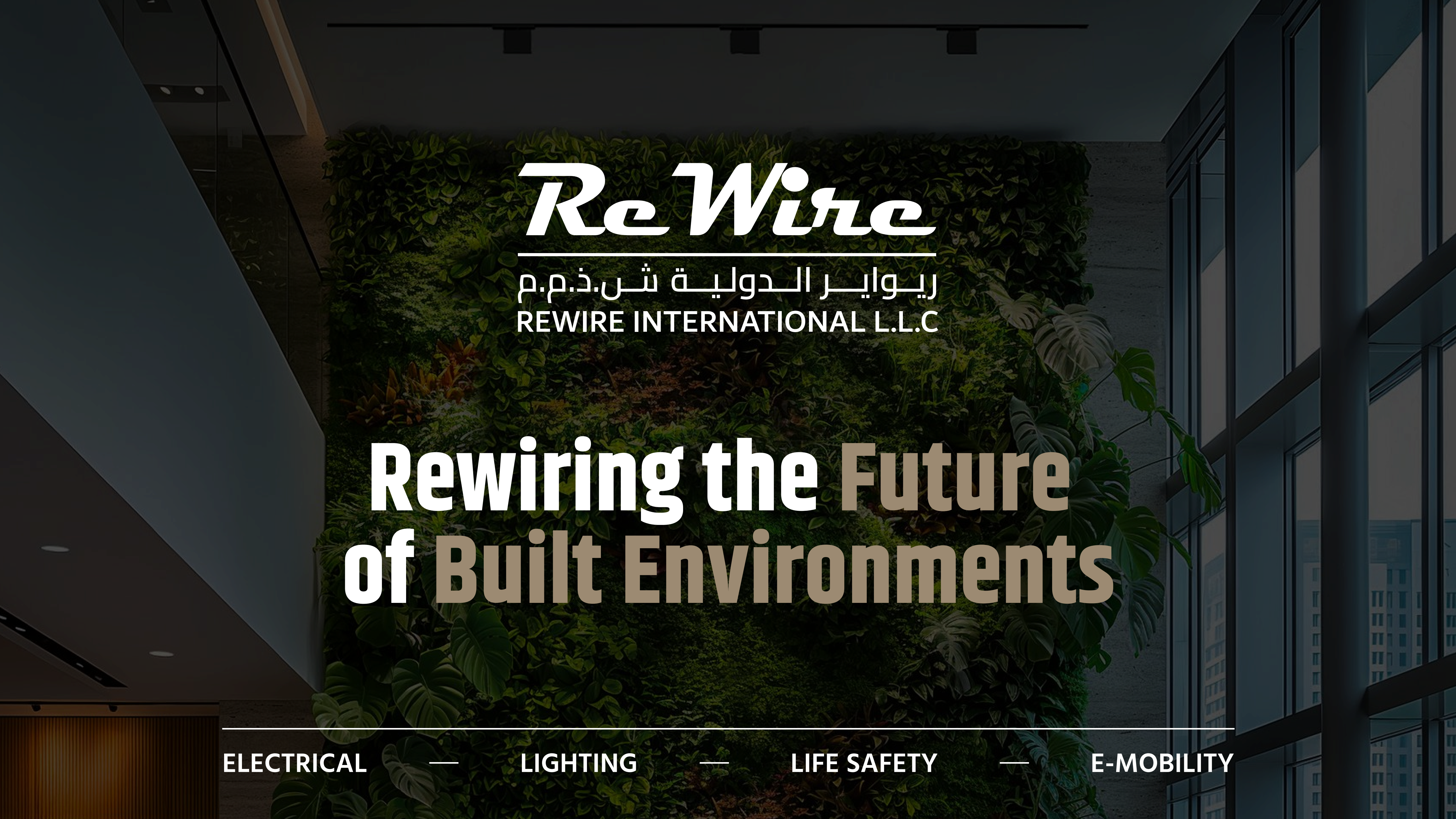


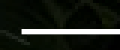


ReWire

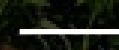
ريواير الدولية ش.ذ.م.م
REWIRE INTERNATIONAL L.L.C

Rewiring the Future of Built Environments

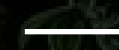
ELECTRICAL



LIGHTING



LIFE SAFETY



E-MOBILITY

Driven By **Innovation**, Grounded in **Reliability**

Our mission is to provide innovative, reliable, and sustainable solutions that empower clients to create safer, smarter, and more inspiring spaces.

Innovation

Shaping smarter spaces through advanced technology.

Reliability

Backed by a highly competent team and robust products.

Sustainability

Energy-efficient systems for the long term.

Customer-Centricity

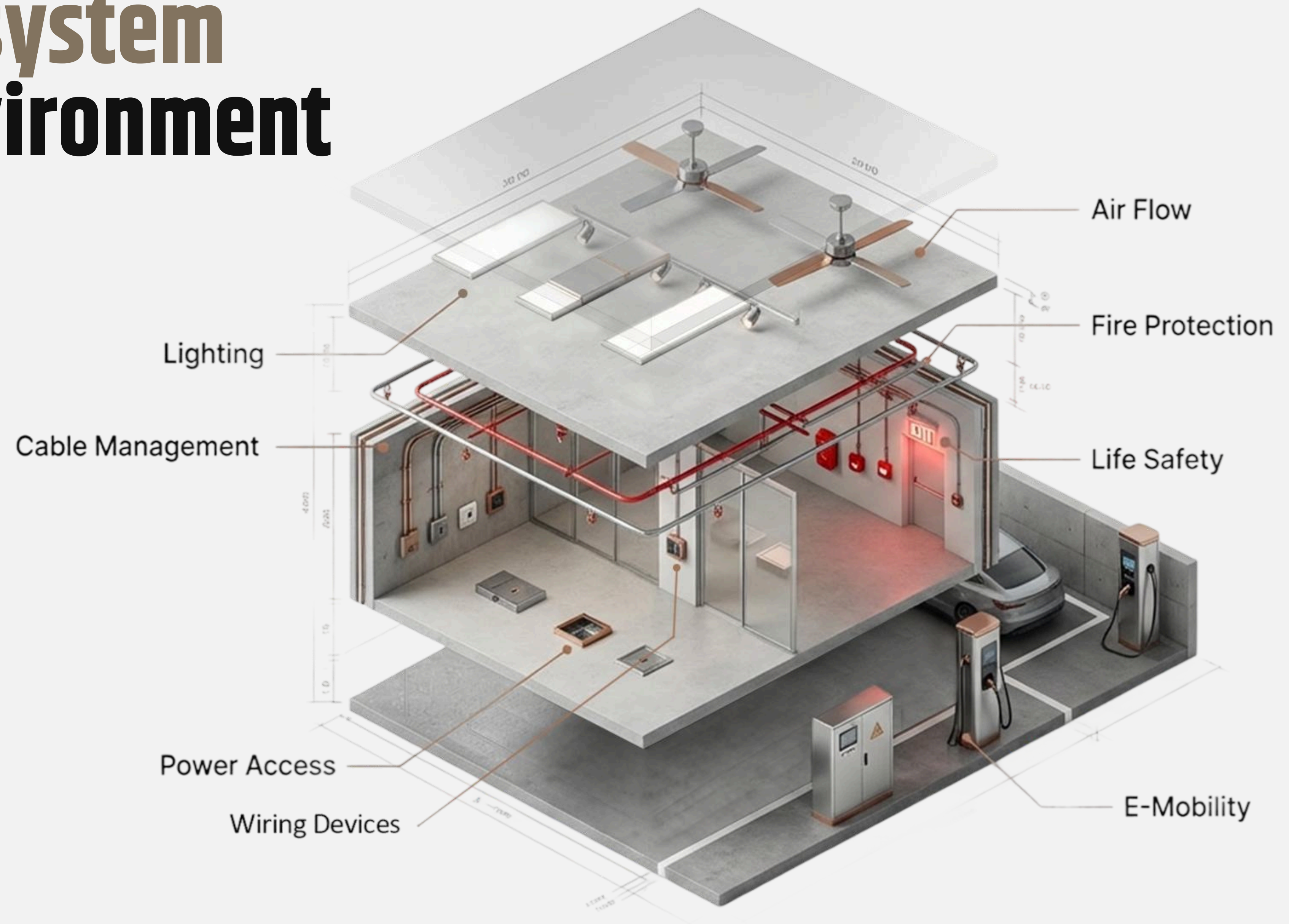
Bespoke solutions tailored to project needs.

Integrity & Excellence

Certified to global standards.

A Complete Ecosystem for the Built Environment

Rewire International provides an integrated, comprehensive platform for modern building infrastructure, uniting essential systems through innovation and expertise.



ReWire

Atmosphere & Experience: Enhancing Comfort and Design

ReWire

Lighting



Innovative systems for architectural, indoor, and outdoor applications. Engineered for safety and sustainability.

Air Flow



High-efficiency decorative and smart fans. Delivering comfort, circulation, and energy savings with quiet performance.

Infrastructure & Backbone: The Foundation of Reliability

ReWire

Cable Management



Durable conduits and junction boxes engineered for organized, safe, and compliant electrical routing. Features long-term reliability and corrosion resistance.

