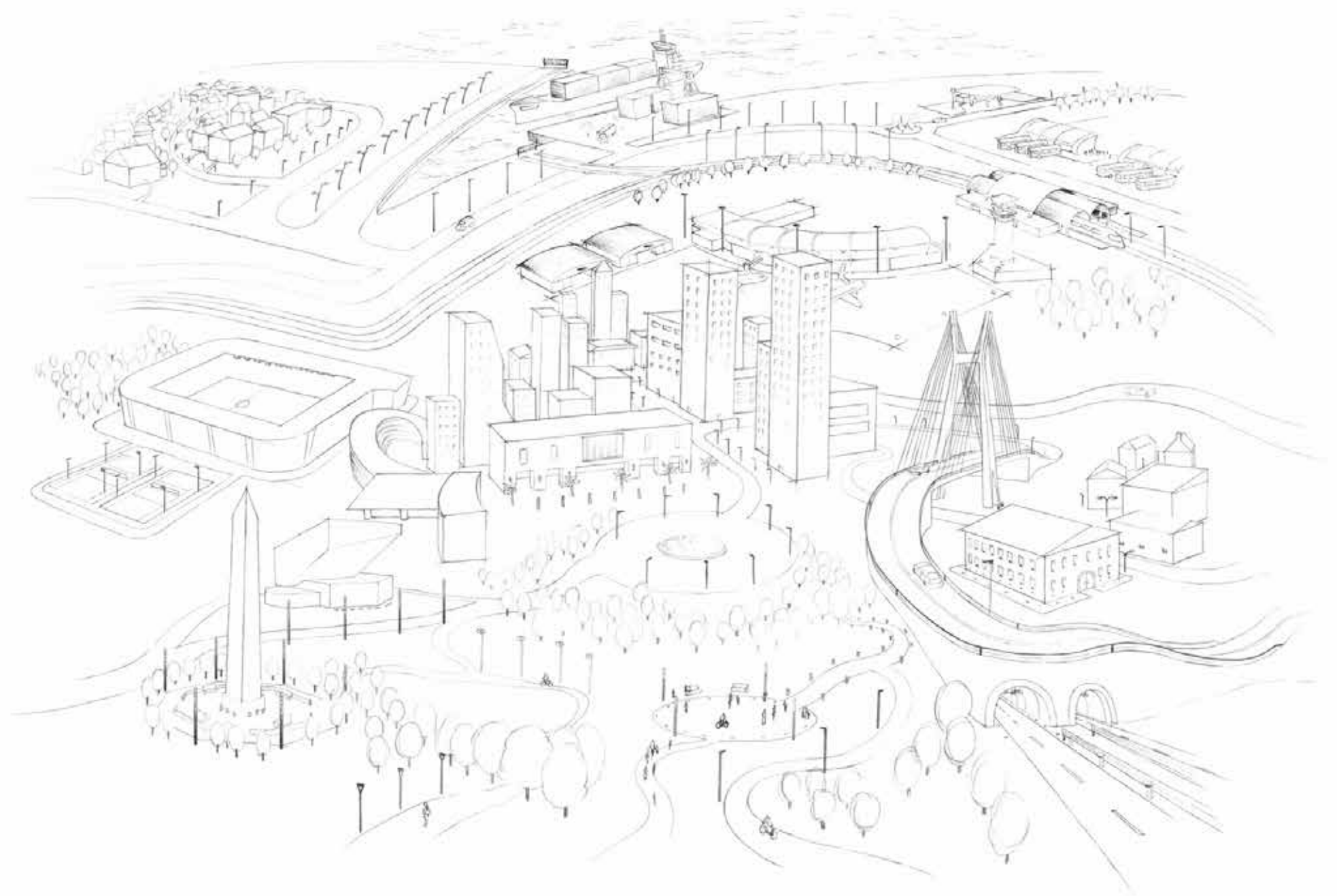
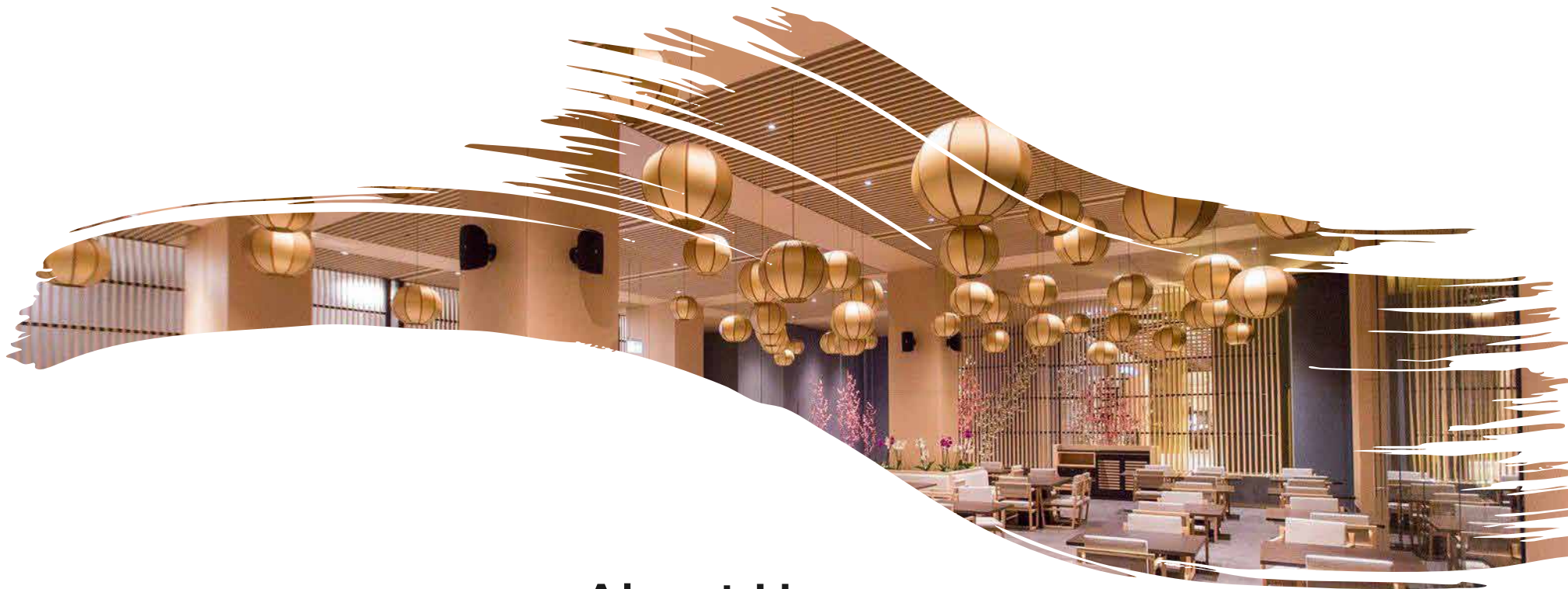


