

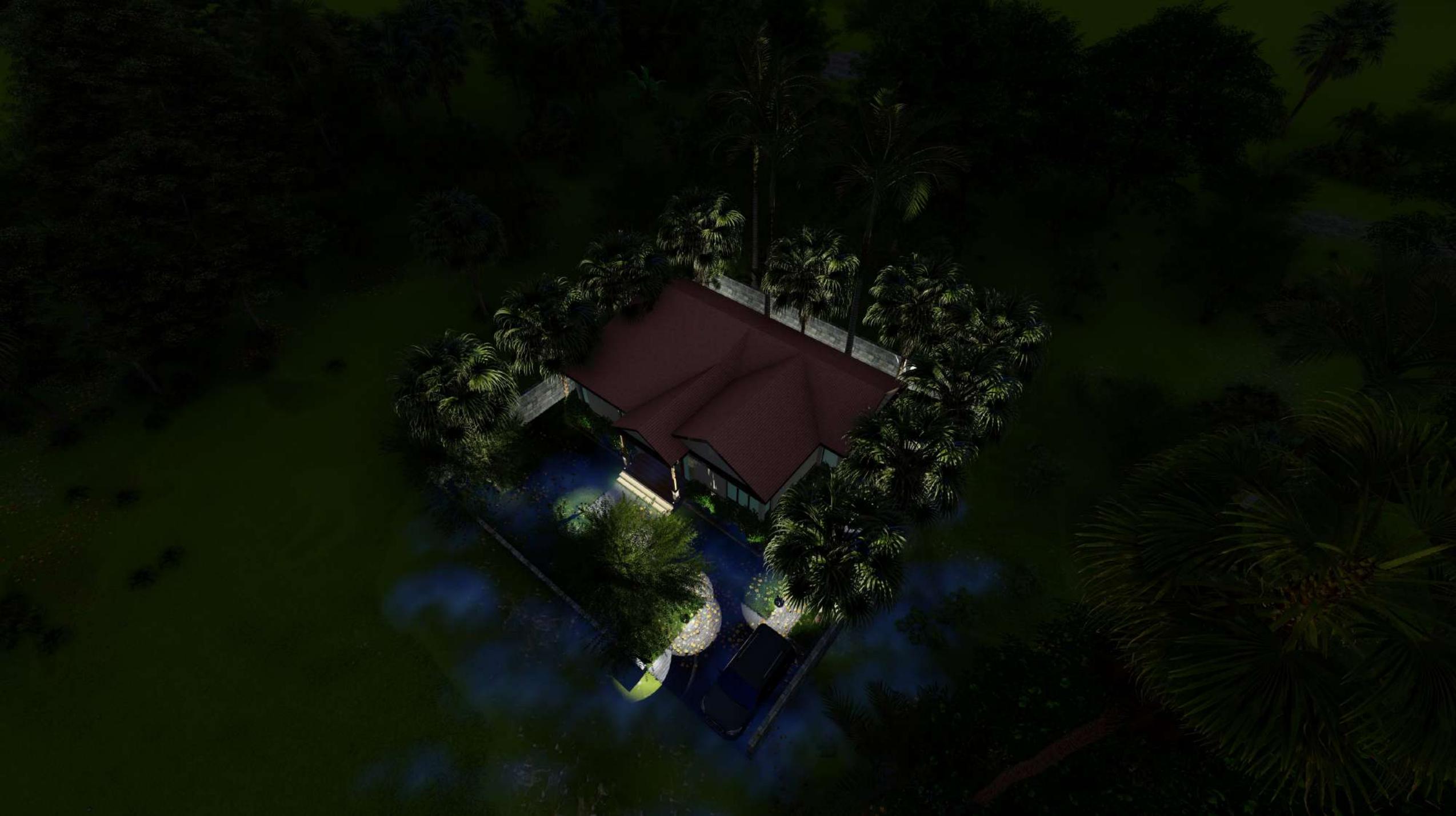
Three spotlights are positioned at the top of the frame, casting a soft, circular glow on the dark grey background. The central spotlight is the largest and brightest, while the two side spotlights are smaller and dimmer. The text is centered within the central spotlight's glow.

# UNISER

LIGHTING DESIGN SERVICES

Complete Lighting Design & Light Fixture Supply Solution

Portfolio for Lighting Design Services



## Philosophy

Uniser Lighting Design Services (ULDI) offers a full array of lighting design services suited to compliment any project type. By integrating our experience, technological awareness and innovative creativity, we deliver fresh and viable lighting solutions to our clients through light as the subject in creating a healthy environment that can uplift the end-user's sense of well-being.

We consider lighting isn't just to light up. We believe lighting is an artwork and can transform any space into a beautiful art. We work very closely with the interior design and architectural teams on projects to advise on the functional aspects of lighting as well as the aesthetic impact required by the project and by the client. Every project is different but the relationship between lighting, interior and architecture is an enduring bond.

