

Content

<u>Introduction</u>

- What is lighting design
- Background lighting designers
- The design process

Case study

How to use lighting designers cost effectively

Case study KACC Dammam

Briefly explain the project, and focus on the methodology



At the end of this program, participants will be able to:

- 1.Understand what lighting designers do
- 2. What is the process of lighting design and typical deliveries per phase
- 3. How to leverage on the lighting design expertise for large projects
- 4.Be inspired by the magic that light can do for you

Lighting Design

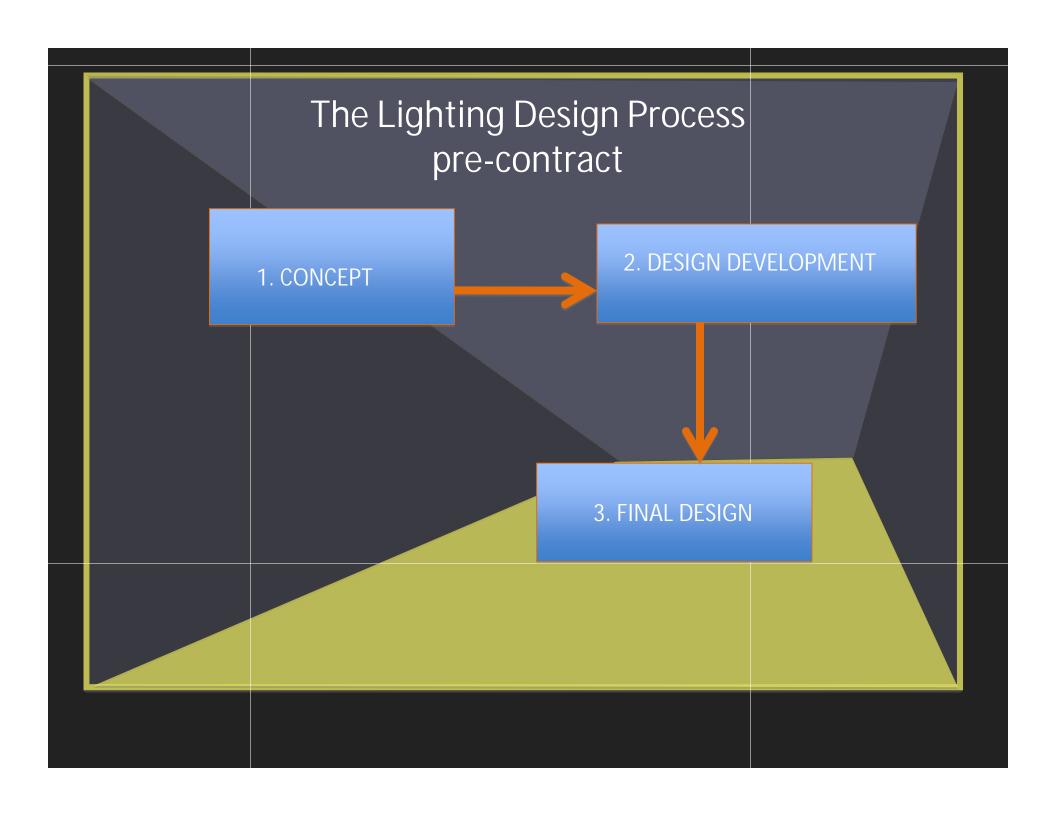
- Art &Science of creating the desired ambience with light
- Select the products and the equipment to control the light
- Producing documentation to
 - purchase the lights
 - position the lights
 - control the lights