INDOOR LIGHTING REFERENCE PROJECT CATALOG







About Us

SAH GROUP has been investing in outdoor lighting and sports field lighting technologies for more than 16 years and offers turnkey solutions to its customers.

Since its establishment, the company has been involved in the street lighting, parking lots, sports fields, shopping malls, hotels, ports and many industrial areas.

Not only as product sales, but also with on-site solutions and contracting services, SAH GROUP has offered solutions based on customer satisfaction.

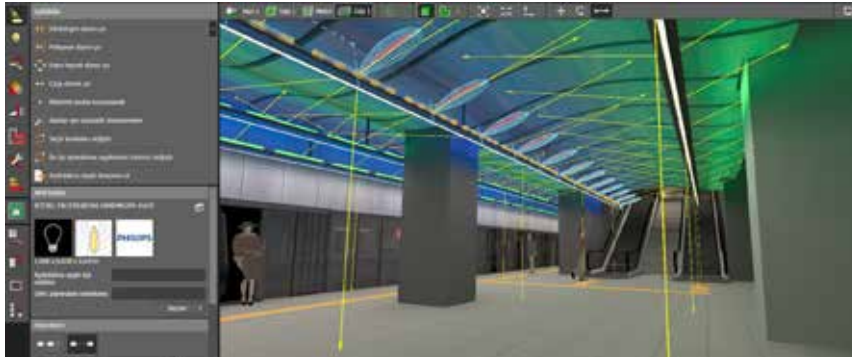
Our company also offers its customers steel construction and steel pole services at the highest standards.

Our Group Companies





SERVICES



01

PLANING AND PROJECT DESIGN

Our expert project team works hand-in-hand with customers to find the best lighting solution. By designing projects in accordance with the relevant application rules and standards, we reach optimum solutions in lighting design.

02

INSTALLATION - ASSEMBLY

Our experienced field team can provide safe and trustworthy installation support for luminaire assembly, assembly ontrivance and portal access. In addition, regardless of the type of facade or roof, we develop solutions and carry them into effect.

03

SUPPORT

We, as SAH GROUP, provide support at every step of the targeting with floodlights, precise angle adjustment, lighting level measurements during the commissioning process.



INTERIOR LIGHTING DESIGN

GENERAL INFORMATION ABOUT INTERIOR LIGHTING DESIGN

INTERIOR LIGHTING

Lighting has a profound effect on interior design. Every space needs its own, accurate lighting design. Hereby, while preparing the lighting project, many factors should be taken into consideration and their design criteria should be established.