## Strategy Planning

Whilst similar to the concept proposal a lighting strategy would take the process a stage further identifying our fixtures and lamp types which can be referred to for future development along with a set of rules to ensure future compliance.

We ensure that the lighting system provides ambient illumination for orientation and general tasks in the space, task illumination for local, more demanding tasks, and accent illumination to highlight special objects of interest or to guide occupants.

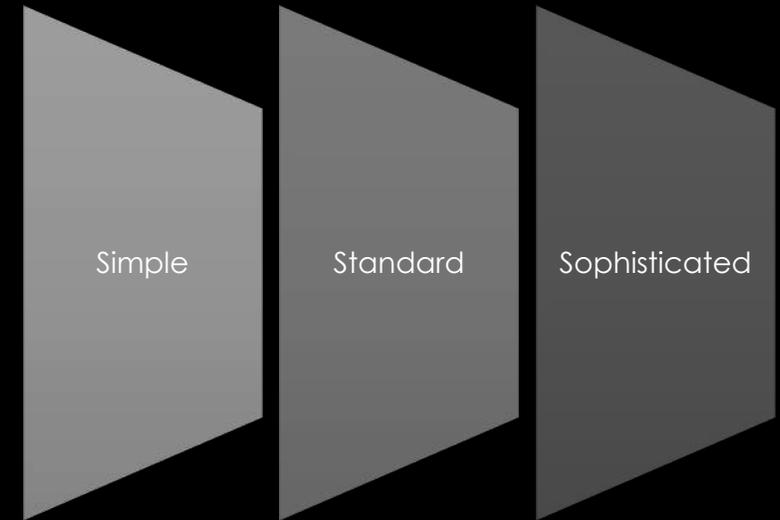
As a fact lighting design is not just calculation of lux level , it is dramatically linked to interior design and architectural design. The main challenge in lighting design is how to emphasize the texture, shadow, highlight, glow, and create the accent of interior lighting to pop-up displayed products as well as interior design.

## Strategies

Light plays an essential role in our ability to perceive the world around us. The lighting system plays a critical role in how we perceive a space and can even influence how we act in that space. Lighting can affect performance, mood, morale, safety, security and decisions.

The first step in producing the right lighting design is to ask what the space is used for. The lighting designer can then determine quantity of light, color quality, brightness and direction.

It is beyond the scope of this article to go step by step through the process of producing a lighting design. Instead, we will review the several ways that lighting professionals look at lighting design, from the simple to the sophisticated.



# Lighting Strategic Applications

Key Lighting



Fill Lighting



Silhouetting



Up Lighting



Sparkle & Glitter Lighting



Wall Grazing Lighting



Wall Washing Lighting



## Services

From initial strategic advice and concept development all the way through to construction documents and on-site support, we offer unparalleled creativity backed by the technical excellence and experience for which we are renowned. Our team are experts in daylight design, light and wellbeing, fixture design, brand identity and lighting engineering



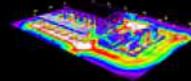
Lighting Strategies



Dimming & Lighting Automation



Lighting Master Planning



Lighting Simulation & Analysis



Ecological Luminaire Selection



Realistic Rendering & Visualization



Luminaire Calculations,  
ROI & Energy Savings



Lighting Specifications



## Lighting Advisory

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Lighting design  
Product Specifications  
Site Survey & Analysis  
Investigate the existing scenarios  
Considering the daylight for retrofit  
Make cautious lamp choices  
Lower Light Levels  
Enabling Multipurpose Lighting Solutions  
Design / Customize Lighting Controls  
Optimizing Lighting Systems suitability & feasibility  
Examining financials & ROI

## Lighting Design Package

Concept, Development, Specification and Implementation in one complete lighting design package.

Uniser Lighting Designers India will design, follow and supervise the entire process ensuring the finished lighting scheme is in line with the original concept proposal



## Lighting Analysis

The lighting conditions under which we operate, the building users represent a key-aspect for the interior environmental quality. The sustainability protocols currently in-use try to increase the use natural illumination because, apart from the eventual energy savings, the artificial light has a much lower frequency compared with the sun light and therefore it turn out being non-optimum for the human eye perception.

In order to guarantee optimum lighting conditions, even during the early design stage it is important to develop a simulation of the natural and artificial lighting conditions which could help us identifying possible weak points where light lacks or exceeds. On the other side, lighting simulation allows us to evaluate the efficiency of shading devices and their effects on lighting conditions.