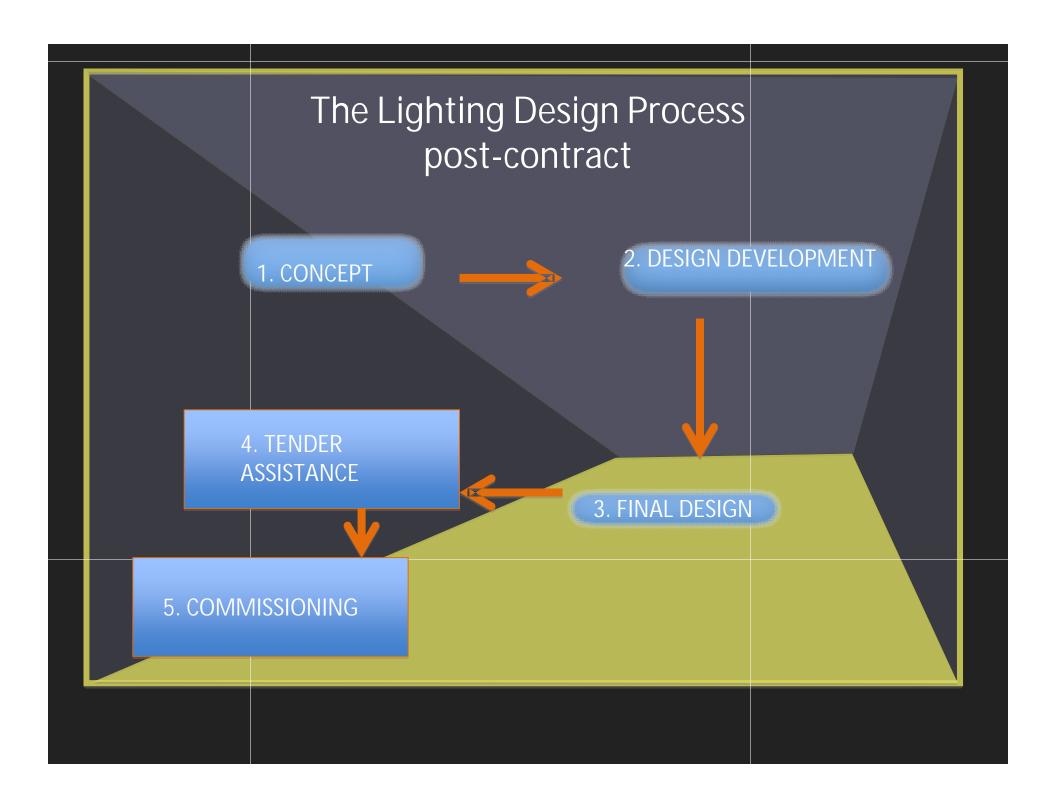


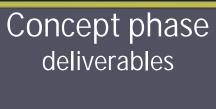


- Master degree in Science, Architecture, or Design
- 2 years Master in lighting design
- KTH, Sweden, Hochschule Wismar Germany, Bartlett school of design, London

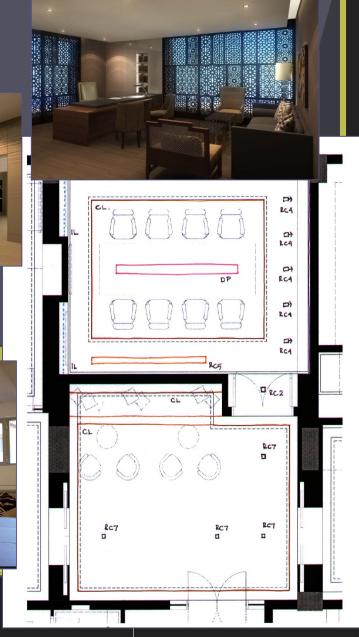
Combination of visual, physical and biologically knowledge applied to design, technology and health.







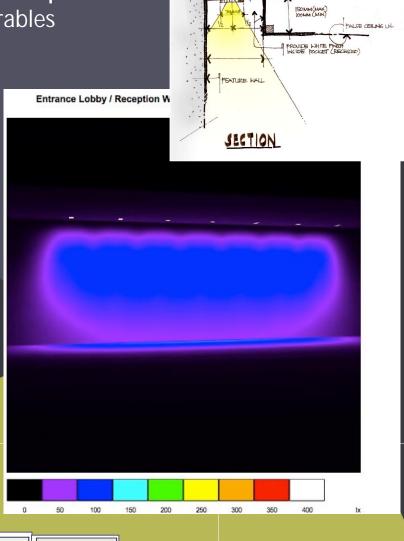
- Concept sketches
- Concept reference images
- Concept renderings
- Initial lighting layout
- Generic product selection



Design development deliverables

- Lighting Layout in cad
- Preliminary product selection
- Preliminary Budget indication
- Light calculations
- Sketches special mounting situations for structural implications







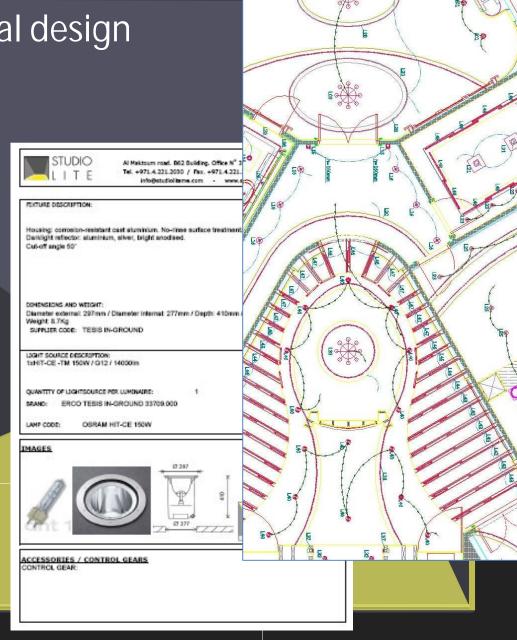






- Lighting layout.
- Fixture specification booklet
- Final budget
- Final power load
- Architectural Lighting Controls
- Detailed mounting details