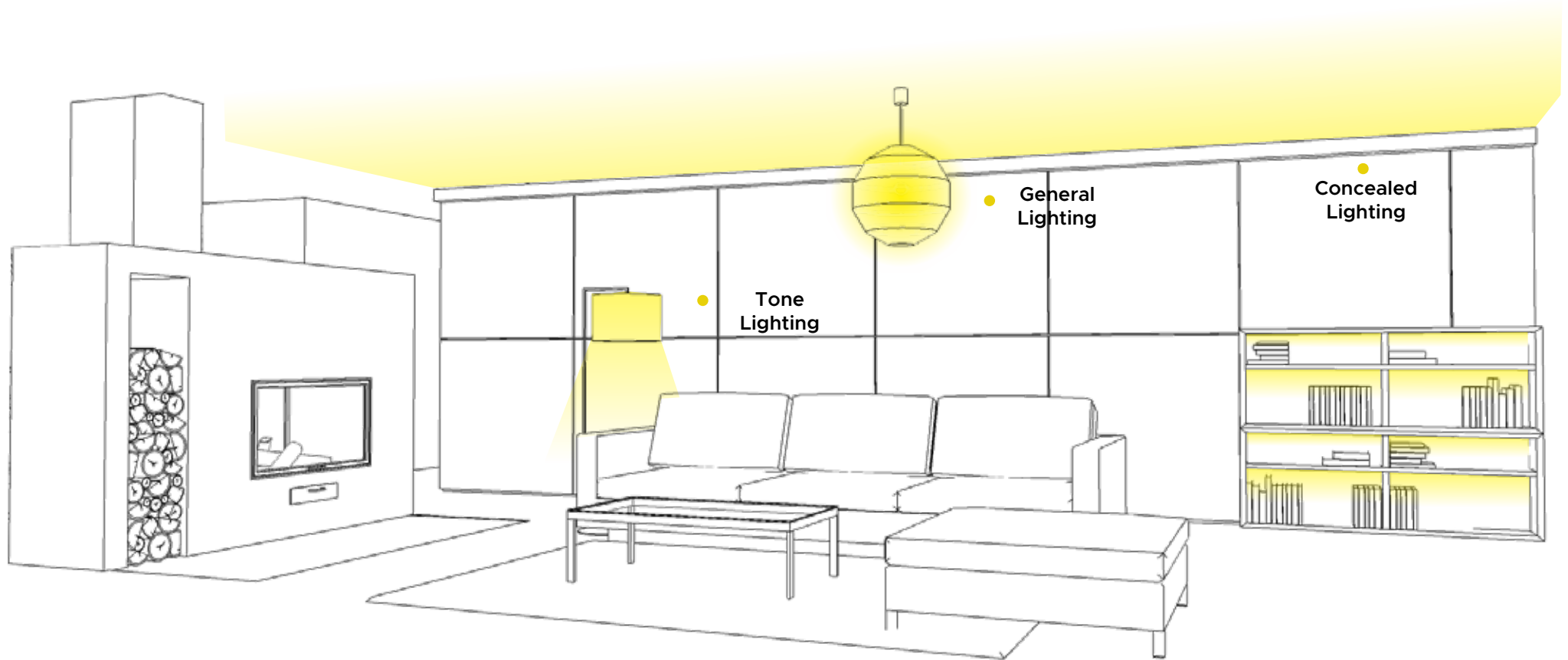
For proper lighting, the light that the space can handle should be calculated. Light multiplies with reflections. These reflections should be controlled. The light must be constant, should not be vibrating. A diffuser should be used to prevent the light source from coming directly to our eyes. The direction and angle of light should be placed in such a way that it does not cause glare and shadow. The following points are taken into consideration in the design;

- The intended use of the interior locus,
- The desired amount of light,
- The choice of the right light sources.



INTERIOR LIGHTING DESIGN

BASIC CONCEPTS



INTERIOR LIGHTING TECHNIQUES

LIGHTING SYSTEMS

01

Luminous flux (Φ)

Luminous flux can be defined as the amount of flow of light energy. Refers to the light power of a lamp. Its unit is the lumen. It's unit value defined as lumen.

02

Luminous Level

Luminous level is luminous flux that falls on a unit of time to a unit of space.

03

Intensity Of Light (I)

Light intensity is the luminous flux emitted from a point in a given direction per unit solid angle.

04

Glow (L)

The intensity of the light on a unit.

05

Glare

The difficulty of seeing that occurs when exposed to bright sunlight or an uncontrolled artificial light is called glare.

06

Color Temperature

Specifies the color of light that the visible light emitted by the light source has.

07

Color Rendering Index (Ra):

Ensuring that the colors of the environment and objects are perceived naturally and accurately is very important for visual performance, comfort and well-being.