Lighting Concept
Product Selection
Lighting Simulation
Lux Study
Analysis Report
3D Renders
Realistic Visualization
Electrical Load Analysis
Economical Solutions
Cost Saving Design
Concept Renders
Product Specifications
Photometric Files
Technical datasheets / cutsheets
CAD Drawings
DB / Wiring Drawings
All the documents in PDF Format

# Reporting

## Calculations & renders, reports

#12019002-0 

### Outdoor space 1 Summary

Results

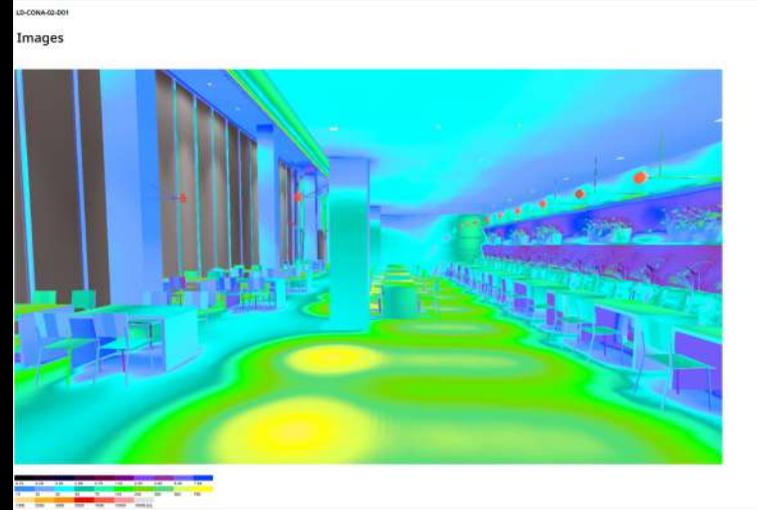
	Symbol	Calculated	Target	Check
Workplane	E	275 lx	≥ 20.0 lx	✓
	g <sub>1</sub>	0.023	-	-
Consumption values	Consumption	560 - 600 kWh/a	max. 9350 kWh/a	✓
Lighting power density	Room	1.12 W/m <sup>2</sup>	-	-
		0.41 W/m <sup>2</sup> /100 lx	-	-

Utilization profile: Building sites, Clearance, excavation and loading

### Luminaire list

pcs.	Manufacturer	Article No.	Article name	P	Φ	Luminous efficacy
3	PHILIPS	BN124C L1200 1 xLED415/840		38.0 W	4101 lm	107.9 lm/W
4	PHILIPS	BVP506 GC T15 1xGRN59-35/740 A/60		46.0 W	5030 lm	109.3 lm/W

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#12019002-0 

### Description

Kobornawa New Control Building Lighting Analysis  
Revision-IV

O&B, Sri Lanka

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#12019002-0 

### Outdoor space 1 Workplane (Outdoor space 1)

Properties	E (Target)	E <sub>min</sub>	E <sub>max</sub>	g <sub>1</sub>	g <sub>2</sub>	Index
Workplane (Outdoor space 1) Perpendicular Illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	275 lx ≥ 20.0 lx	6.29 lx	355 lx	0.023	0.018	☑

Utilization profile: Building sites, Clearance, excavation and loading

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### Building 1 - Storey 1 - Lobby Area Workplane (Lobby Area)

Properties	E (Target)	E <sub>min</sub>	E <sub>max</sub>	g <sub>1</sub>	g <sub>2</sub>	Index
Workplane (Lobby Area) Perpendicular Illuminance (adaptive) Height: 0.900 m, Wall zone: 0.000 m	173 lx ≥ 150 lx	2.61 lx	1501 lx	0.015	0.002	☑

Utilization profile: Places of public assembly, Restaurants and hotels, Restaurants, dining rooms, function rooms

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# Realistic Rendering & Visualization