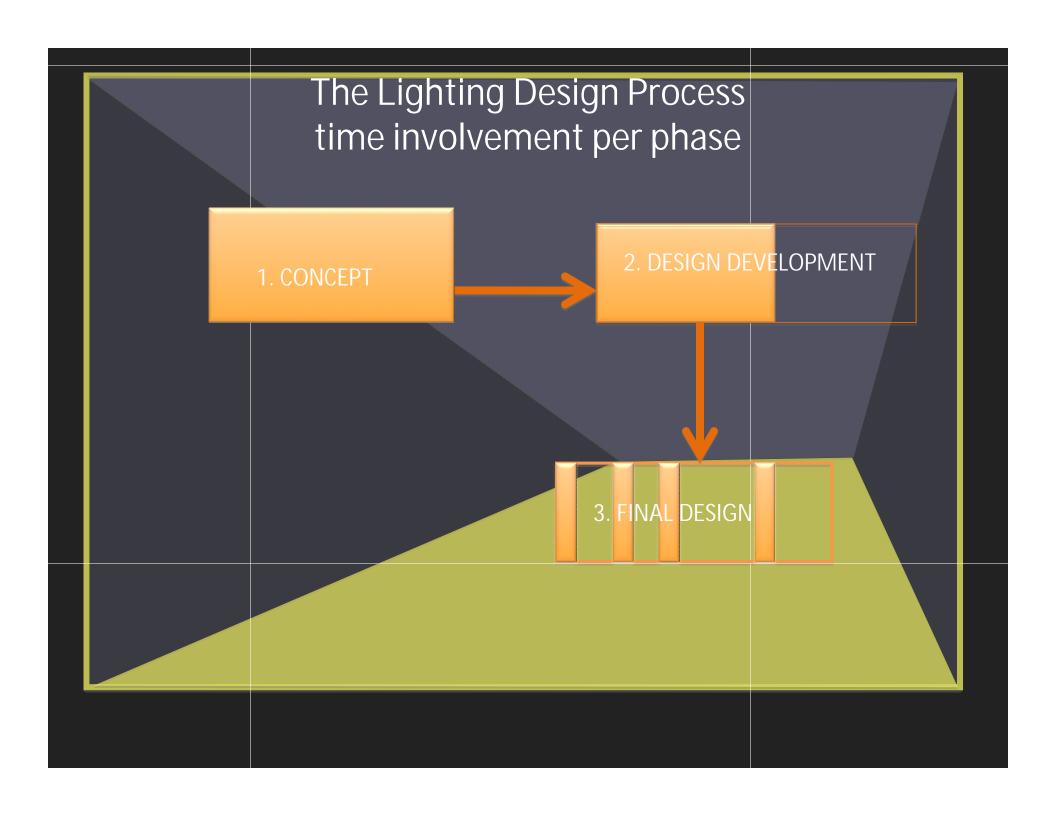


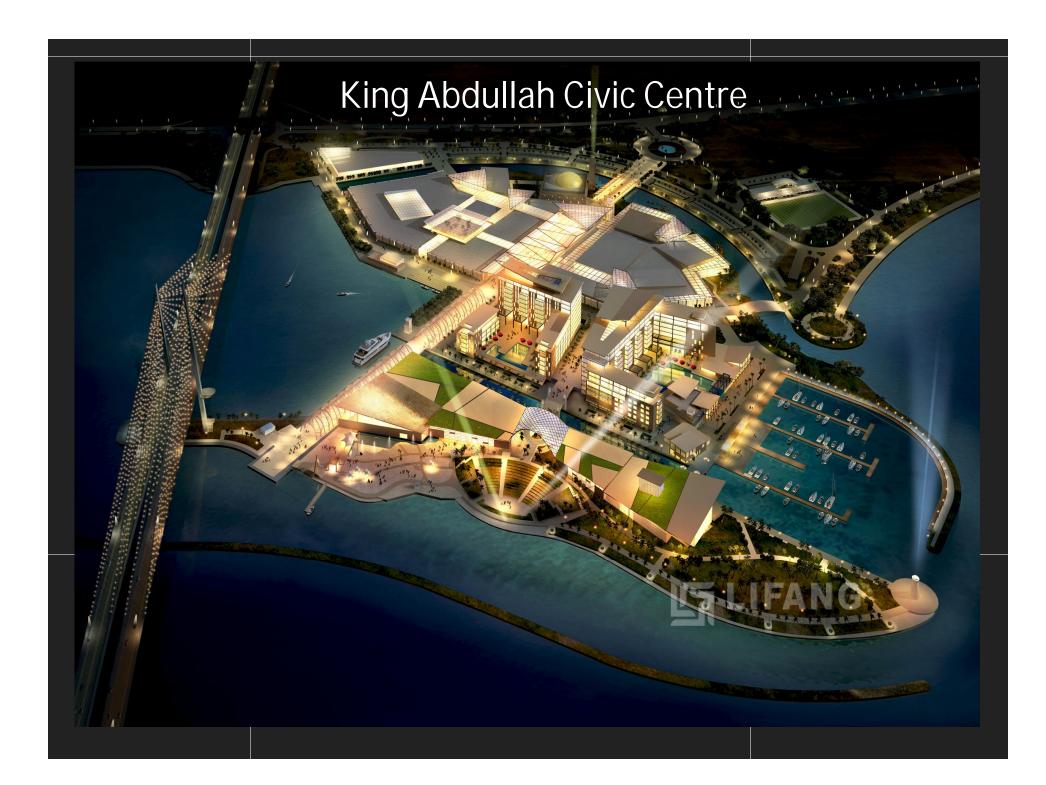


Big Developments, Big Team



- Lighting designer one of the many subcons
- Use the specialist consultants in the most critical phase
 - Concept
 - Development of design (schematic +)
- Architect develops to final design with input during workshops from the lighting designers





Methodology

PARTI

Develop overall design vision for the whole area (master vision)

Typical (repetitive) situations, choose lighting treatment and product palette

Important areas, show implementation of vision and light treatment, rendering, for approval

PART II

Typical situations, work out layout and fixture selection, for the architects to put in drawings

VISION

PARTI

Develop overall design vision for the whole area (master vision)