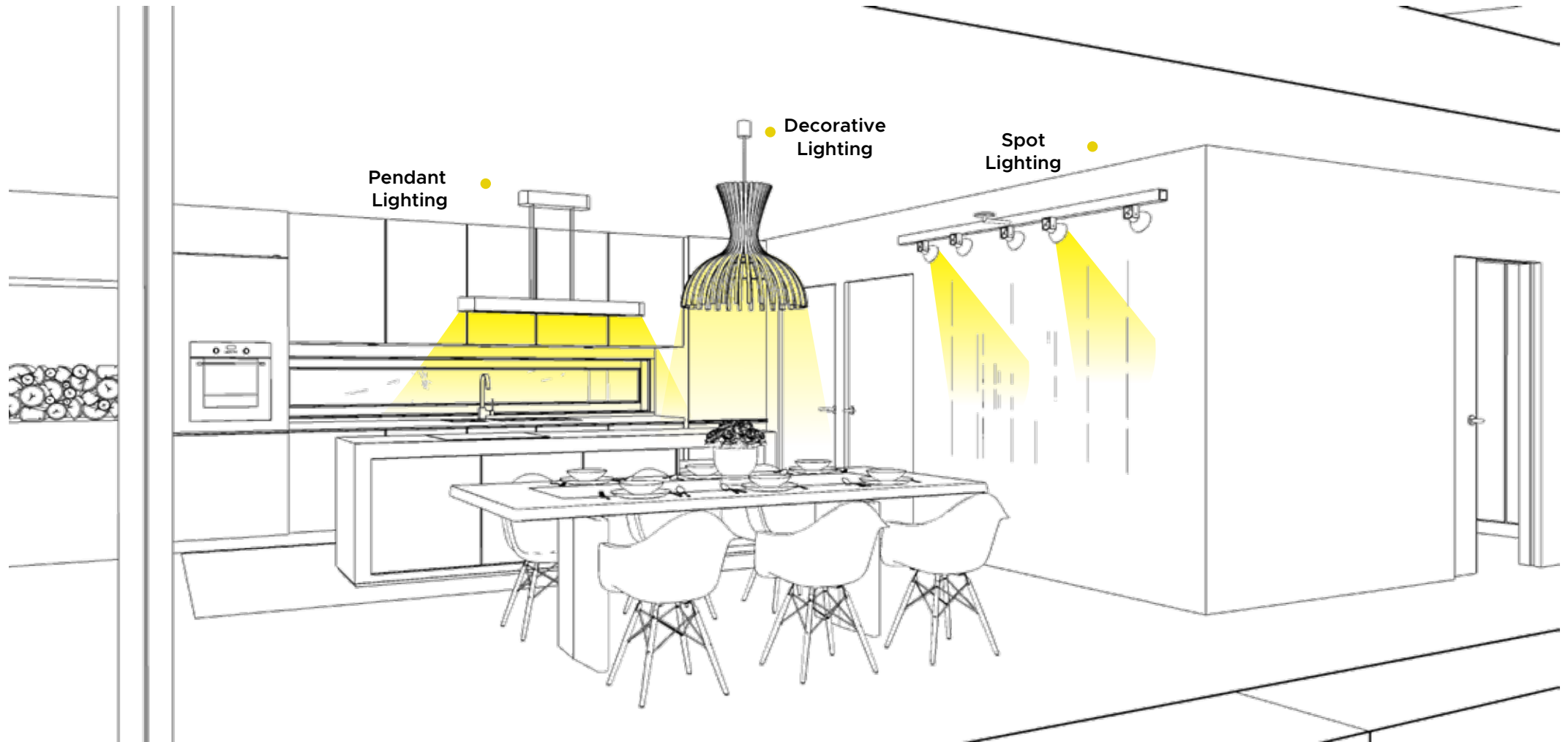
08

Visual Comfort

The purpose on this one is to increase the efficiency that can be get and provide consistency so that the physiological and psychological requirements can be fulfilled.

INTERIOR LIGHTING TECHNIQUES

LIGHTING SYSTEMS





OUR WORKING PARTNERS

PHILIPS

 **signify**

PHILIPS
 **COLOR
KINETICS**

THORN

acdc[®]

GEWISS

zumtobel group

IŞIN  daylight[®]







OUR PROJECTS



Muze Gazhane

Istanbul - Turkey

Hasanpasa Gas House, which started to serve in 1891 as the second gas house of the Anatolian side and the last gas house of Istanbul, has provided the lighting and fuel necessity of the city for 101 years. Istanbul Metropolitan Municipality reopened it as a Cultural Complex and Energy Museum. The facility's interior, landscape and architectural lighting was done by our company and in addition project design merchandising of the products were made by our company.



