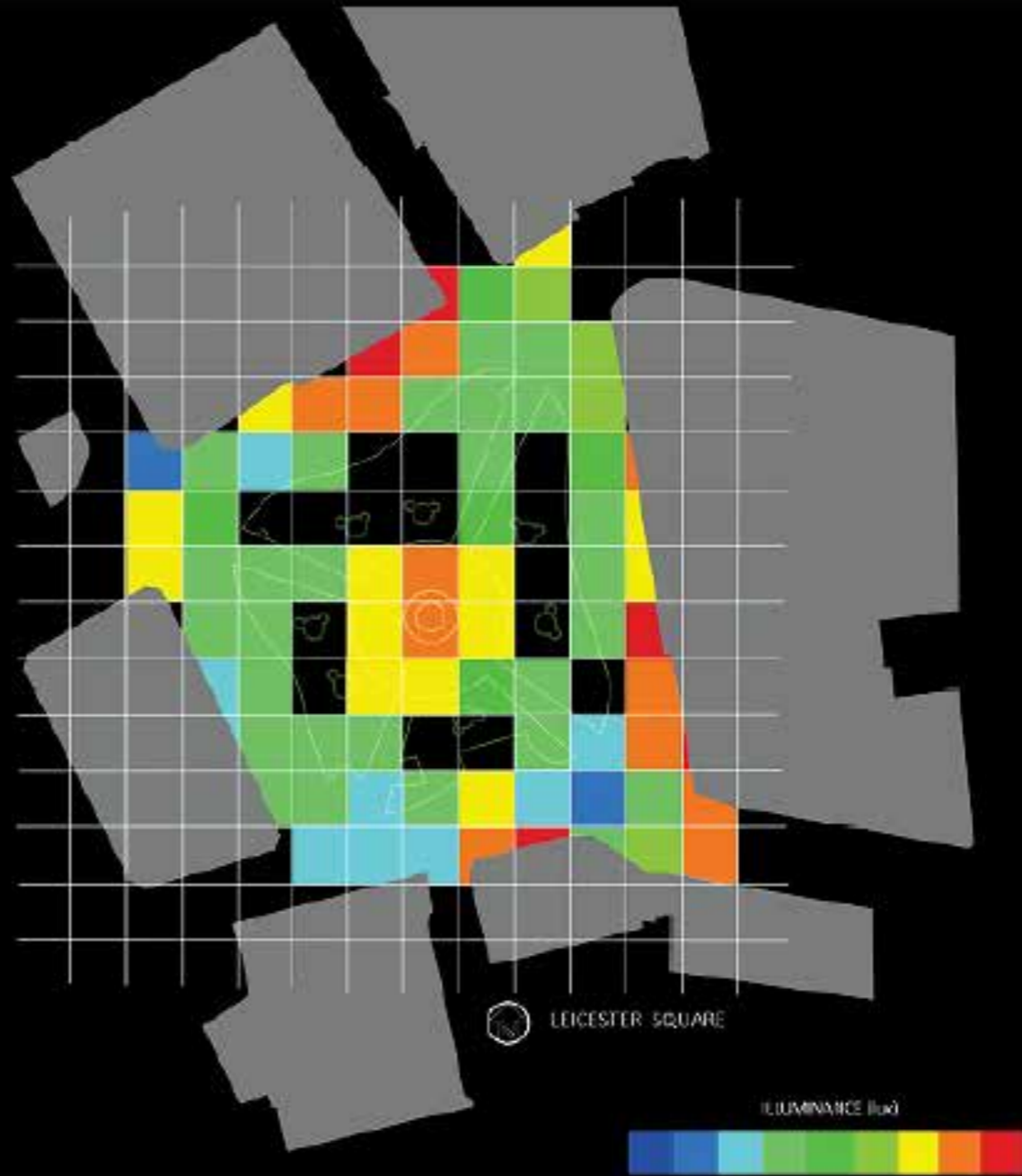
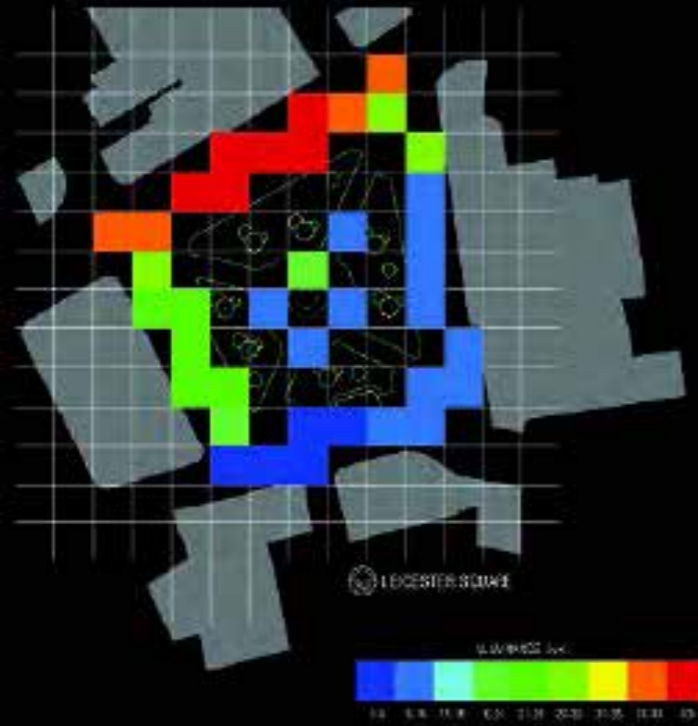
POST-LIGHTING RESEARCH