Power Access

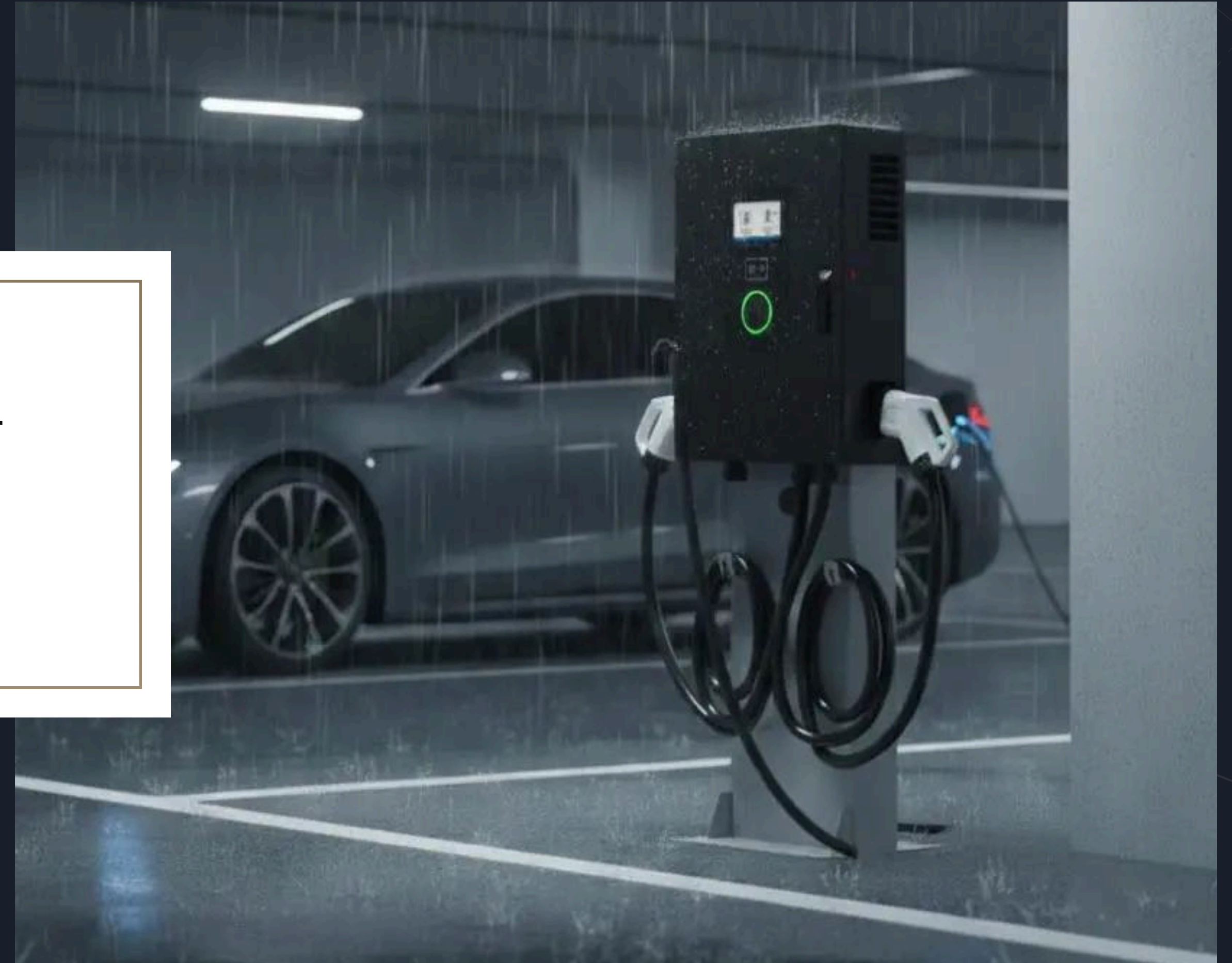


Smart, modular power distribution solutions for modern workplaces. Designed for safety, flexibility, and compliance-ensuring power is accessible where it is needed most.

Future Ready Mobility: Powering the Transition

E-Mobility & EV Charging Solutions

- Scalable EV charging infrastructure designed for residential, commercial, and public applications.
- Fast, safe, and sustainable infrastructure for the future of mobility.

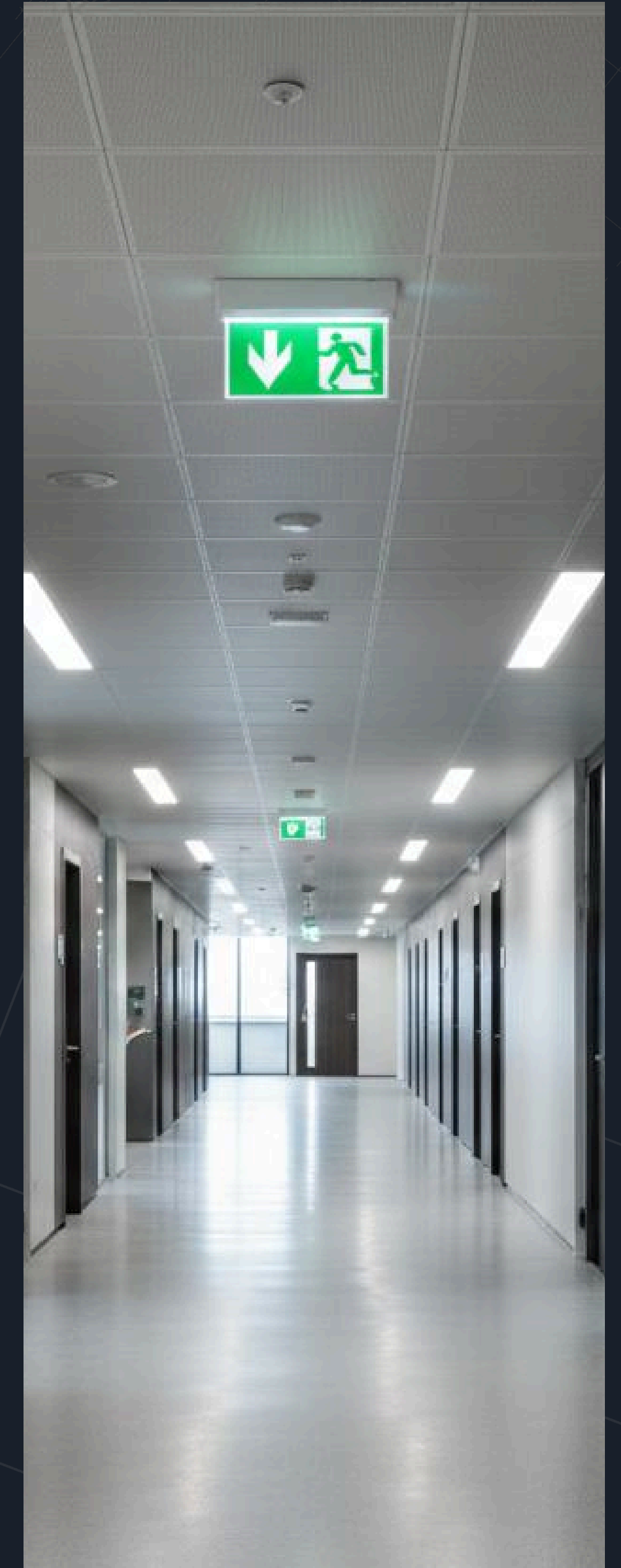


Life Safety and Fire Protection

Reliable emergency lighting, exit signage, and life-safety controls. Ensures occupant protection, code compliance, and visibility during critical situations.

comprehensive fire-resistant cables, detection, and suppression solutions. Designed for rapid response and performance across commercial, industrial, and residential projects.

ReWire





Education

Schools, Colleges, Universities, Libraries



Entertainment

Theme Parks, Cinemas, Theatres



Healthcare

Clinics, Hospitals



Hospitality

Resorts, Hotels, Restaurants



Industry

Factories, Warehouses, Oil & Gas



Culture

Schools, Colleges, Universities, Libraries



Offices

Corporate Buildings



Public Spaces

Parks, Roads, Tunnels



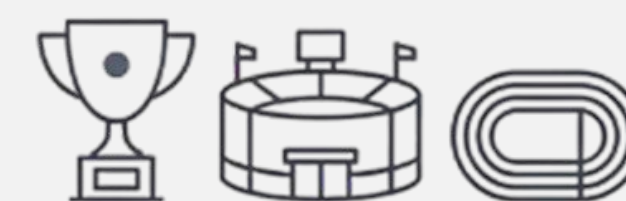
Residential

Apartments, Villas, Palaces



Retail & Mall

Supermarkets, Car Showrooms



Sports

Stadiums, Arenas



Transport

Airports Railway Stations, Ports

Projects:

Across applications

ReWire

Anantara Hotel Dubai	Hospitality
Al Wasl Tower Dubai	Residential
Lehbab Police Station Dubai	Commercial
Bur Dubai Police Station Dubai	Commercial
AMAF Headquarters Dubai	Commercial
Ahamad Al Hammadi Villa Dubai	Residential
Abu Dhabi Future School Abu Dhabi	Education
Cambridge International School Dubai	Education
JLT Specialty Clinic Dubai	Healthcare

Sheikh Zayed Housing Dubai	Residential
Reem Community Dubai	Residential
IHerb Fulfillment Center Dubai	Logistics
Unicharm Gulf Hygienic Industries Dubai	Industry
Citywalk Expansion Dubai	Community
Media One Hotel Dubai	Hospitality
Studio One Hotel Dubai	Hospitality
Al Reem Bridge Abu Dhabi Abu Dhabi	Public
Al Seef Hotel Dubai	Hospitality

The Regent At Town Square Dubai	Residential
The Holland At Town Square Dubai	Residential
The Hamilton At Town Square Dubai	Residential
The Mayfair At Town Square Dubai	Residential
Zabeel Park Dubai	Parks
Grand Hyatt Dubai	Hospitality
Mai Dubai Dubai	Industry
Execujet Aviation Group Dubai	Transport
The Valley Development Townhouses Dubai	Residential

Projects:

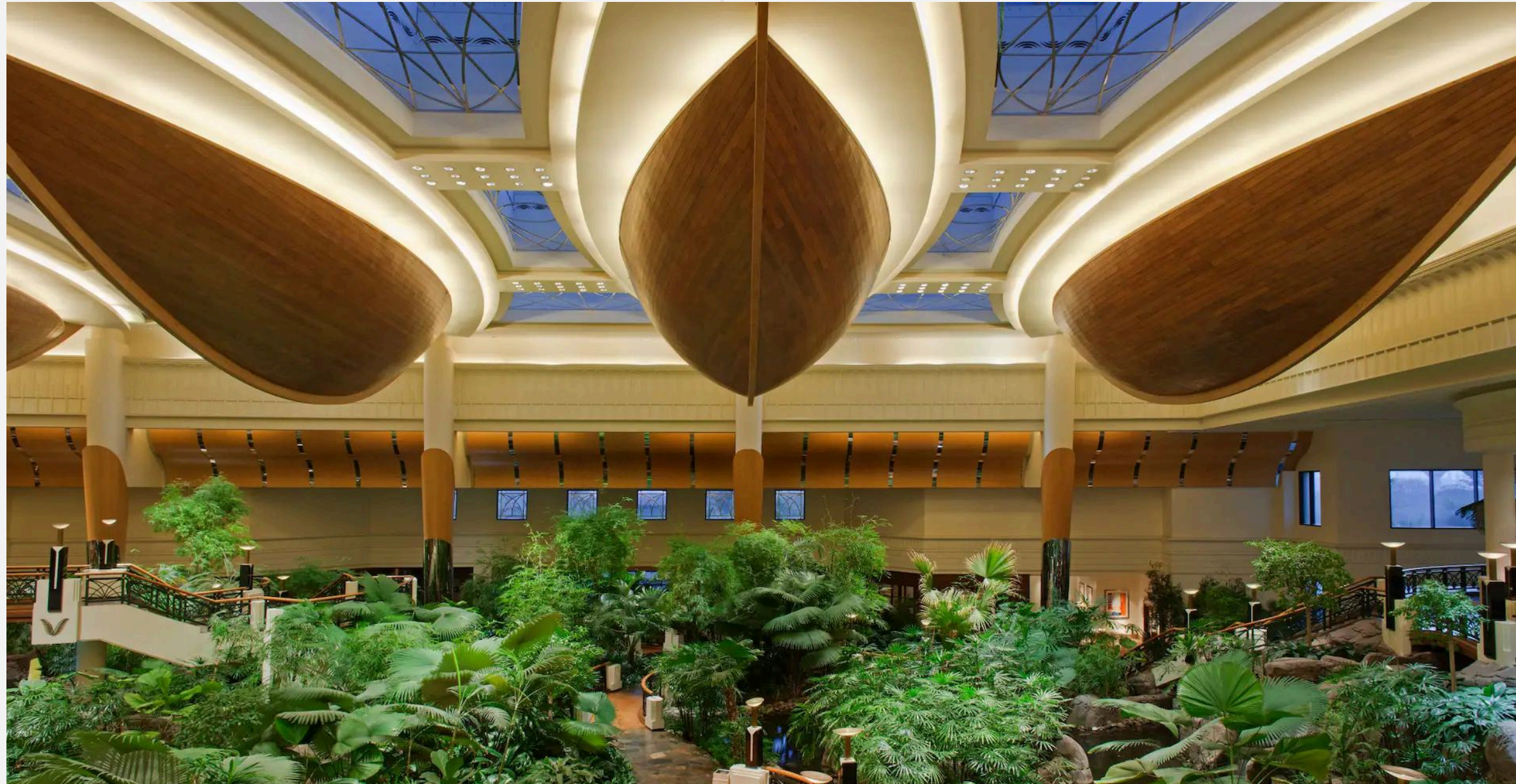
Across applications

ReWire

Mega Base (Al Masood Oil & Gas) Abu Dhabi Industry	Wavez By Danube Dubai Residential	DIC Landscape Works Dubai Landscape
Al Falah Town Center Villas Abu Dhabi Residential	Marina Star Tower Dubai Residential	Dubai British School Mira Dubai Education
Mina Zayed Tunnel Abu Dhabi Infrastructure	Ventura Mall In Damac Hills Dubai Commercial	Mirdif Park Dubai Parks
South Quay Warehouse Abu Dhabi Industry	Elderly Nursing Home Mushairif Ajman Healthcare	Streetlights For SEWA Sharjah Public
Technopark Warehouse Dubai Industry	Emirati Schools Pan UAE Education	Al Nakhla Park Dubai Parks
Dubai London Hospital Dubai Healthcare	Golf Course Maintenance Building Dubai Commercial	Amazon Hazmat Warehouse At Dubai South Dubai Industry
Al Seyouh Mall Dubai Commercial	One By Binghatti Dubai Residential	Etihad Rail Transmission Substation Works Dubai Transport
Effluent Plant, Jafza Dubai Industrial	Al Hamriya School Sharjah Education	Deira Night Market Village Redevelopment Dubai Commercial
RAK Porcelain Ras Al Khaimah Industry	Abu Dhabi Ports Abu Dhabi Infrastructure	

Project Spotlight: Hospitality & Residential

ReWire



Grand Hyatt

Hospitality environments where mood and design are paramount.



Victory Heights Community

Large-scale Residential Application

These projects utilize Jupiter's ability to blend into high-end architectural visions.

Project Spotlight: Urban & Commercial

ReWire



City Walk

A major retail/lifestyle destination, proving reliability in high-traffic public zones.



Nashama Regent

Demonstrating commercial scalability.

Capacity for large-scale, reliable deployment in complex commercial ecosystems.

Project Spotlight:

Entertainment & Heritage

ReWire



Zabeel Park

A vibrant entertainment destination featuring dynamic landscape illumination, proving reliability and safety in high-traffic public environments.



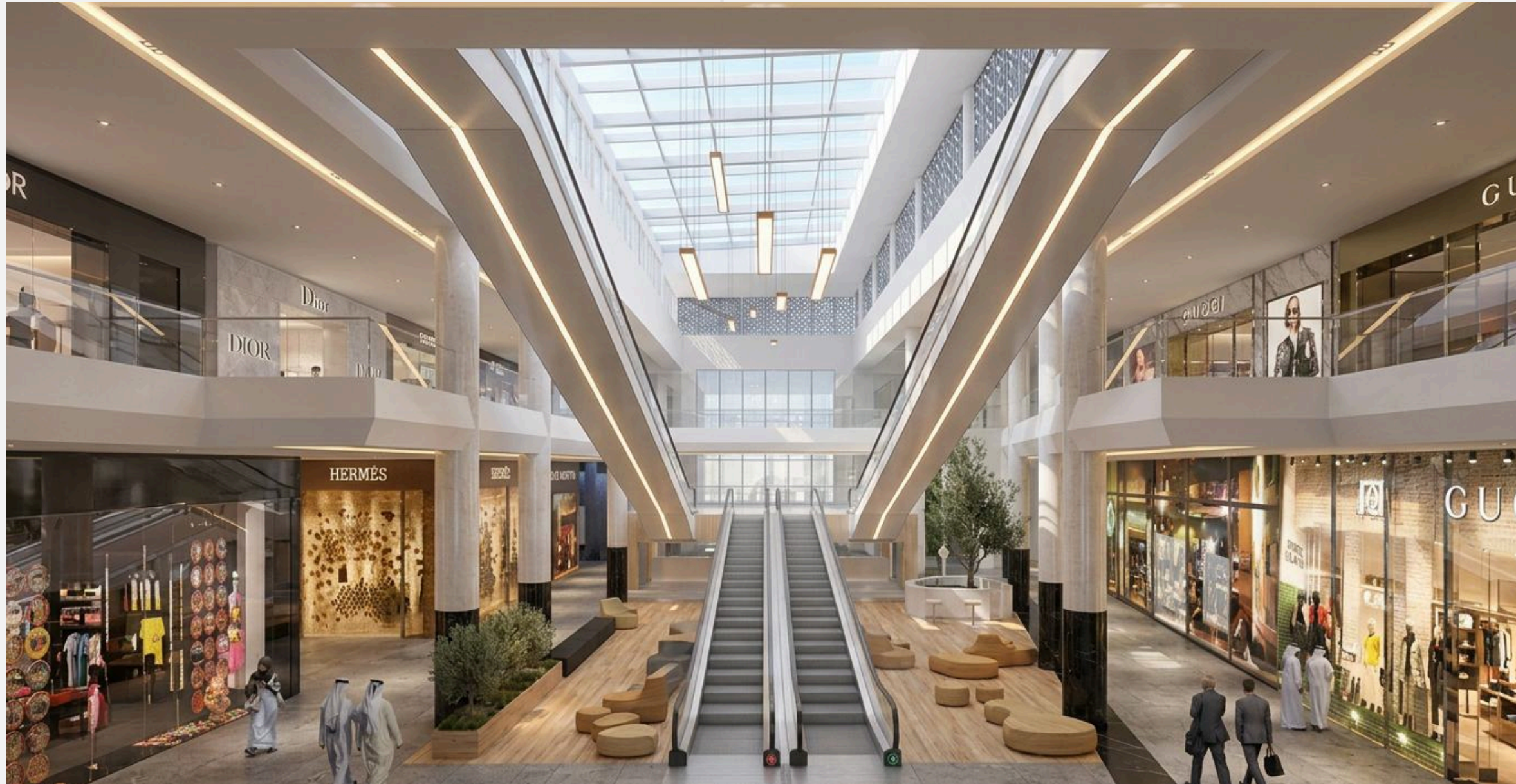
Najd Al Meqsar

A meticulously restored historical sanctuary utilizing subtle architectural lighting, balancing modern infrastructure with the preservation of cultural heritage.

Capacity for large-scale, reliable deployment in complex commercial ecosystems.

Project Spotlight: Retail & Education

ReWire



Suyouh Mall

A flagship retail ecosystem showcasing highly reliable, aesthetic illumination for busy commercial spaces.



Emirates Aviation College

A state-of-the-art educational facility demonstrating specialized, scalable outdoor lighting on a massive scale.

Capacity for large-scale, reliable deployment in complex commercial ecosystems.