Muze Gazhane

Istanbul - Turkey



Muze Gazhane



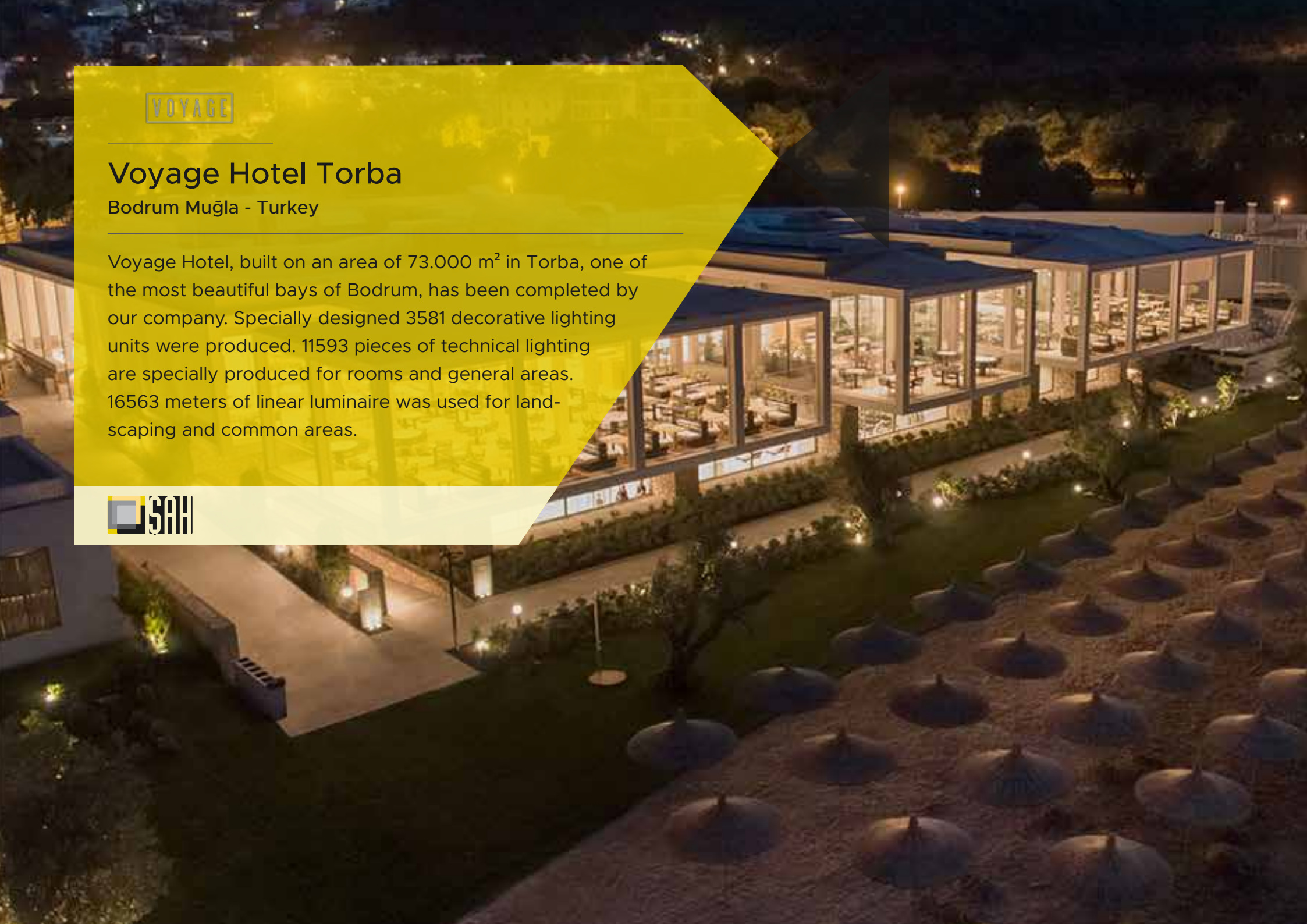


VOYAGE

Voyage Hotel Torba

Bodrum Muğla - Turkey

Voyage Hotel, built on an area of 73.000 m² in Torba, one of the most beautiful bays of Bodrum, has been completed by our company. Specially designed 3581 decorative lighting units were produced. 11593 pieces of technical lighting are specially produced for rooms and general areas. 16563 meters of linear luminaire was used for landscaping and common areas.



Voyage Hotel Torba

Bodrum Muğla - Turkey



Voyage Hotel Torba





VOYAGE

Voyage Belek Golf & Spa

Antalya - Turkey

Voyage Belek Golf & Spa, Antalya, located in a thousand shades of green, the interior and exterior lighting of the facility, which is installed on an area of 93.500 m2, has been completed by our company. 3606 decorative lighting productions specially designed with architectural drawings were made. 17805 pieces of technical lighting are specially produced for rooms and general areas. For landscaping and common areas 15957 meters linear product was used.