LEICESTER SQUARE, LONDON

Square Illuminance Levels

2004

2015



Present Fountain Lighting

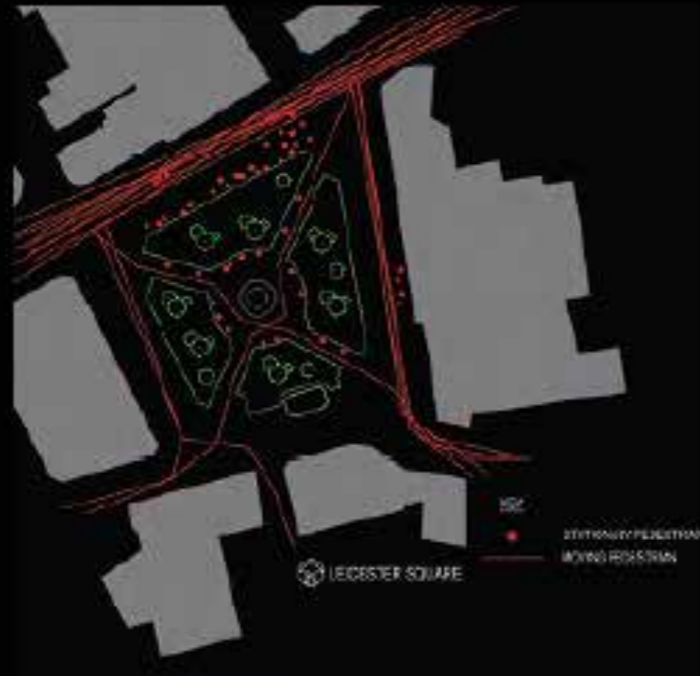
POST-LIGHTING RESEARCH

LEICESTER SQUARE, LONDON

Square Occupancy and Movement Patterns / Observational Study

2004

2015



Current Under-Bench Luminaires Welcome Pedestrians

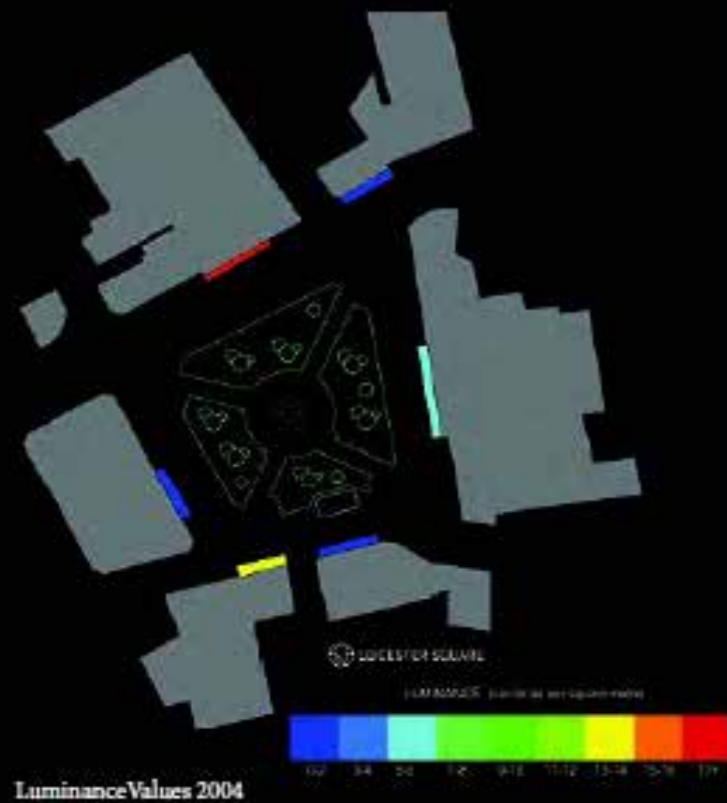
POST-LIGHTING RESEARCH

LEICESTER SQUARE, LONDON

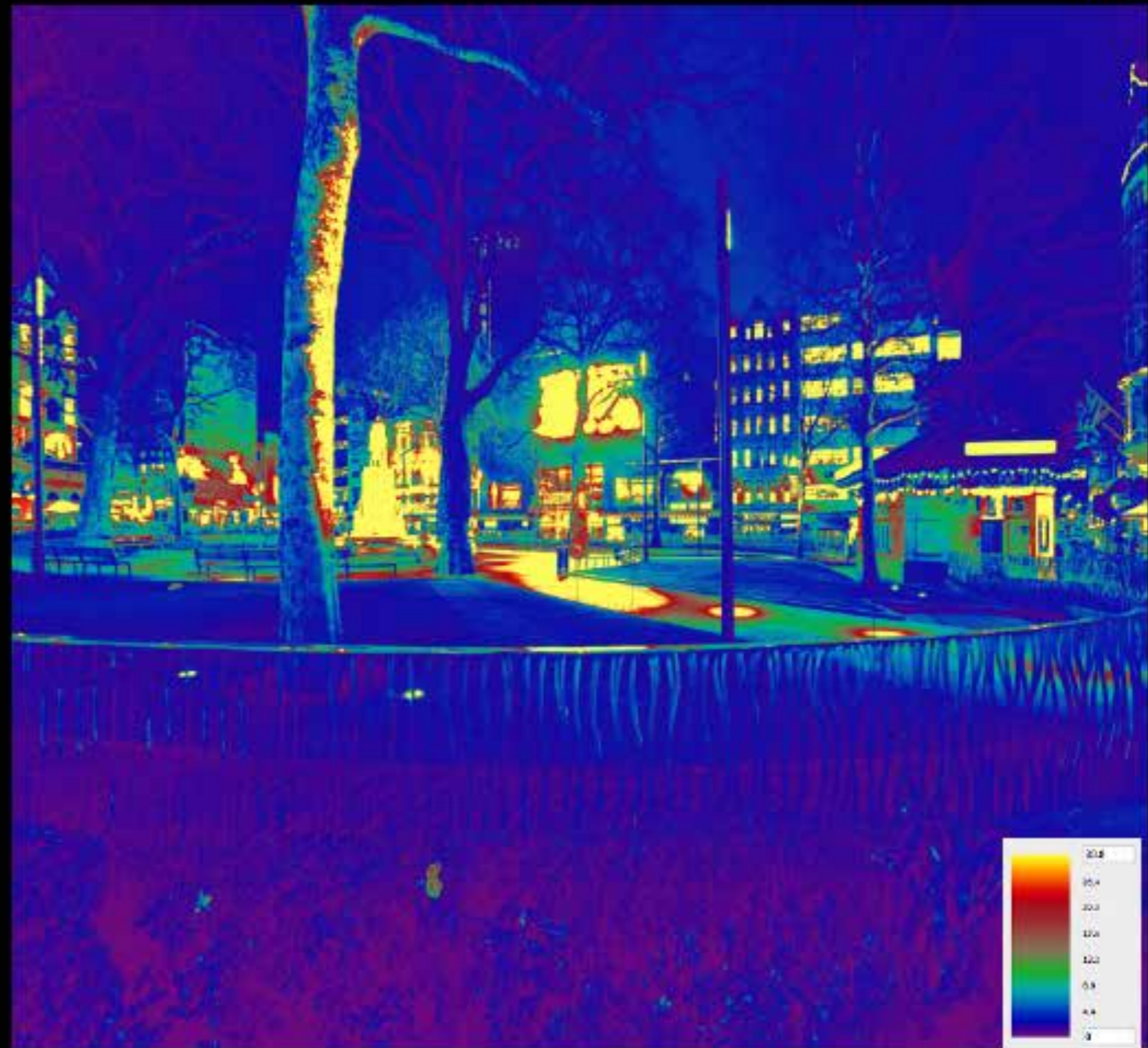
Present False Colour HDR View with Luminance Values

2004

2015



Camera Location for HDR Image (Right)



False Colour Imaging Showing Luminance Values (candelas / square meter)

CURRENT LIGHTING RESEARCH

CARTAGENA, COLOMBIA

Case Study

Getsemani district in Cartagena, Colombia

ARUP



Findeter



CONFIGURING LIGHT
shaping the social



CURRENT LIGHTING RESEARCH

CARTAGENA, COLOMBIA

SOCIAL RESEARCH FINDINGS:

DOORS AND DOORWAYS

SOCIAL HOTSPOTS

ATMOSPHERE & INFORMALITY

BAY AREA

CURRENT PROJECTS



SAN FRANCISCO: WITH CMG LANDSCAPE ARCHITECTS

UNDER RAMP PARK



SAN FRANCISCO: WITH CMG LANDSCAPE ARCHITECTS

UNDER RAMP PARK



SAN FRANCISCO: WITH CMG LANDSCAPE ARCHITECTS

UNDER RAMP PARK



SAN FRANCISCO: ARQUITECHTONICA & CMG

41 TEHAMA



SAN FRANCISCO: ARQUITECHTONICA & CMG

41 TEHAMA



SAN FRANCISCO: ARQUITECHTONICA & CMG

41 TEHAMA



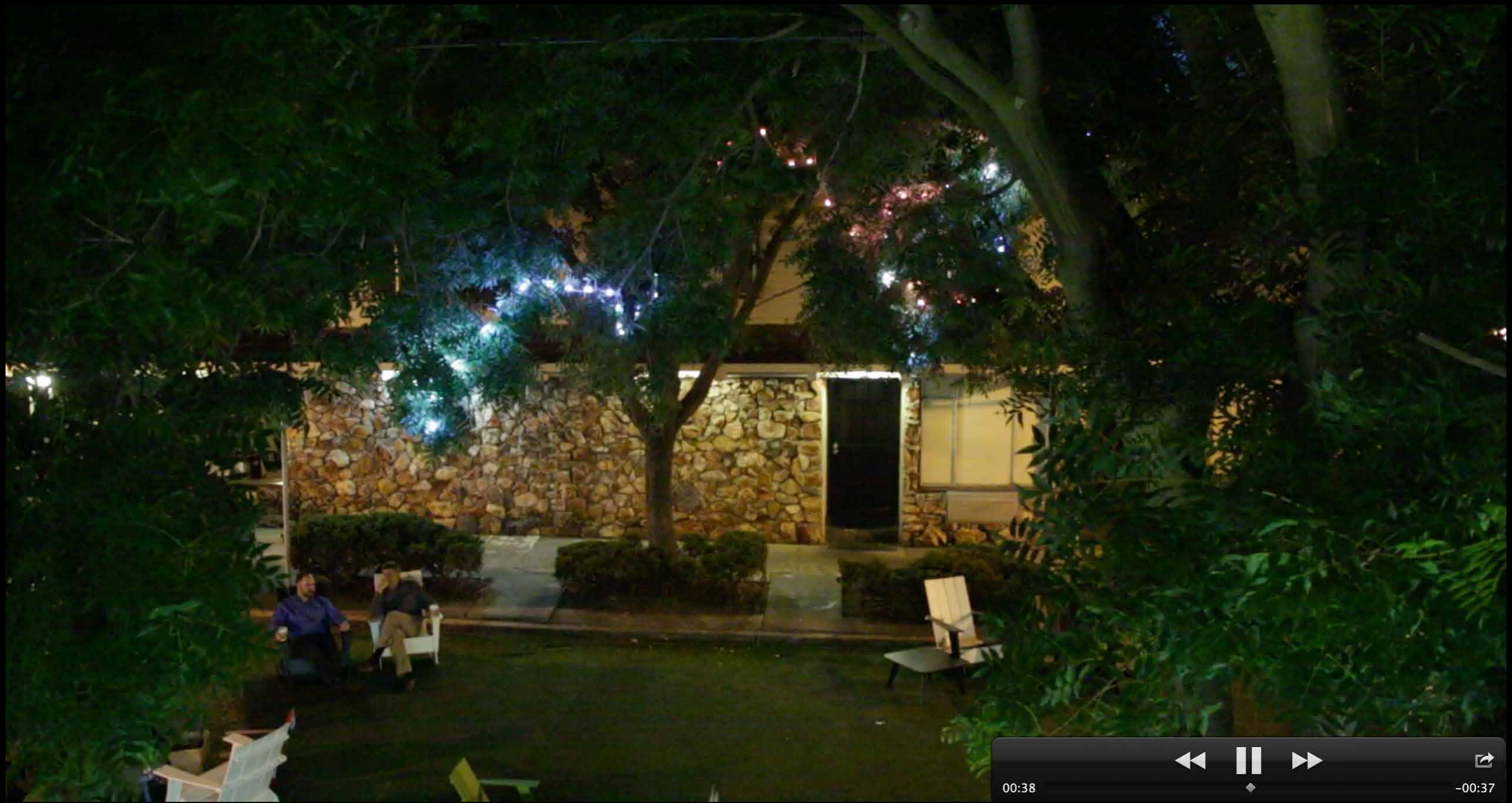
LOS ALTOS

THIRD STREET GREEN: DAY



LOS ALTOS

THIRD STREET GREEN: NIGHT



00:38



-00:37

THANK YOU!