Project Spotlight: Healthcare & Industry

ReWire



Dubai London Hospital

An advanced medical center showcasing durable, glare-free lighting tailored for strict healthcare and compliance standards.



Mai Dubai Factory

A leading industrial production hub demonstrating scalable, high-efficiency illumination across extensive manufacturing floors.

Capacity for large-scale, reliable deployment in complex commercial ecosystems.

Project Spotlight:

Public Spaces & Offices

ReWire



Khorfakkan Street lights

A major public infrastructure development, proving lighting reliability and uniform visibility across high-traffic roadways.



BM Training Centre and Learning Academy

A premium corporate training facility, showcasing highly functional and aesthetic interior lighting systems for modern offices.

Capacity for large-scale, reliable deployment in complex commercial ecosystems.

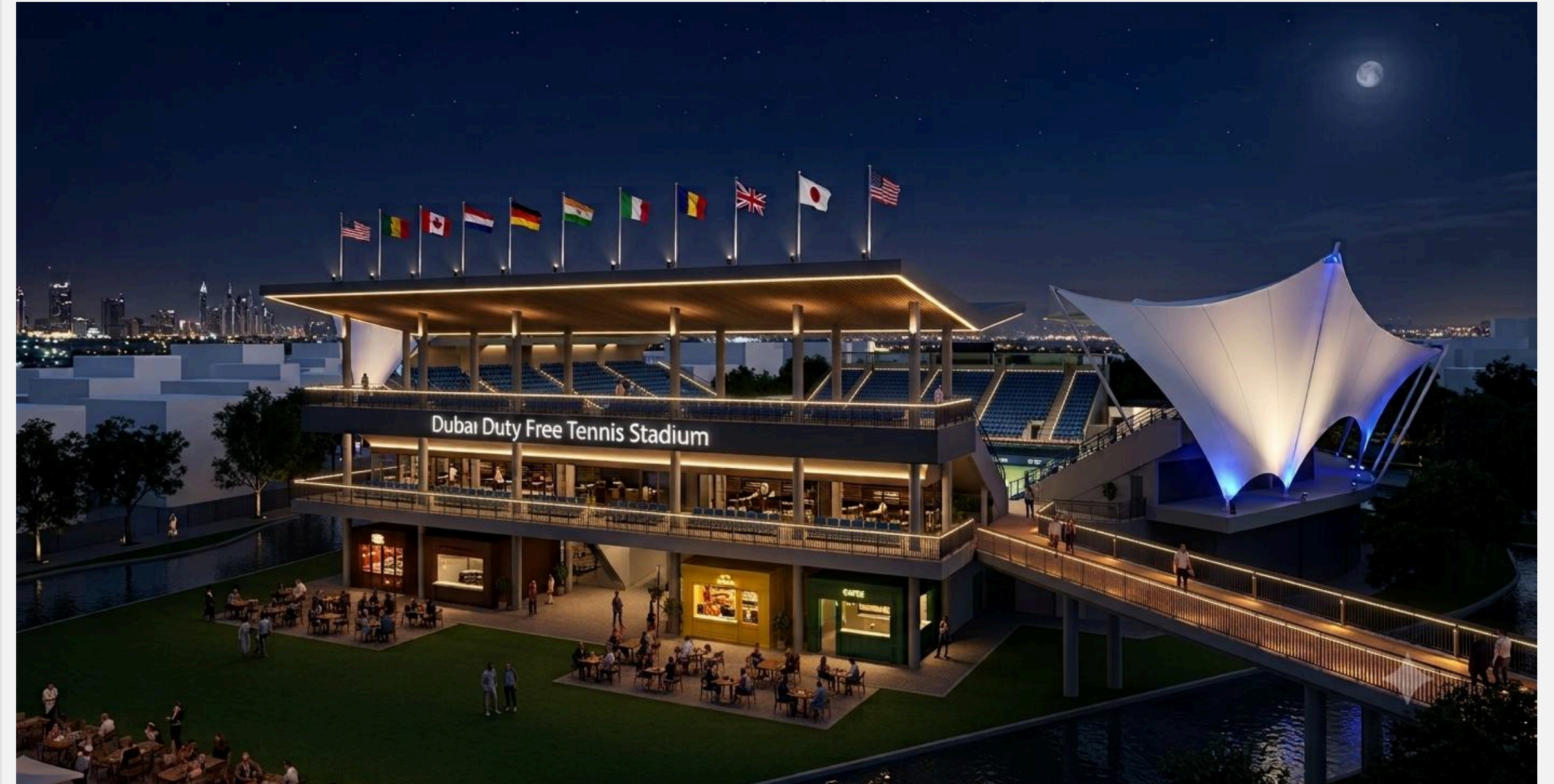
Project Spotlight: Transport & Sports

ReWire



Sharjah International Airport

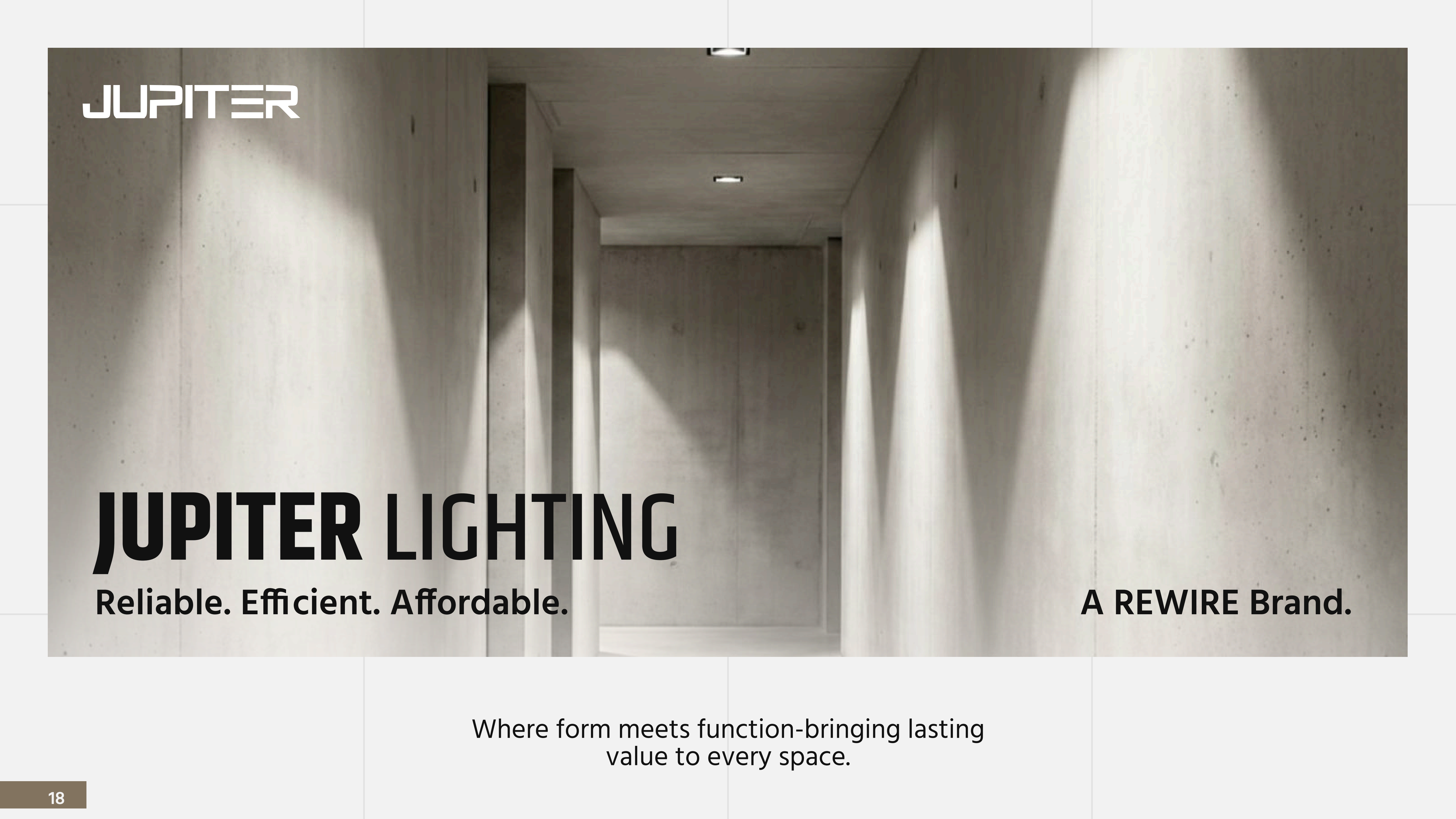
A major transportation hub, demonstrating robust, large-scale public infrastructure lighting for high-traffic transit sectors.



Dubai Tennis Stadium

A world-class sports destination, highlighting sophisticated architectural lighting integration across high-end environments.

Capacity for large-scale, reliable deployment in complex commercial ecosystems.



JUPITER

JUPITER LIGHTING

Reliable. Efficient. Affordable.

A REWIRE Brand.

Where form meets function-bringing lasting
value to every space.



Illuminating Everyday Spaces with Purpose.

We are committed to delivering standard and economical lighting solutions that strike the right balance between cost-efficiency, durability, and quality. Whether for offices, retail spaces, or homes, we provide that works—simply, efficiently, and reliably.



Purpose: Functional needs of residential, commercial, and industrial environments.



Reliability: Dependable performance and easy integration.



Reliability: Dependable performance and easy integration.

DESIGN THINKING



Every product begins with a philosophy where aesthetic refinement meets technical performance seamlessly. We don't just manufacture; we engineer for the modern environment.

From architectural downlights to outdoor luminaires, our approach balances the visual with the technical.

JUPITER

Interior Architecture: The Sleek Collection

JUPITER



Recessed Downlights
Seamless integration for a clean, elegant look.