Voyage Belek Golf & Spa

Antalya - Turkey



Voyage Belek Golf & Spa

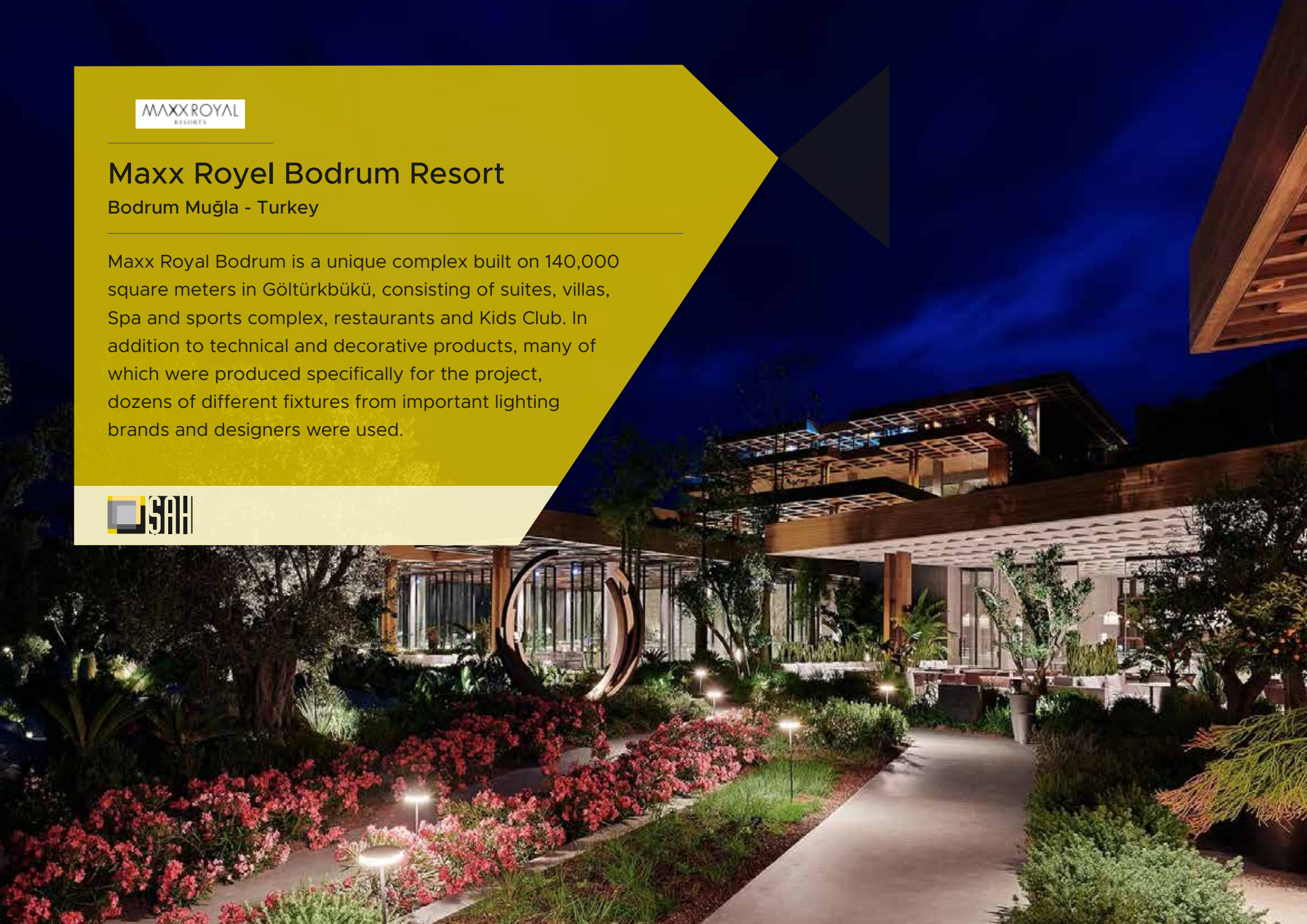




Maxx Royel Bodrum Resort

Bodrum Muğla - Turkey

Maxx Royal Bodrum is a unique complex built on 140,000 square meters in Göltekbükü, consisting of suites, villas, Spa and sports complex, restaurants and Kids Club. In addition to technical and decorative products, many of which were produced specifically for the project, dozens of different fixtures from important lighting brands and designers were used.



Maxx Royal Bodrum Resort

Bodrum Muğla - Turkey



Maxx Royal Bodrum Resort







CAJA
by MAXX ROYAL

CAJA BY MAXX ROYAL

Bodrum Muğla - Turkey

Located in Hebil Bay, one of the most beautiful bays of Bodrum, Caja by Maxx Royal; There are 22 carefully designed residences and villas. Surrounded by olive and pine trees, Caja by Maxx Royal offers a high-level accommodation service with unique architecture, facilities such as a gym, restaurant, outdoor swimming pool and privileged services. The lighting demands of the project were resolved by producing technical and decorative fixtures of the accommodation units, outdoor lighting fixtures of the landscaping and beach section, as well as special production fixtures for the interior and landscaping.