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LIGHTING DESIGN SERVICES

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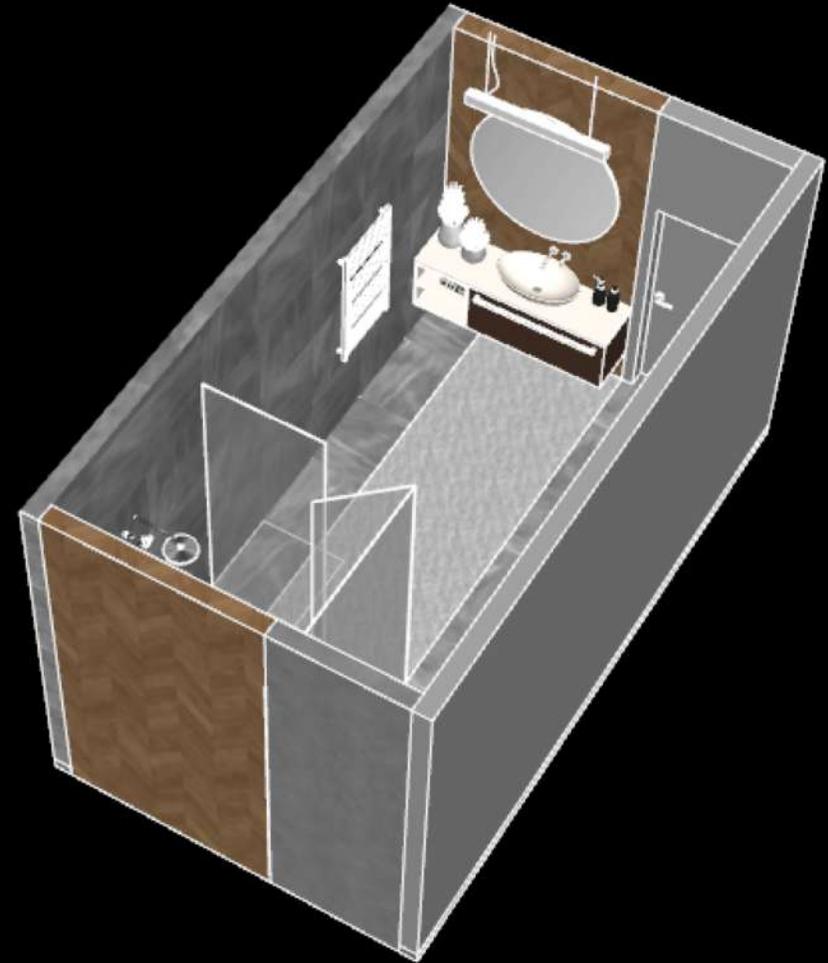
Projects

## The Vanity Lighting

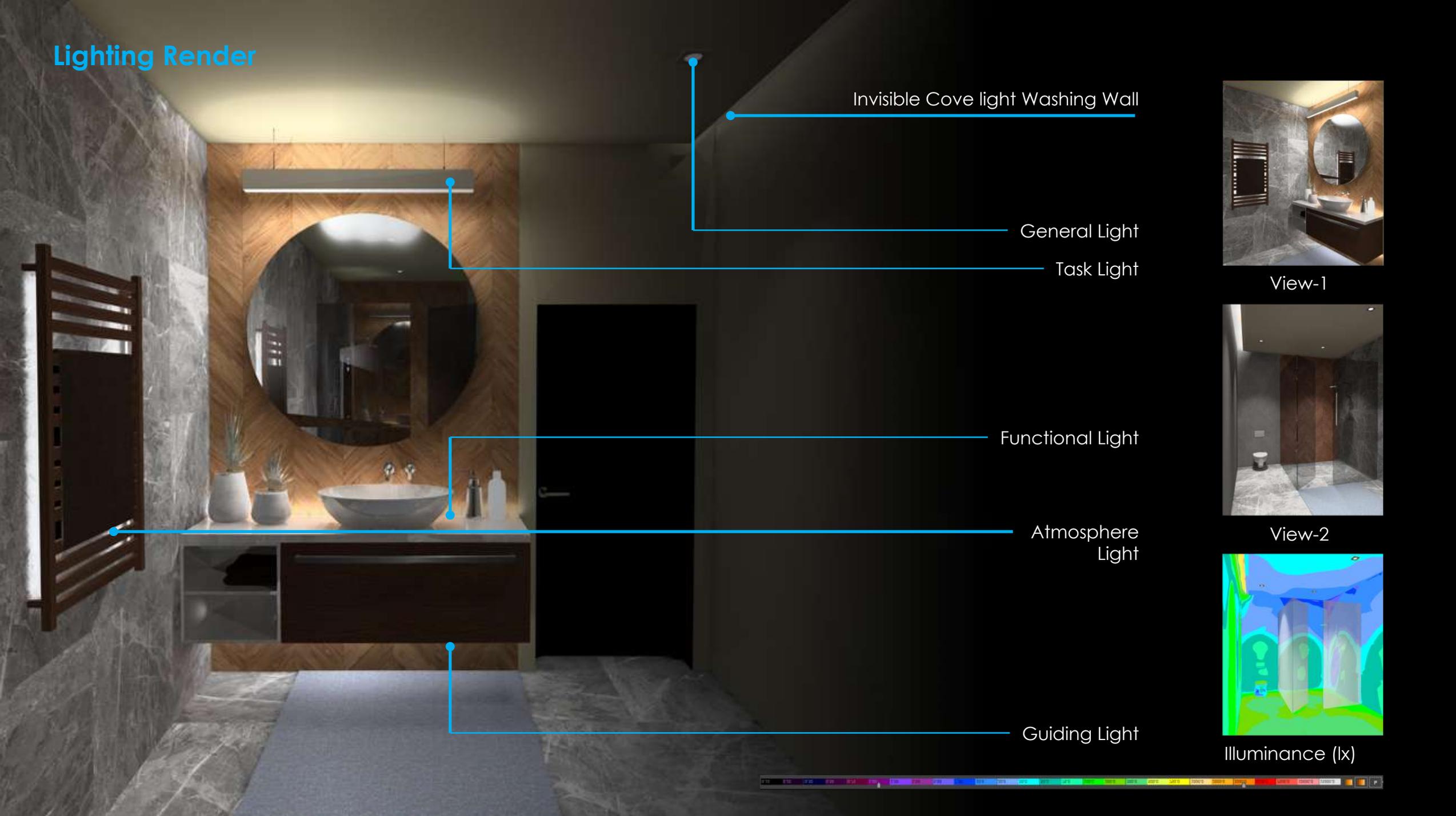
A Simple Washroom  
Location: Dubai  
Year: 2020