Typical (repetitive) situations, choose lighting treatment and product palette

Important areas, show implementation of vision and light treatment, rendering, for approval

PART II

Typical situations, work out layout and fixture selection, for the architects to put in drawings



Mood board lighting concept KACC













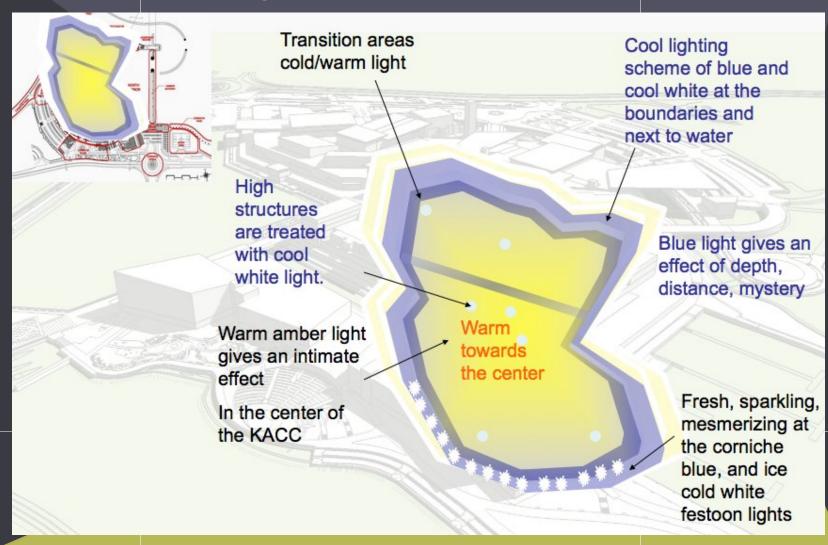


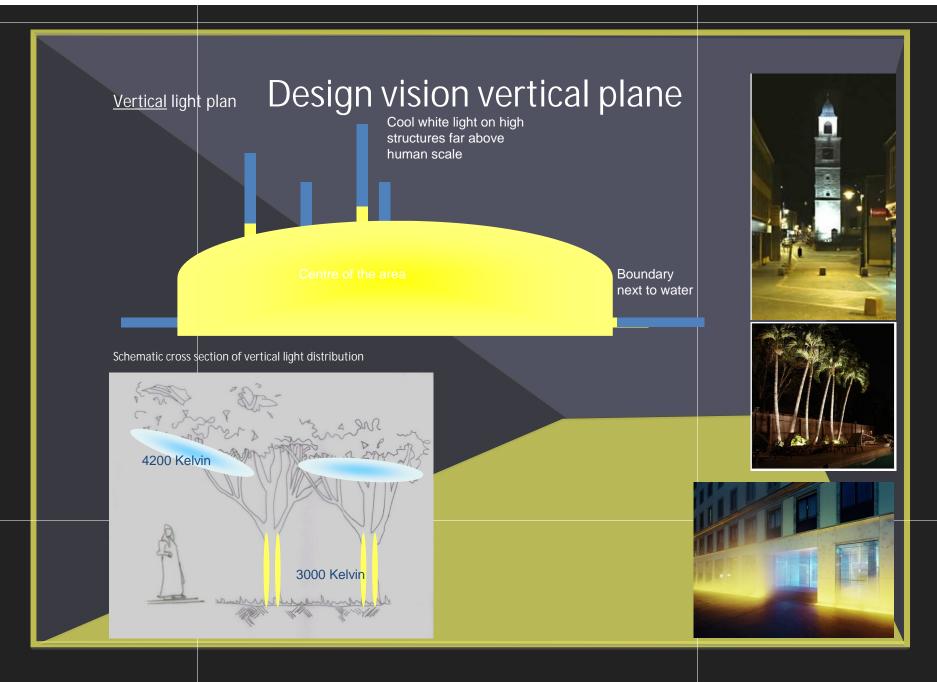






Design vision horizontal plane





Part I: lighting treatment & product palette example

PARTI

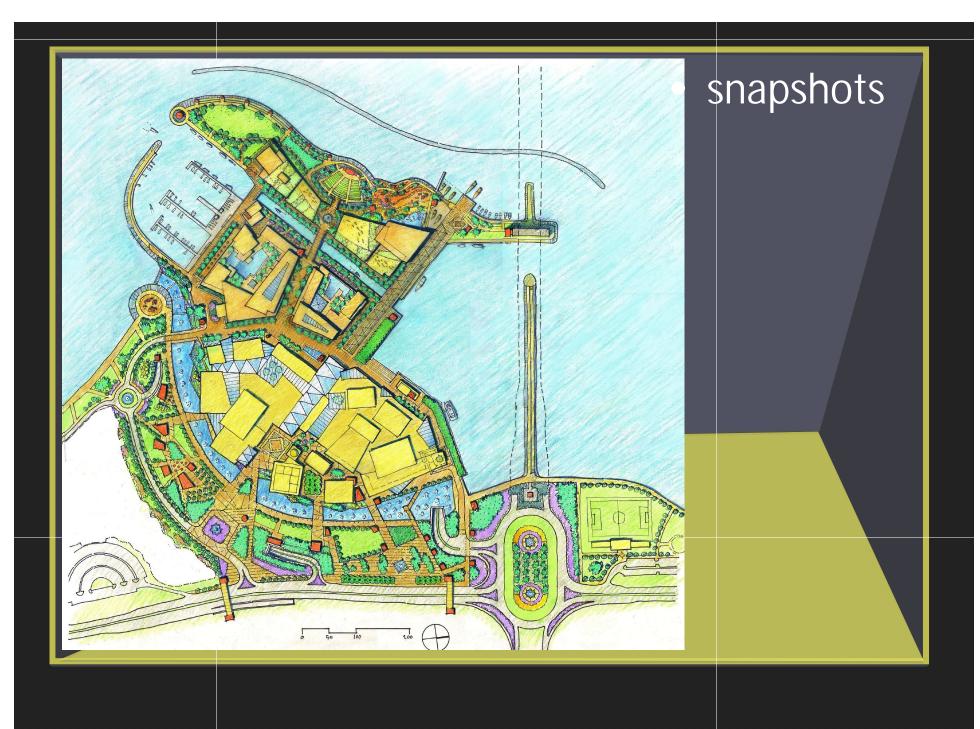
Develop overall design vision for the whole area (master vision)