CAJA BY MAXX ROYAL

Bodrum Muğla - Turkey



CAJA BY MAXX ROYAL





Maxx Royal Resort Suit & Villa

Antalya - Turkey

Lighting of the Maxx Royal Villa, which is installed on an area of 1.040.500 m² and it makes it one of the most popular hotels in Antalya, has been completed. Specially designed 3663 decorative and technical lighting production and installation works were done.



Maxx Royal Resort Suit & Villa

Antalya - Turkey

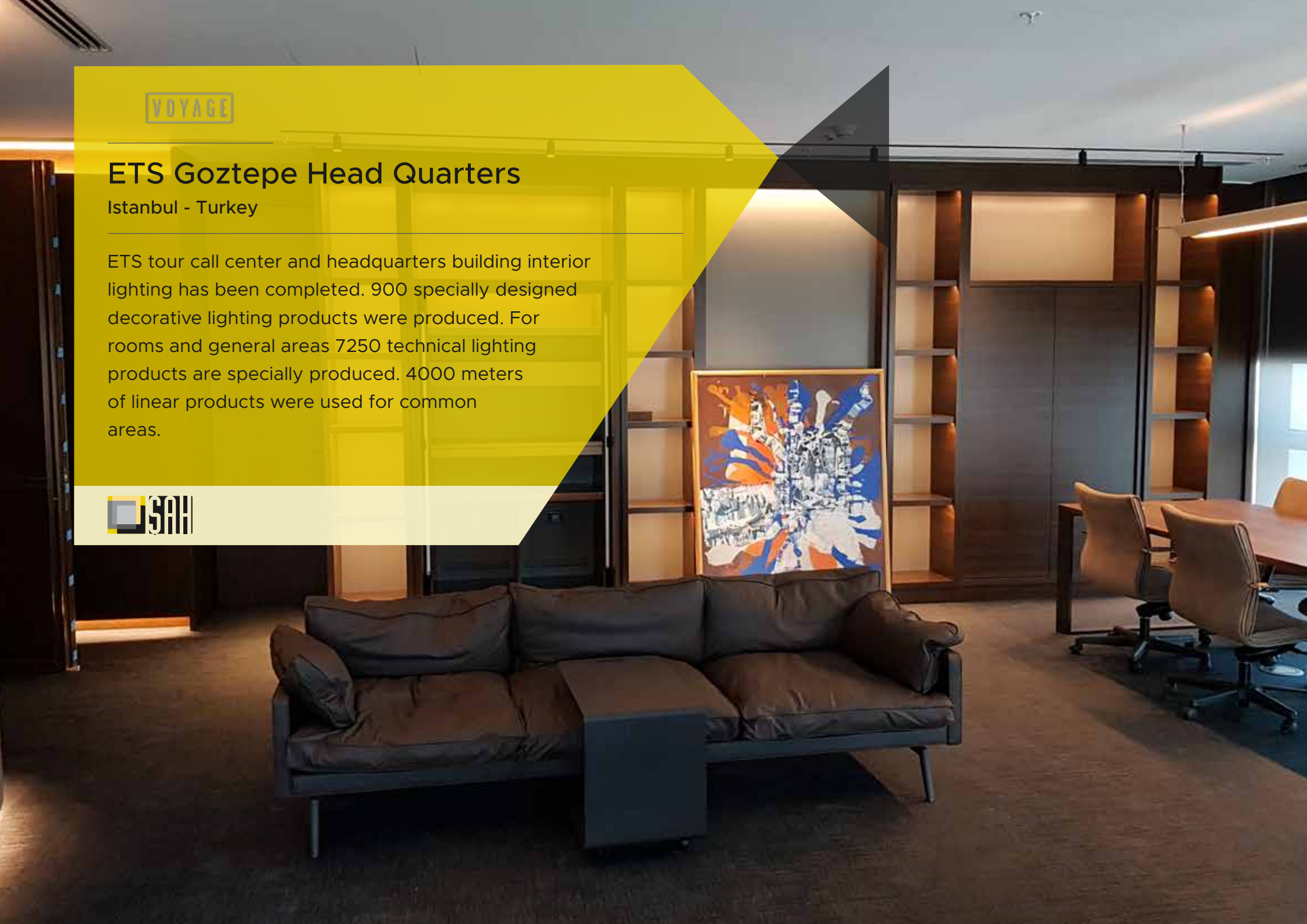


VOYAGE

ETS Goztepe Head Quarters

Istanbul - Turkey

ETS tour call center and headquarters building interior lighting has been completed. 900 specially designed decorative lighting products were produced. For rooms and general areas 7250 technical lighting products are specially produced. 4000 meters of linear products were used for common areas.