### Project Brief

The aim of this design was to provide a glare free lighting with an ambience & warmth. The CCT of 3000K is planned on the vanity with out shadows and a bright reflectance on the mirror to give a clear appearance of the subject standing at the vanity.



# Lighting Render



Invisible Cove light Washing Wall

General Light

Task Light

Functional Light

Atmosphere Light

Guiding Light



View-1



View-2



Illuminance (lx)



## Office Lighting

Small Office  
Location: Germany  
Year: 2020

### Project Brief

The aim of this project is to Light up the office with minimal light fixtures and yet to achieve the lux levels in a budgetary design. Using high efficiency LED chip on an Aluminum Profiles hanging to the open ceiling, throwing light upwards and downwards.

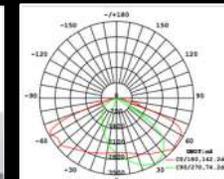


# Lighting Render & Analysis for an Office

Location: Germany



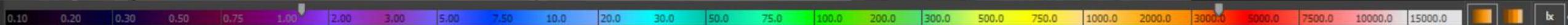
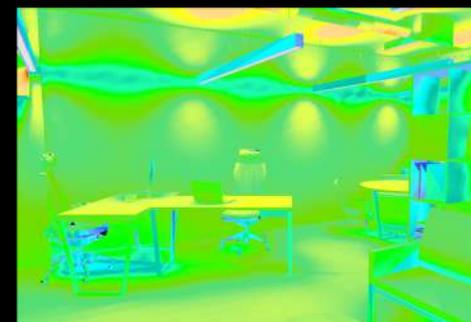
Suspended Linear Profile