Typical (repetitive) situations, choose lighting treatment and product palette

Important areas, show implementation of vision and light treatment, rendering, for approval

PART II

Typical situations, work out layout and fixture selection, for the architects to put in drawings





- Bridges ,quays and docks
 - Fiber optic spots
 - LED spots

General remark: Studio Lite recommends to use Fiber optic lighting to light up the areas next to water that have a chance to be underwater due to storm, waves or high tides.

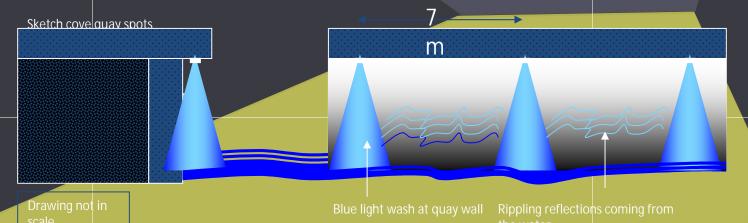




IP 68 LED 1W-wall/floor mounted lighting LED node



Wall mounted LED spot



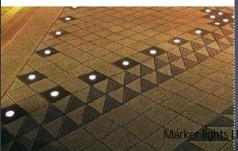
Generic lighting principles: pedestrian areas-walkways

Walkways

Lighting selection

- Marker lights LED, dots or lines
- Poles 3 meter height
- Compact bollards





Insta marker lights



Compact bollard, one direction beam Castaldi-ZACK



Poles 3 meter- Leipziger Leuchten



Generic lighting principles: tall mature trees

- Festoon lighting hanging from branches
- Uplighting
- projector







LED festoon MK lighting-MK lighting

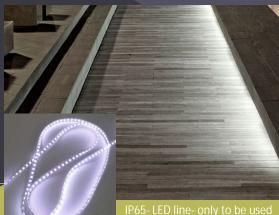
Erco projector spot

Generic Lighting Principles: Benches

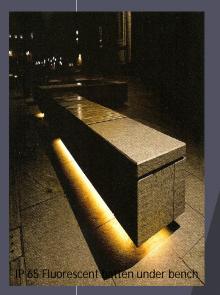
- Concealed LED line or fluorescent batten
- Ready made catalogue benches with integrated light



DAP-spain bench with light integrated



IP65- LED line- only to be used in warm white 3000K close to



Part I: show implementation

PARTI

Develop overall design vision for the whole area (master vision)

Typical (repetitive) situations, choose lighting treatment and product palette

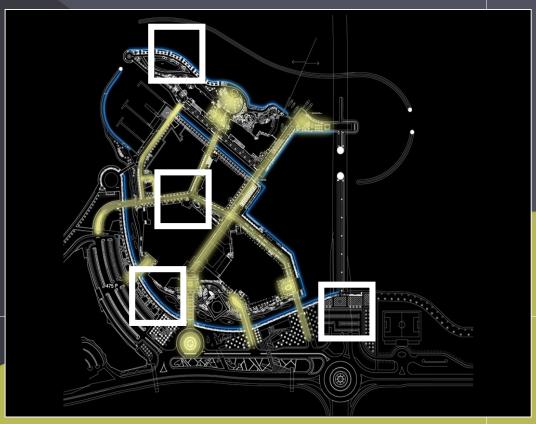
Important areas, show implementation of vision and light treatment, rendering, for approval

PART II

Typical situations, work out layout and fixture selection, for the architects to put in drawings

Concept implemented in KACC key areas

Royal arrival court-main hall* Fountain Square Waterfront park* Cornice canal section AA