ETS Goztepe Head Quarters

Istanbul - Turkey





Central Bank Of Turkey

Istanbul - Turkey

The Central Bank, which started the process of moving to Istanbul, moved some of its units to the Ümraniye campus. Within the scope of the project, indoor lighting project, design services and all product supplies were made by our company.



T.C.
TÜRKİYE CUMHURİYET
MERKEZ BANKASI

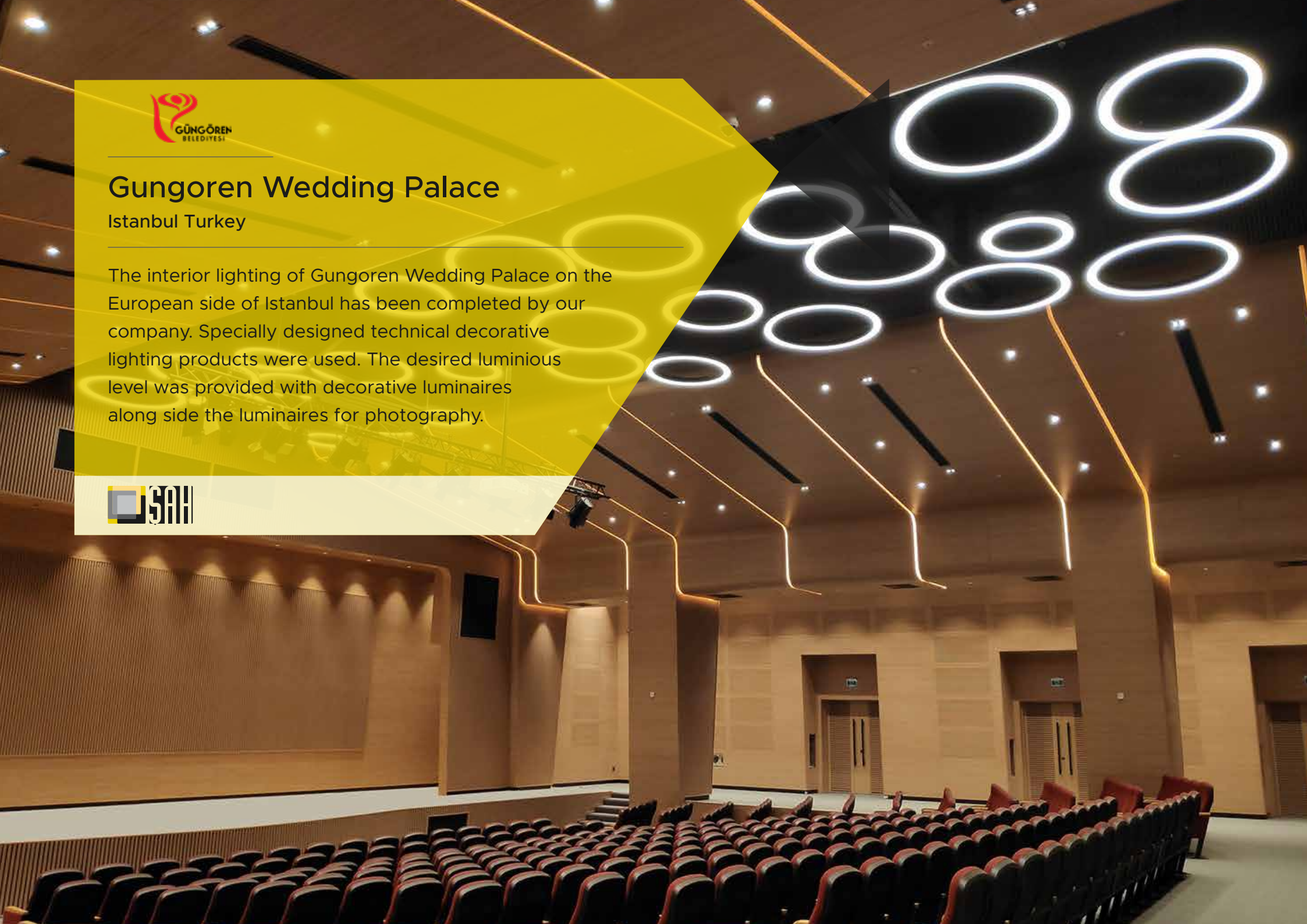




Gungoren Wedding Palace

Istanbul Turkey

The interior lighting of Gungoren Wedding Palace on the European side of Istanbul has been completed by our company. Specially designed technical decorative lighting products were used. The desired luminous level was provided with decorative luminaires along side the luminaires for photography.







Akcoat

Sakarya - Turkey

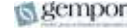
Within the scope of the project, indoor lighting project, design services and all product supplies were made by our company.





OUR REFERENCES

MAXXROYAL
RESORTS





Elektrik İnşaat Çelik Taahhüt San. ve Tic. A.Ş.

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