Camera-1



False Colour Rendering



## CCT Study

Colour  
Temperature  
Ranges  
2000K-10000K

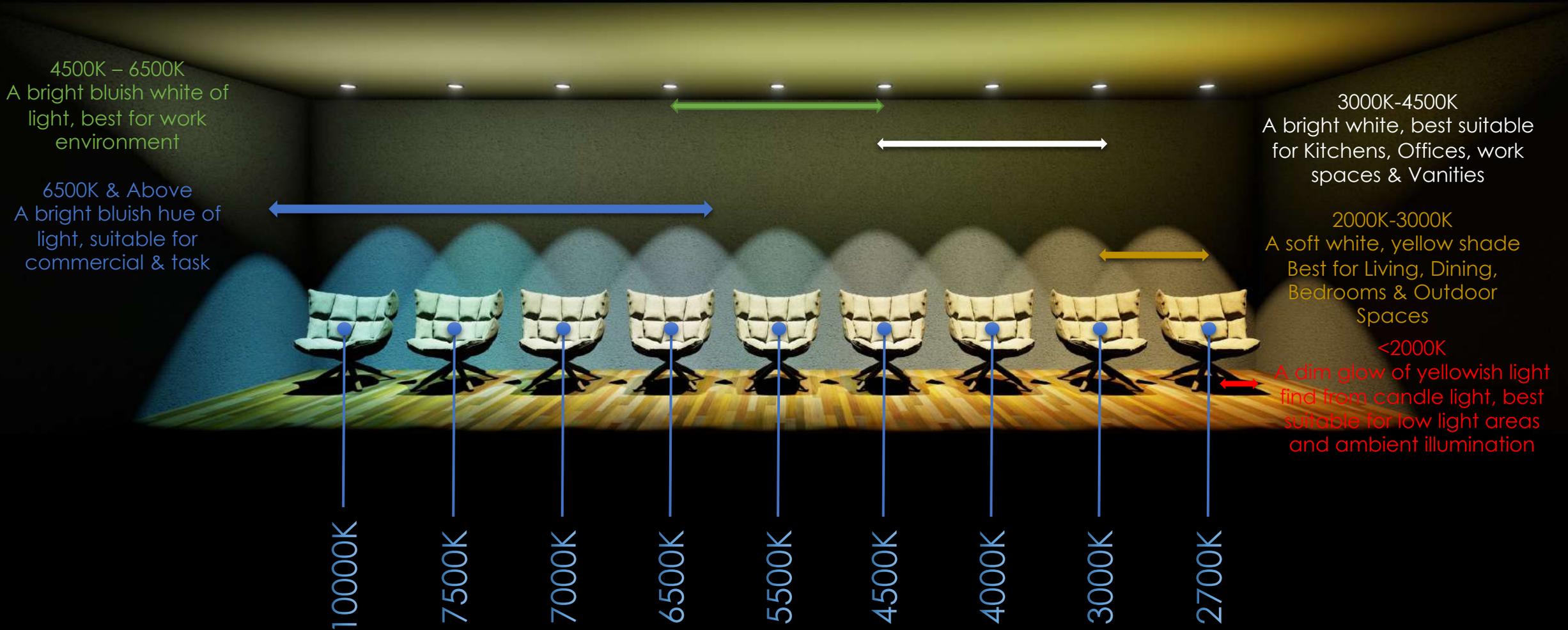
### Article Brief

When choosing the colour temperature you really need to consider the finishes and colour palette of each space. Reds, orange, yellow, and wood all look beautiful under warm white light. Whereas blues, and greys can look 'flat'. Cool white will make blue colors look amazing and can make white look 'crisp'. However reds and yellows can appear a little brown and wood can look 'dull'. This template will drive you to understand the importance of colours.

# Lighting Colour Temperature

Perhaps the two most important factors when choosing an LED light source are colour temperature and colour rendering. It's such an important subject it's worth giving this more attention.

When we talk about colour temperature we are referring to the warmth or coolness of light. Warmer light being more yellow, cooler being more blue. There is no 'standard' 'White' LED.



## The Office Lighting

An Offshore Development Centre  
Year: 2021

### Project Brief

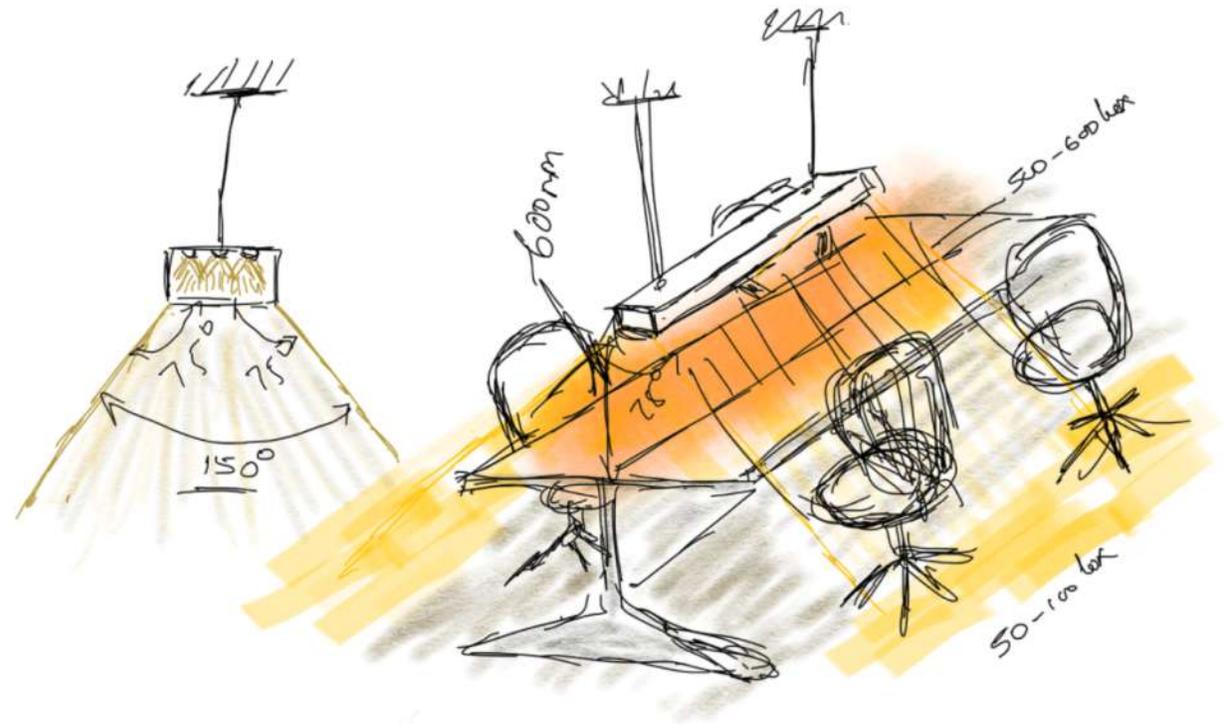
The aim of this project was to provide solution with hanging task lights on a open ceiling at a reduced ceiling clearance and to bring an task environment with direct and indirect lighting application based on LG7 Guidelines.