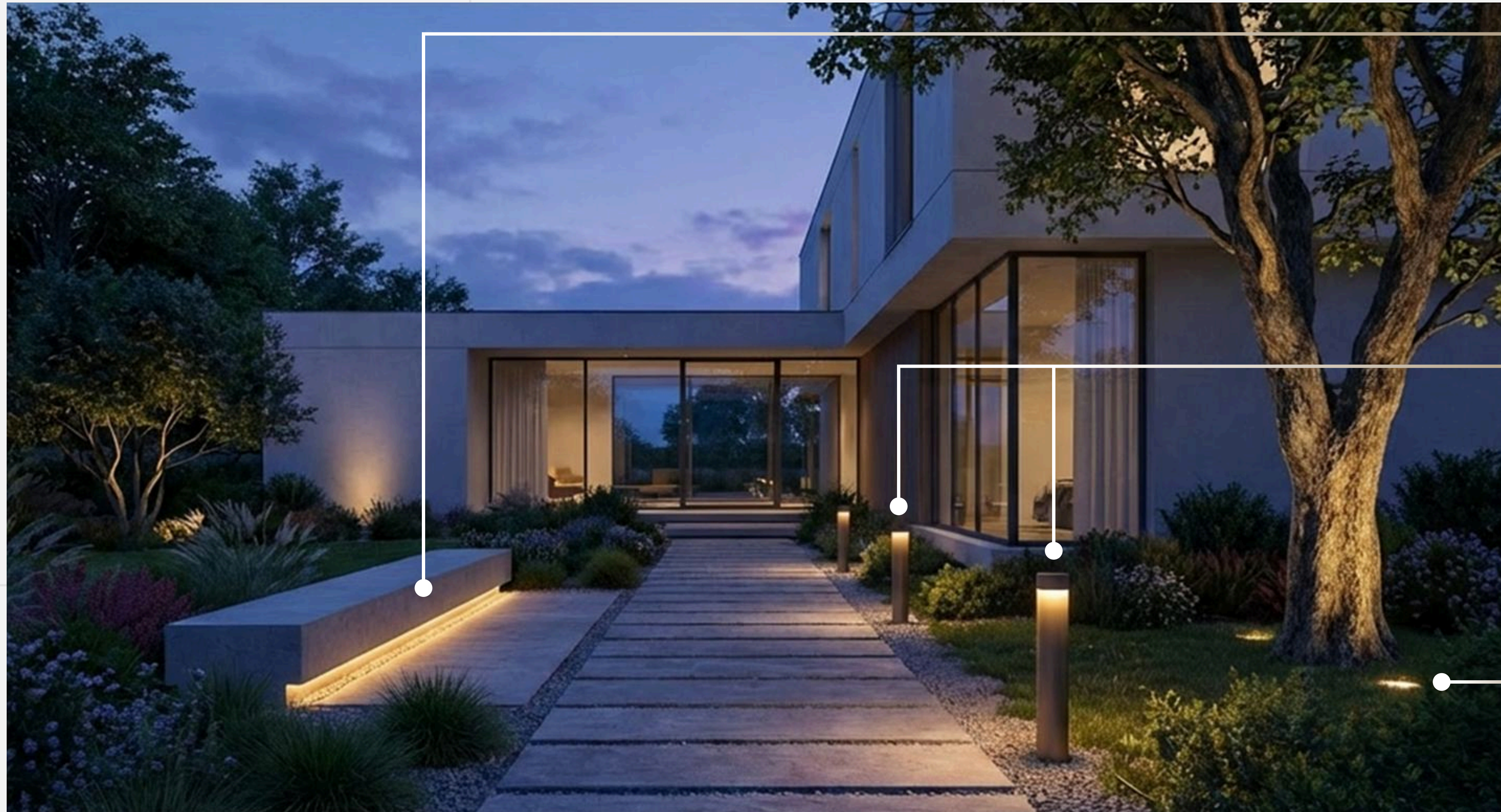
LED Flex
Flexible, vibrant strips for endless creative designs.

Magnetic Tracklights
Stylish, adjustable systems offering total design freedom.

Wall Recessed
Discreet lighting for hallways, stairs, and ambient accents.

Exterior & Landscape: The Resilient Collection

JUPITER



Linear Outdoor

Weather-resistant lights enhancing landscapes and architectural features.

Bollards

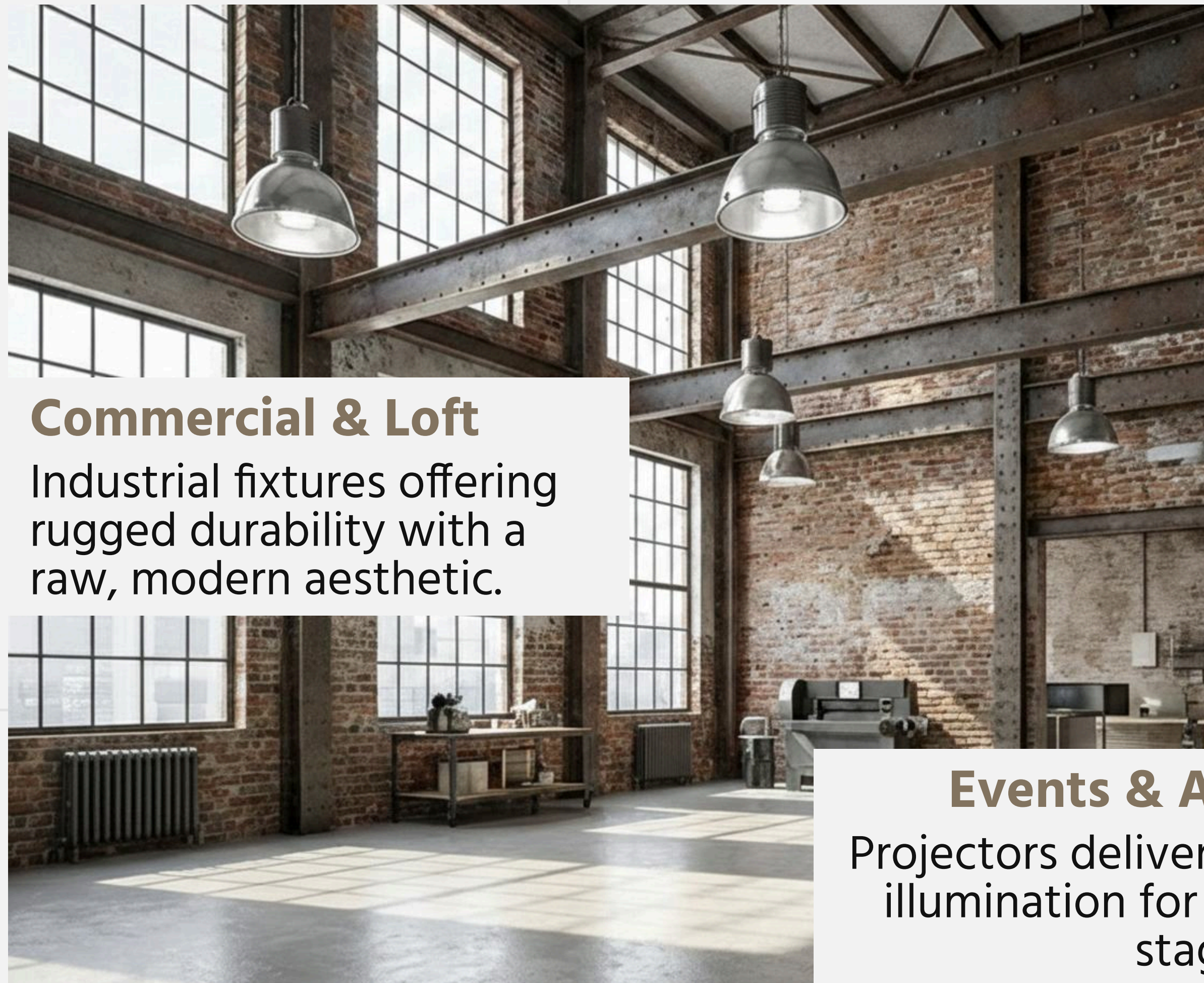
Compact fixtures ensuring safety and style along pathways.

Inground

Ground-level solutions for dramatic effects and subtle illumination.

Urban & Industrial: The Power Collection

JUPITER



Commercial & Loft

Industrial fixtures offering rugged durability with a raw, modern aesthetic.

Events & Architecture

Projectors delivering high-powered illumination for highlighting and staging.

Civic & Public

Street Lights providing durable, energy-efficient solutions for safe public areas.