Main hall entrance



Waterfront park



Part II: layout of typical sections

PARTI

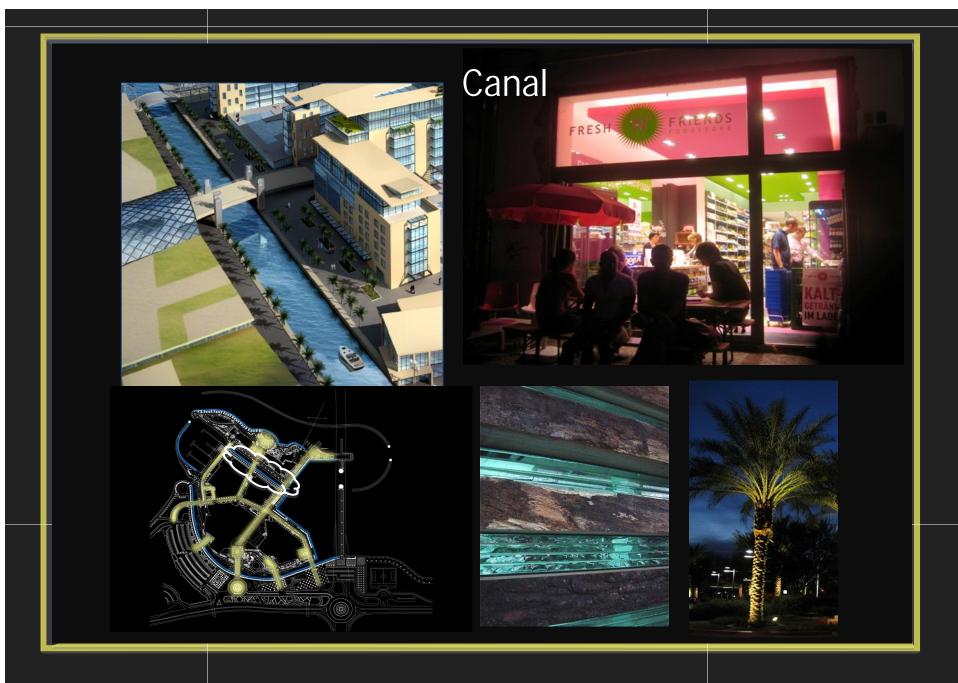
Develop overall design vision for the whole area (master vision)

Typical (repetitive) situations, choose lighting treatment and product palette

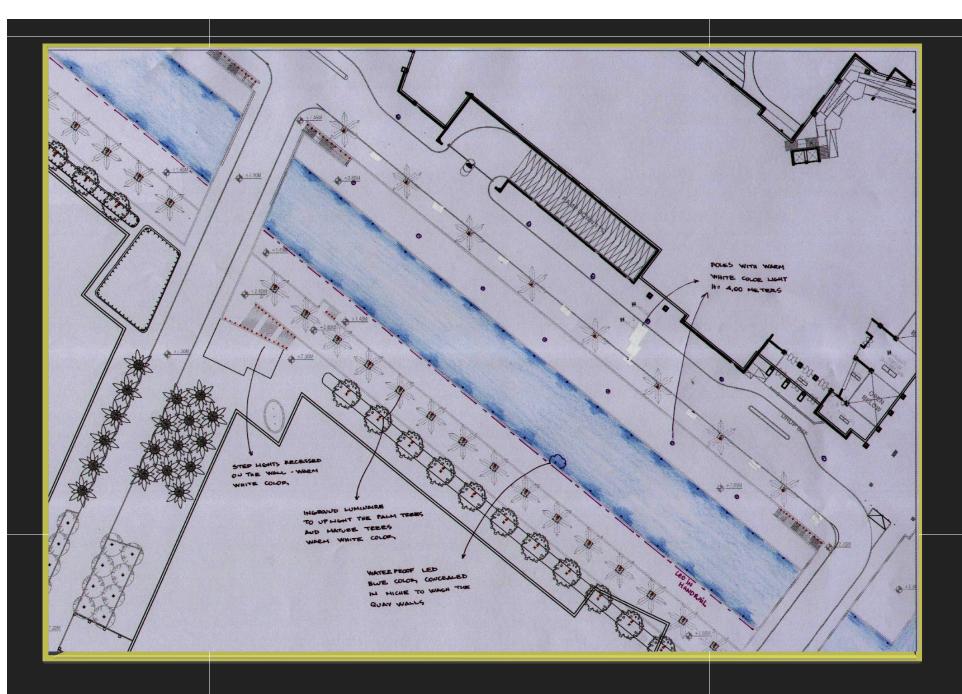
Important areas, show implementation of vision and light treatment, rendering, for approval

PART II

Typical situations, work out layout and fixture selection, for the architects to put in drawings



Canal-lighting treatment+ fixture selection PETRIL 8 COLOMN' 145 16.0 11.0 1& 5. Uplights on (palm)trees Spil light from shops Spot ceiling mounted Uplight palm trees 6. Steplights Integrated light in handrail-white cool Blue LED lights at quay wall Light pole in middle of pavement 10. Poles spaced on pavement in front of museum, see plan