## Lighting Concept

The Concept is made as the overhead lighting levels can be reduced to a level appropriate for monitor viewing, which creates a softer, more pleasant overall atmosphere and saves energy. Work surfaces are made flexible with this lighting to give workers total control over where and how much light they need for other tasks, such as reading a document

### Task Lighting:

Proper task lighting is a very important and often overlooked aspect of any room or work environment. Task lighting is localized lighting that provides the correct amount of light exactly where it's needed to suit the task at hand. It's a beam of light that is directed on the surface and therefore would highlight the area you are working on.



Overhead lighting is one of the biggest culprits of energy consumption. By placing energy-efficient task lights at every workstation, overhead lighting levels can generally be reduced, slashing energy use and costs

## Lighting Render



Overhead lighting is one of the biggest culprits of energy consumption. By placing energy-efficient task lights at every workstation, overhead lighting levels can generally be reduced, slashing energy use and costs

## Lighting Application @Site



The Analyzed output and installed linear lighting were perfectly matched to receive 500Lux on the desk achieving the required lux levels for task

## Lighting Render for other areas



Concept proposed made to achieve the light levels with a least energy consumption and longer life span and feasibility in maintenance

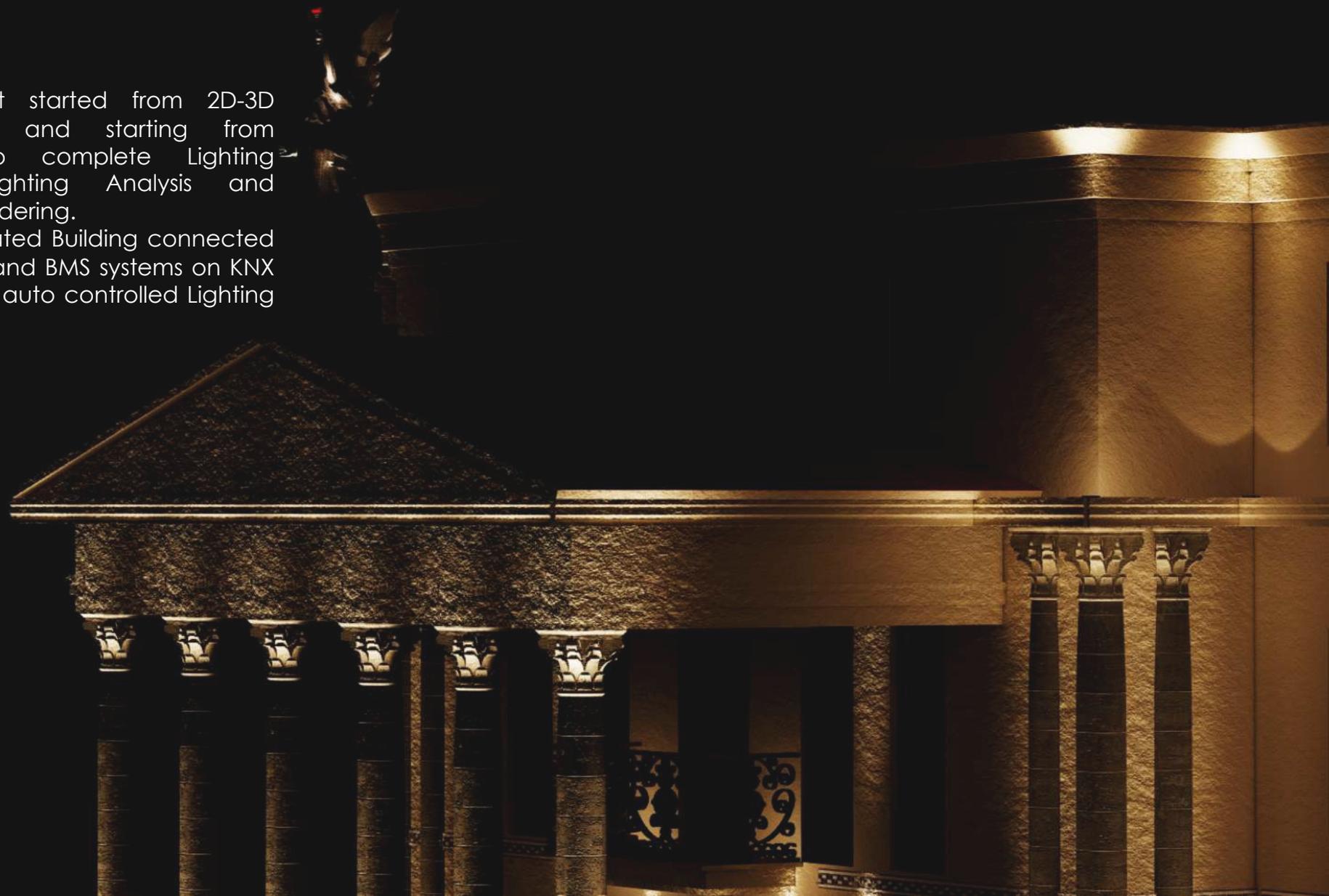
## Hotel Fairway

A Heritage Building  
Srilanka

### Project Brief

The Project started from 2D-3D Conversion and starting from scratch to complete Lighting Design, Lighting Analysis and realtime rendering.