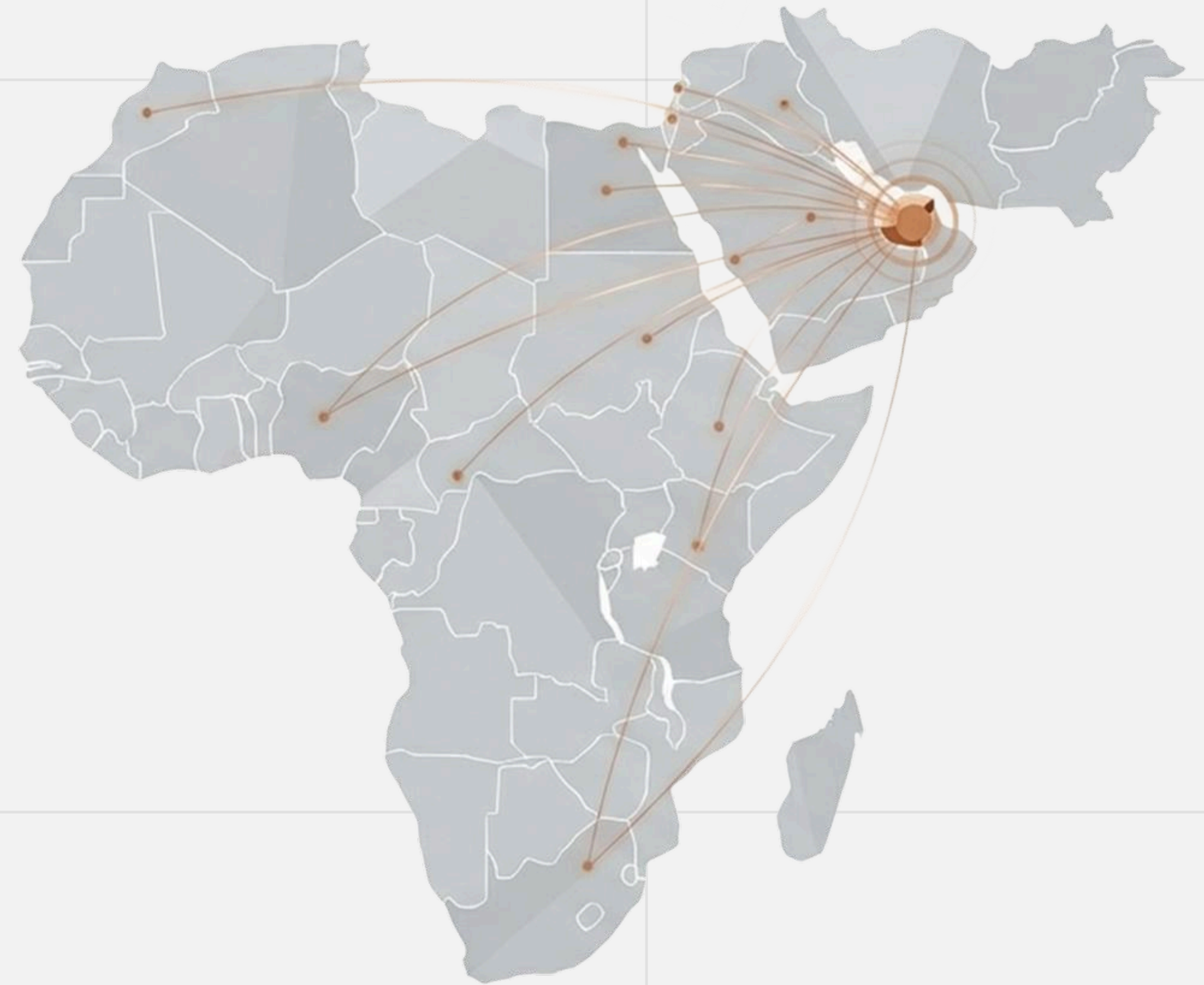


Regional Expertise, Global Standards

JUPITER

We are the preferred partner for architects, consultants, and interior designers across the Middle East and Africa.

- Comprehensive techno-commercial solutions.
- Deep understanding of local compliance and global certification.
- A portfolio that includes iconic buildings and large-scale installations.



ENGIX PRO ROUND CONE

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø55MM Ø75MM Ø85MM Ø90MM Ø100MM Ø125MM

Ø150MM



ADJUSTABLE

To Maximum 15° Angle



FIXED



TRIM



TRIMLESS



Wattage ranging from
6W to **41W**



Lumens Output ranges
from **500LM** to **3700LM**



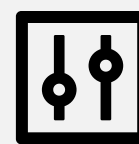
Beam angles vary from
9° to **50°**



CRI of **CRI90** and **CRI95**



CCT from
2700K to **6000K**.



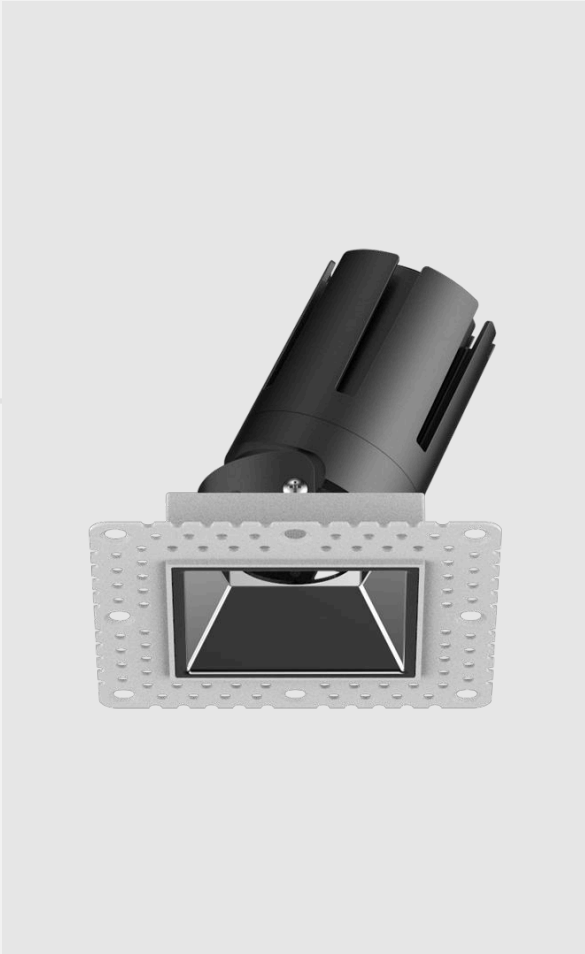
Controls include
DALI ,TRIAC ,ON/OFF
& **0/1-10V**

ENGIX PRO SQUARE CONE

Precision & Aesthetics

JUPITER

MORE DETAILS



75*75MM 78*78MM 85*85MM 100*100MM

125*125MM 150*150MM

ADJUSTABLE FIXED TRIM TRIMLESS

To Maximum 15° Angle

 Wattage ranging from 6W to 41W	 Lumens Output ranges from 500LM to 3700LM	 Beam angles vary from 9° to 50°
 CRI of CRI90 and CRI95	 CCT from 2700K to 6000K.	 Controls include TRIAC , ON/OFF , DALI & 0/1-10V

ENGIX PRO ROUND PINHOLE

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø75MM

Ø95MM



ADJUSTABLE

To Maximum 15° Angle



FIXED



Wattage ranging from
6W to **15W**



Lumens Output ranges
from **500LM** to **1200LM**



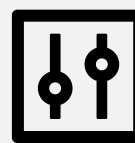
Beam angles vary from
9° to **50°**



CRI of **CRI90** and **CRI95**



CCT from
2700K to **6000K**.



Controls include
ON/OFF , **DALI** , **TRIAC**
& **0/1-10V**

ENGIX CORE ROUND

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø90MM

Ø115MM

Ø140MM

Ø170MM

Ø200MM

115*115MM

170*170MM

200*200MM



ROUND



SQUARE



Wattage ranging from
15W to **42W**



Lumens Output ranges
from **1350LM** to **3780LM**



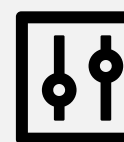
Beam angle of **100°**



CRI of **CRI80** and **CRI90**



CCT from
2700K to **6000K**.



Controls include
DALI, ON/OFF, 0/1-10V
& **TRIAC**

ENGIX CORE CONE

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø55MM

Ø75MM

Ø95MM

55*55MM

75*75MM

95*95MM



ROUND



SQUARE



Wattage ranging from
8W to 40W



Lumens Output ranges
from **800LM to 4000LM**



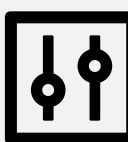
Beam angles vary from
15° to 60°



CRI of **CRI80** and **CRI90**



CCT from
2700K to 6000K.



Controls include
ON/OFF, DALI, TRIAC
& **0/1-10V**

LINUX LINEAR SURFACE / SUSPENDED

Precision & Aesthetics

JUPITER

MORE DETAILS



L1130MM

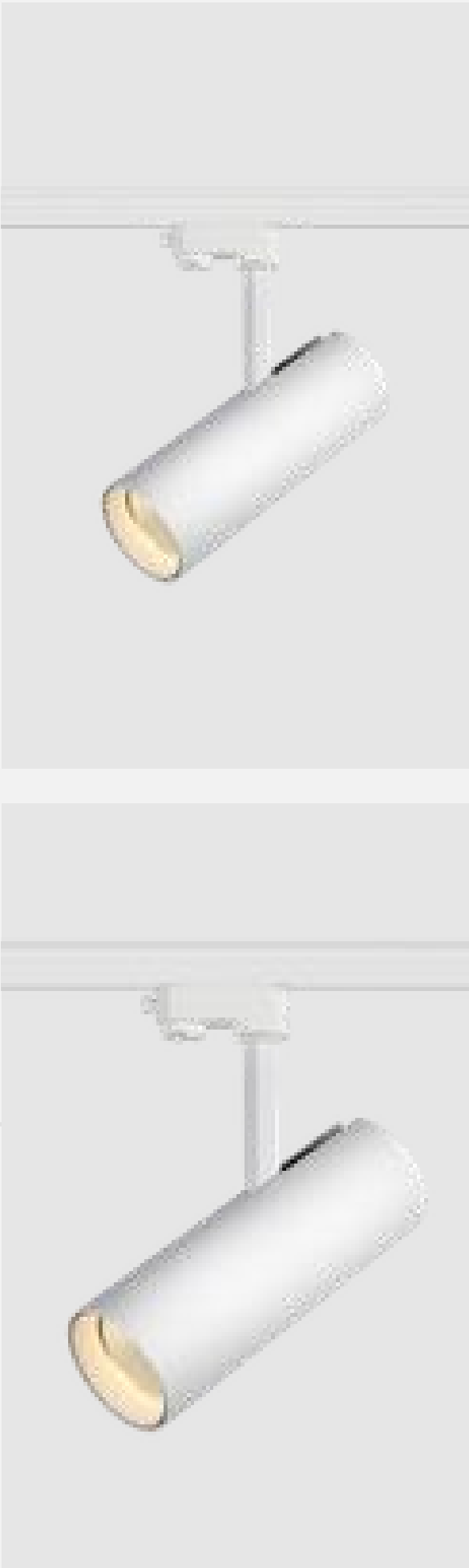
 Wattages include 24W & 25W	 Lumens Output of 2400LM	 Beam angle of 120°
 CRI includes CRI80 and CRI90	 CCT ranges from 2700K to 6000K	 Controls include ON/OFF, 0/1-10V, DALI & TRIAC