Part II: Special structures

PARTI

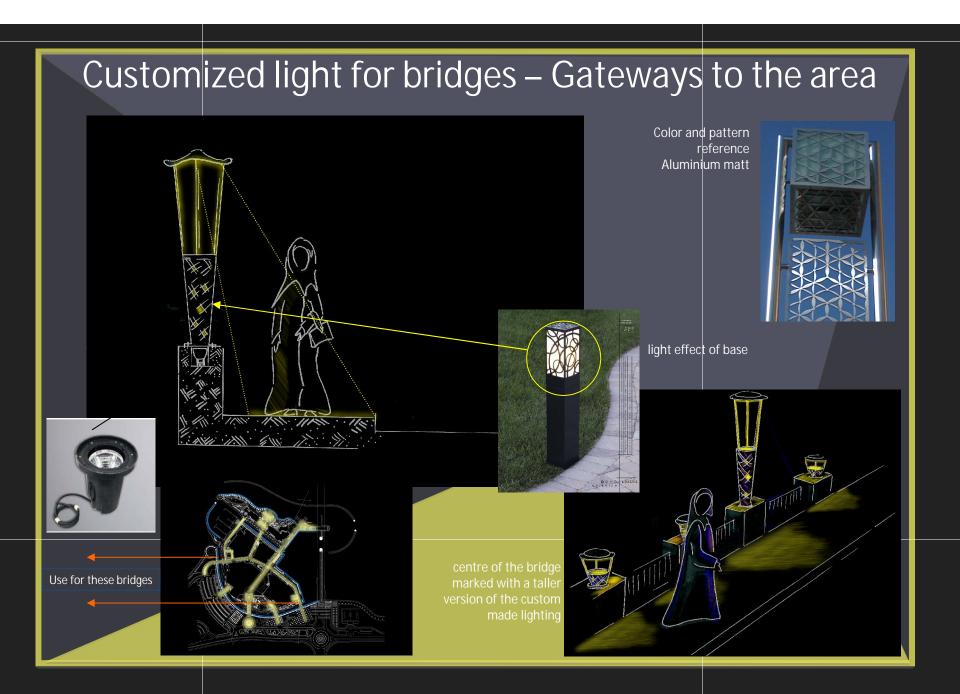
Develop overall design vision for the whole area (master vision)

Typical (repetitive) situations, choose lighting treatment and product palette

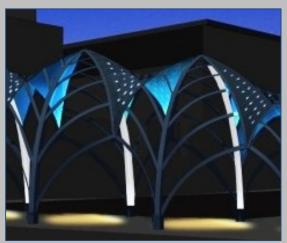
Important areas, show implementation of vision and light treatment, rendering, for approval

PART II

Typical situations, work out layout and fixture selection, for the architects to put in drawings



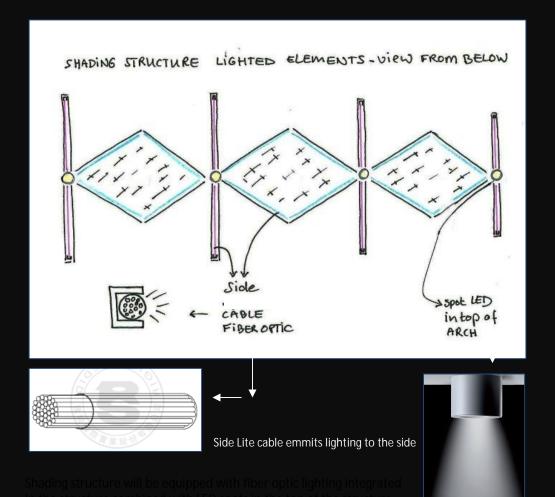


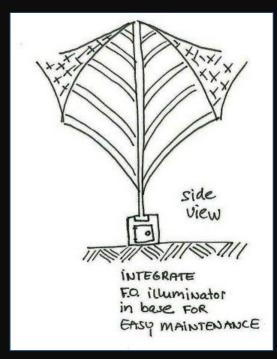


The shading arcade will play with color and perspective. During the night the arches are the main elements and will form a strong perspective that can be experienced while walking through the arcade. But also from a far distance the view will be different when the viewer drives or walks by.

The cool white and blue continue the concept of KACC, where we use cool whites and blues for areas close to the water.

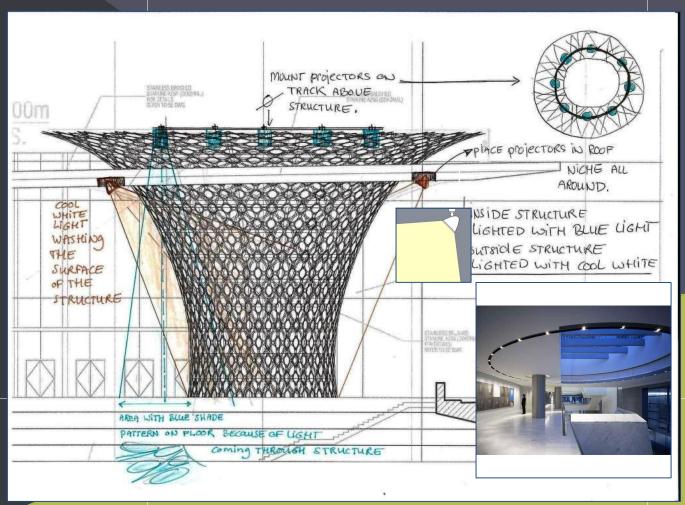
Shading structure Harbor side promenade-plan