The Automated Building connected with Alexa and BMS systems on KNX & DALI with auto controlled Lighting Schematic



# Realistic Rendering

Lighting Concept



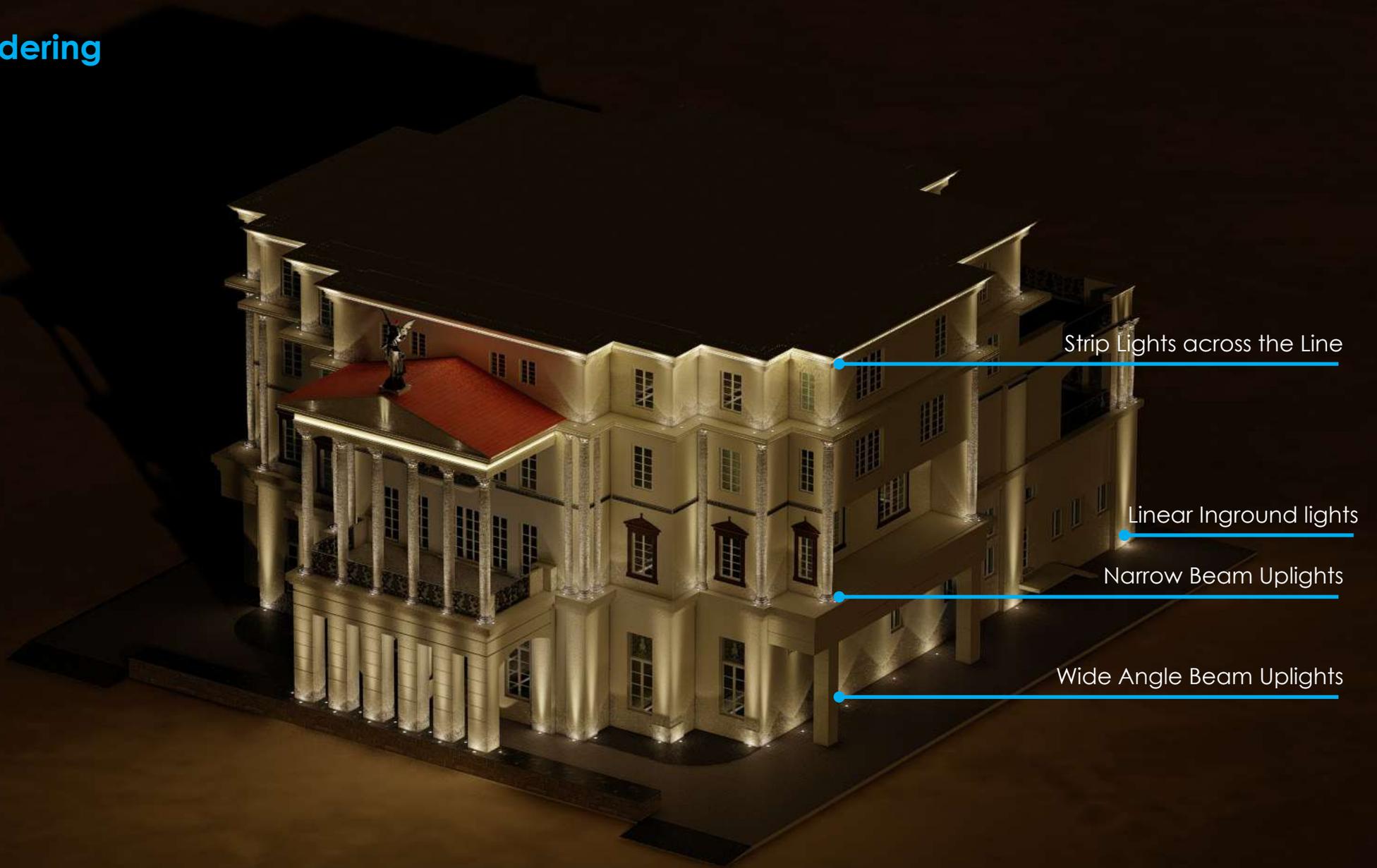
# Realistic Rendering

Lighting Concept



# Realistic Rendering

Lighting Concept



## Ongoing Projects

Residential

### Details

The other ongoing projects worked in the field of illumination ranging from residential to commercial, industrial, Sports, Landscape, Urban Planning etc.

# Villa Lighting

Lighting Conceptual Renders





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# UNISER

LIGHTING DESIGN SERVICES

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