TRAX CYLINDER I

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø62MM

Ø72MM

Ø85MM

Ø100MM



Wattage ranging from
10W to 50W



Lumens Output
ranges from
1000LM to 5000LM



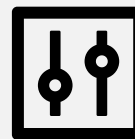
Beam angle ranges from
12° to 60°



CRI includes
CRI80 and CRI90



CCT ranges from
2700K to 5000K



Controls include
**0-1/10V, DALI, ON/OFF
& TRIAC**

MAGTRAX

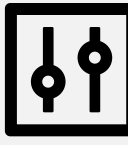
Precision & Aesthetics

JUPITER

MORE DETAILS



- L120.5MM
- L235MM
- L306MM
- L349MM
- L462MM
- L601MM
- L690MM
- L896MM

 Wattage ranging from 6W to 36W	 Lumens ranges from 520LM to 3135LM	 Beam angles includes 24° , 38° and 120°
 CRI includes CRI80 and CRI90	 CCT ranges from 2700K to 5000K	 Controls include ON/OFF, 0/1-10V, DALI & TRIAC

XOFLEX FLEXIBLE STRIP

Precision & Aesthetics

JUPITER

MORE DETAILS



W8MM

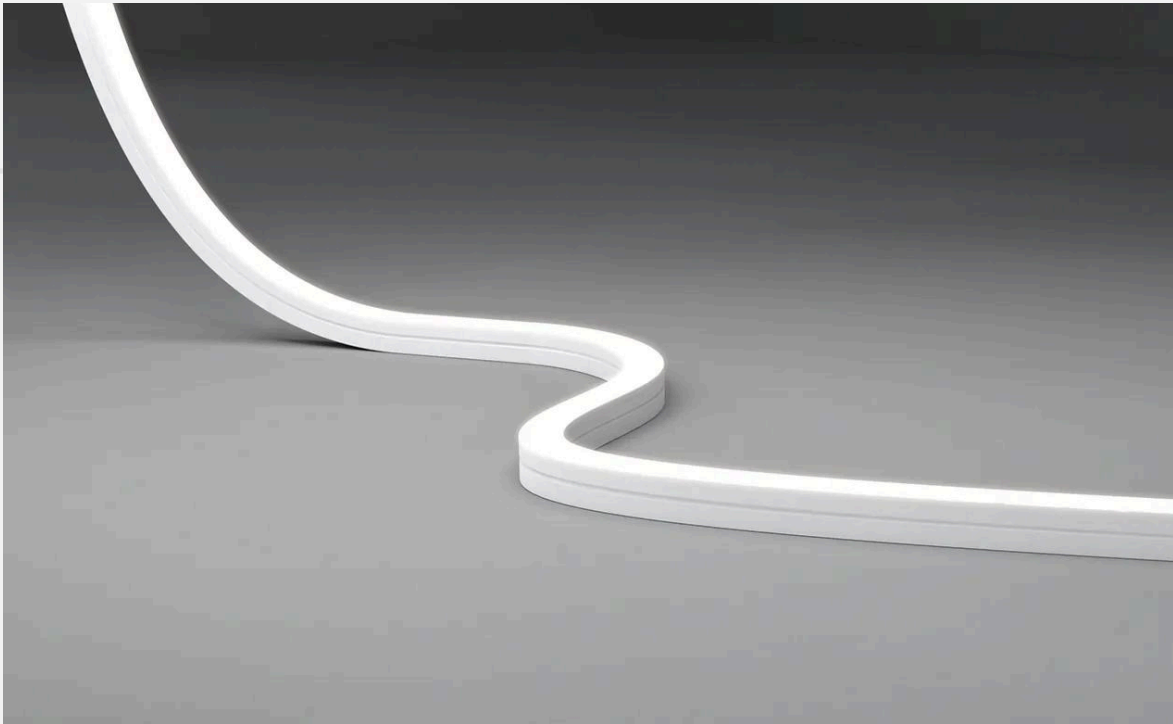
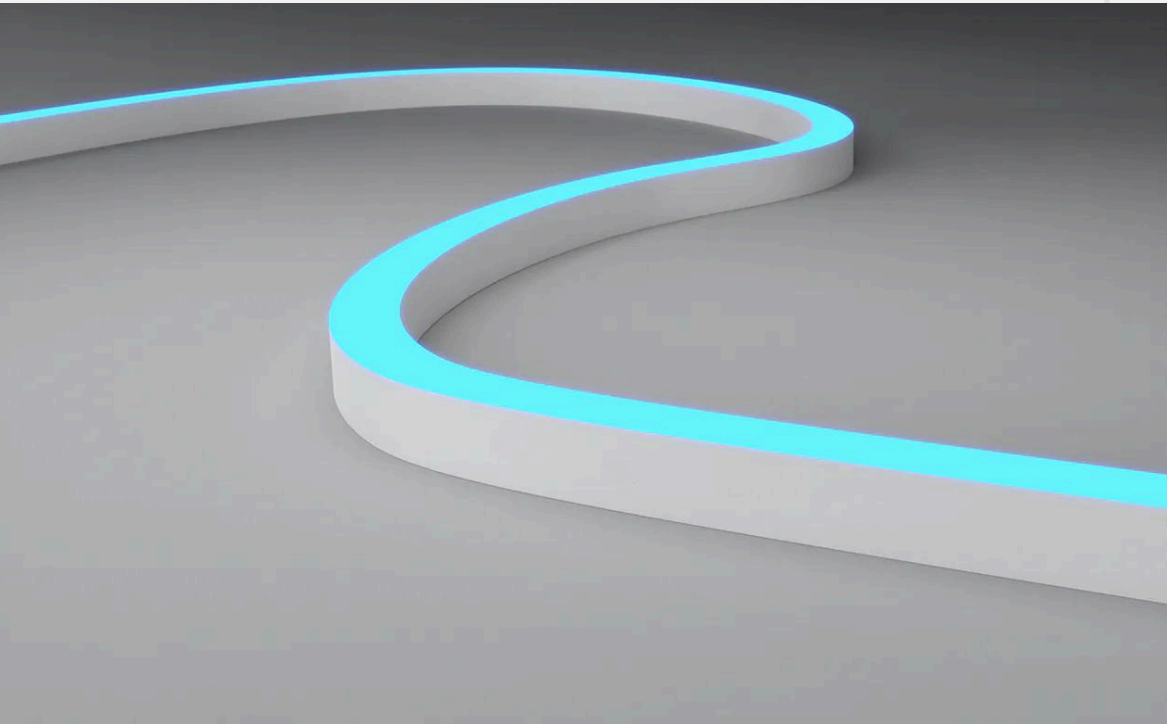
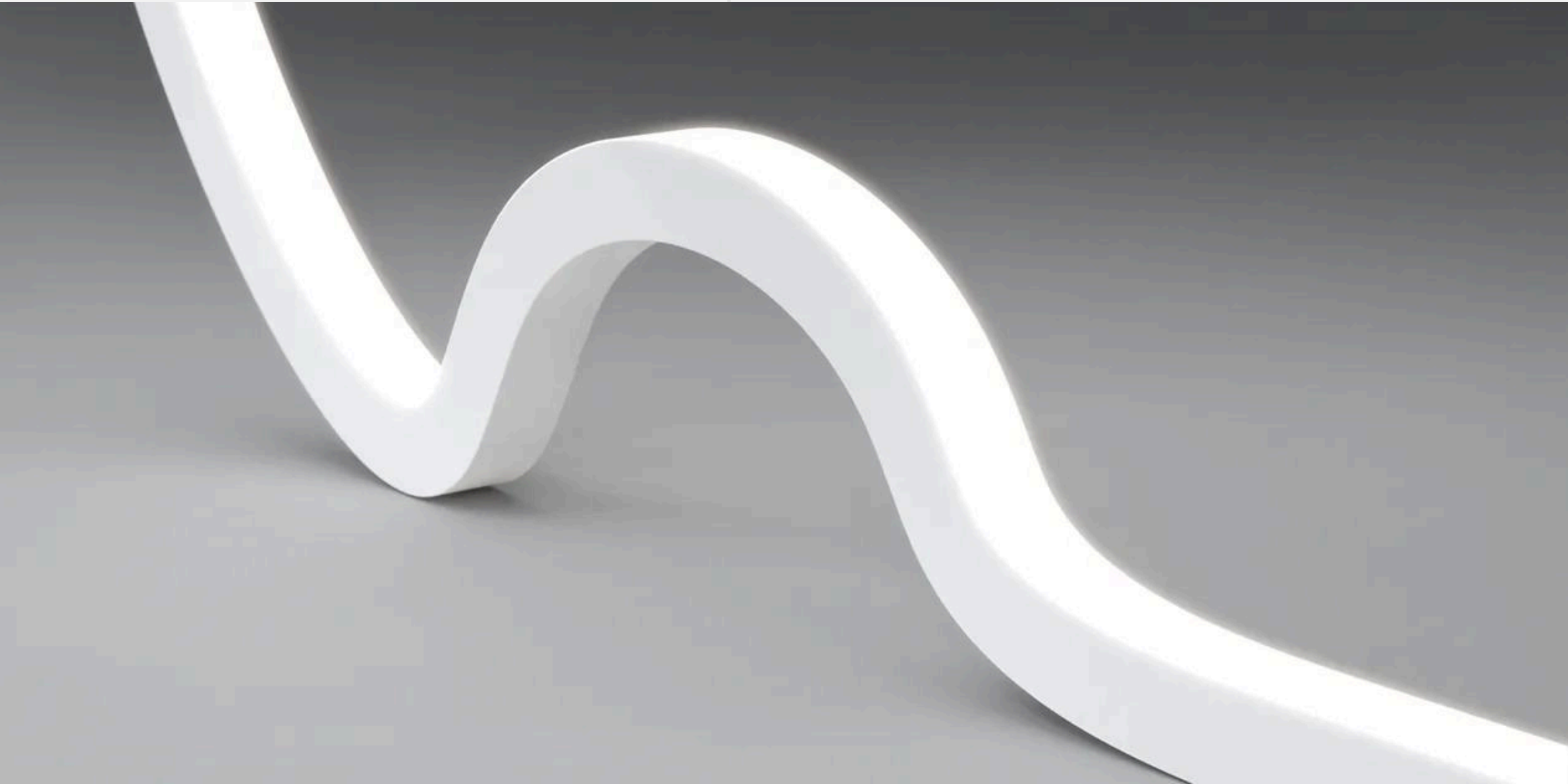
 Wattage range from 4.8W to 14.4W	 Lumens Output range from 480LM to 1200LM	 Beam angle includes 120° and 150°
 CRI includes CRI80 and CRI90	 CCT ranges from 2700K to 6000K	 Controls include 0/1-10V, ON/OFF, DALI, DMX and TRIAC