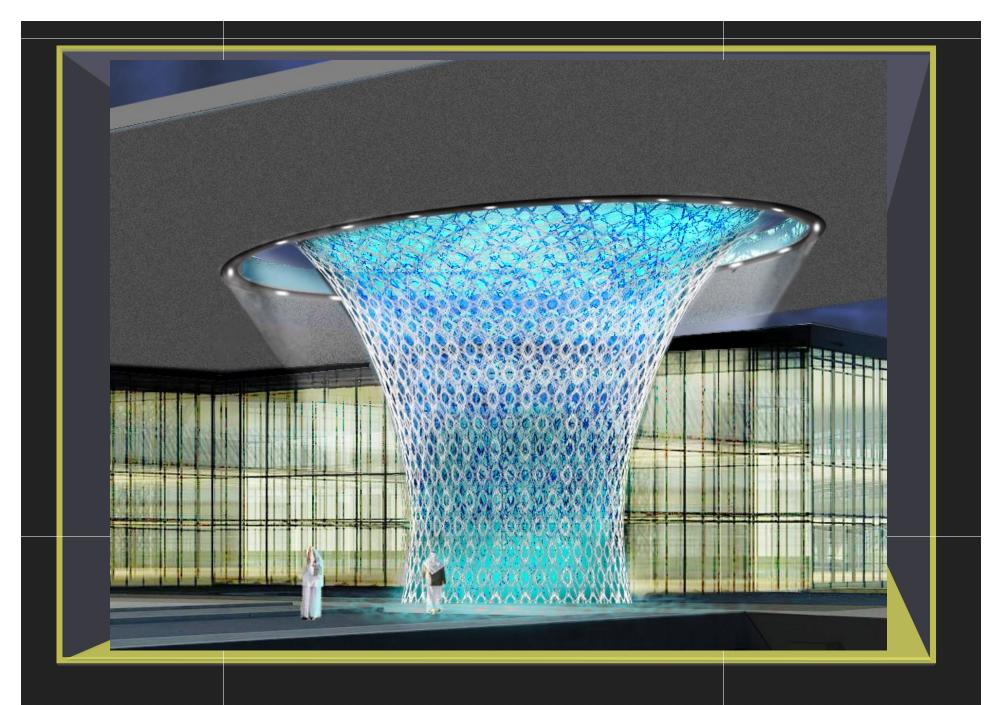


Special roof main hall- concept









summary Why Lighting designers Process of lighting design Method for large developments Use the LD expertise in the critical phase Call assistance when required Use your own resources for production work of cad plans Design fee 55% lower

Questions???

Studio Lite contact details and office location:

Al Maktoum Road, B62 Building,

P.O. Box 49543,

Deira, Dubai, UAE

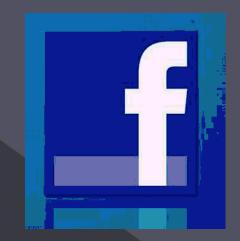
Tel: +971 42212030

Fax: +971 42212027

Email: info@studioliteme.com

Website www.studioliteme.com



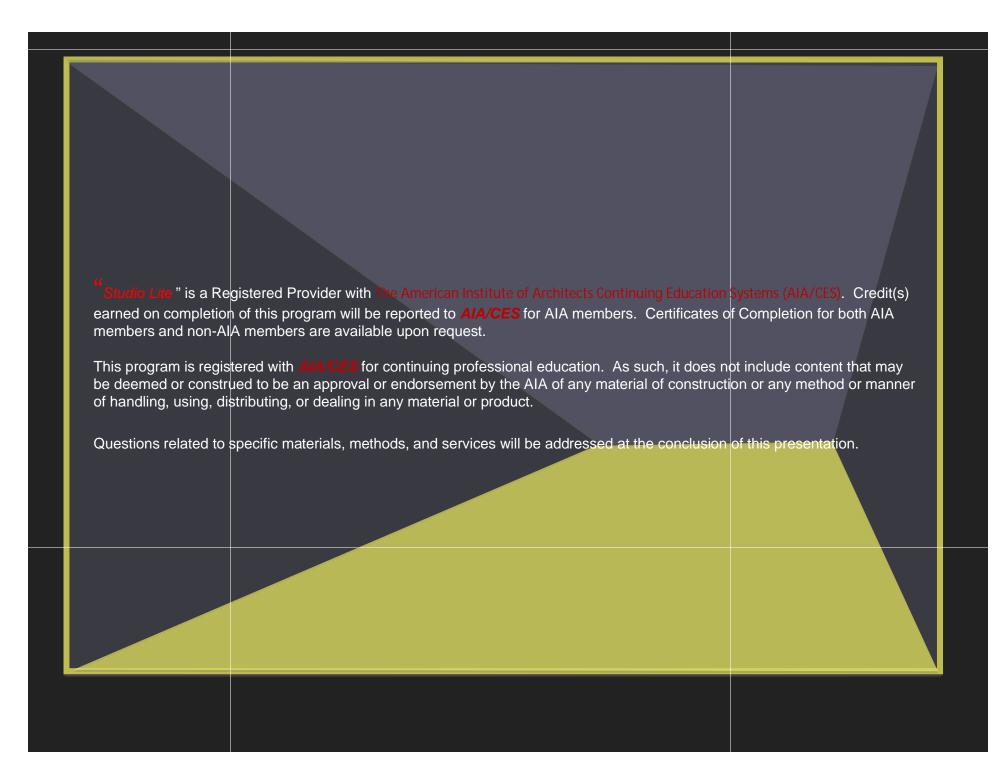


MEET US ON FACEBOOK PAGE: STUDIO LITE











This presentation is protected by US and International Copyright laws. Reproduction, distribution, display and use of the presentation without written permission of the speaker is prohibited.