FLEXION FLEXIBLE STRIP

Precision & Aesthetics

JUPITER

MORE DETAILS



D2W STD

RGB DMX STD

RGB SPI STD

RGBW DMX STD

RGBW STD

SINGLE COLOR HE

SINGLE COLOR LL

SINGLE COLOR STD

SINGLE COLOR UL

SINGLE COLOR UW

TUNABLE STD

 Wattage ranges from 4.8W to 18W	 Lumens Output ranges from 150LM to 1343LM	 Beam angles include 120° and 160°
 CRI includes CRI80 and CRI90	 CCT ranges from 2700K to 6000K, RGB, RGBW, RED, GREEN, BLUE, AMBER	 Controls include ON/OFF, 0/1-10V, DMX, DALI and TRIAC

CEILUME CYLINDER II

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø75MM

Ø95MM

Ø115MM

Ø140MM

Ø170MM

Ø205MM



Wattage ranging from
15W to 50W



Lumens Output ranges
from **1000LM** to
5000LM



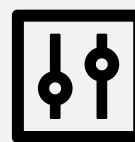
Beam angles vary from
20° to 60°



CRI of **CRI80** and **CRI90**



CCT from
2700K to **6000K**.



Controls include
DALI, ON/OFF, 0/1-10V
& **TRIAC**

ROOFBAY ROUND I

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø280MM

Ø300MM



Wattage ranging from
40W to 200W



Lumens Output ranges
from **9600LM to 30000LM**



Beam angle of
60° | 90° | 105°



CRI includes
CRI80 & CRI90



CCT from
**60W | 80W | 100W,
90W | 120W | 150W,
110W | 150W | 200W**



Controls include
**DALI , ON/OFF &
0/1-10V**

ZONEX ROUND BAY I

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø208MM

Ø248MM

Ø268MM

Ø298MM

Ø333MM



Wattage ranging from
40W to 200W



Lumens Output ranges
from **4000LM to
20000LM**



Beam angle of **60°**



CRI of **CRI70**



CCT from
2700K to 6000K.



Controls of **ON/OFF**

PALISADE ROUND

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø80MM

Ø100MM

Ø130MM

 Wattage range from 8W to 25W	 Lumens Output ranges from 990LM to 2970LM	 Beam angles range from 10° to 60°
 CRI includes CRI80 and CRI90	 CCT ranges from 2700K to 6000K	 Controls include ON/OFF, DALI & 0/1-10V

PALISADE SQUARE

Precision & Aesthetics

JUPITER

MORE DETAILS



70*70MM

100*100MM

 Wattage range from 6W to 18W	 Lumens Output ranges from 480LM to 1840LM	 Beam angles range from 12° to 32°
 CRI includes CRI80 and CRI90	 CCT ranges from 2700K to 6000K	 Controls include 0/1-10V, ON/OFF & DALI

LUMILINE LINEAR III

Precision & Aesthetics

JUPITER

MORE DETAILS



L1130MM

 Wattage ranges from 12W to 40W	 Lumens Output ranges from 1100LM to 3680LM	 Beam angle ranges from 15° to 60°
 CRI of CRI80	 CCT ranges from 2700K to 6000K	 Controls include ON/OFF, DALI and TRIAC

INGREX FIXED

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø88MM

Ø94MM

Ø108MM

Ø133MM

Ø135MM

Ø153MM

Ø178MM

Ø200MM

Ø240MM



Wattage range from
3W to 48W



Lumens Output ranges
from **225LM to 3600LM**



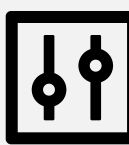
Beam angles range from
10° to 60°



CRI of **CRI80**



CCT ranges from
2700K to 6000K



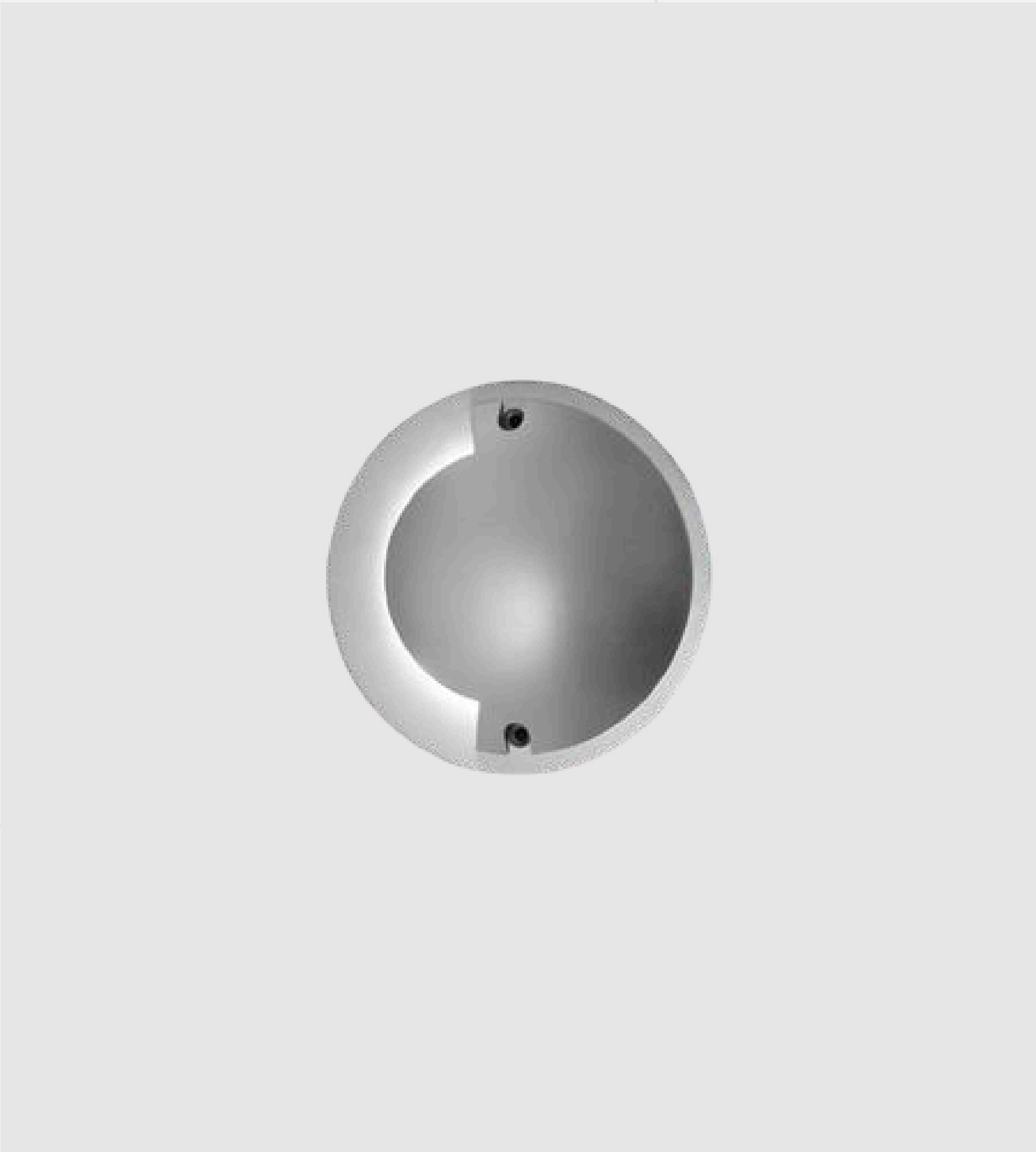
Controls include **DALI ,
ON/OFF, DMX &
0/1-10V**

INGREX HALO

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø70MM Ø116MM Ø169MM

 Wattages include 5W to 8.5W	 Lumens Output ranges from 108LM to 420LM	 Beam angles include 170°, 2*80° and 4*40°
 CRI of CRI80 and CRI90	 CCT ranges from 2700K to 6000K	 Controls include 0/1-10V, TRIAC, ON/OFF & DALI

ARCOS CYLINDER I

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø65MM

Ø95MM

Ø140MM



Wattage range from
3W to 60W



Lumens Output ranges
from **240LM to 6000LM**



Beam angles range from
15° to 70°



CRI includes
CRI80 and CRI90



CCT ranges from
2700K to 6000K



Controls include **DALI,**
ON/OFF, DMX &
0/1-10V

STELOS REFLECTOR

Precision & Aesthetics

JUPITER

MORE DETAILS



H400MM

H600MM

H800MM

H1000MM



Wattage includes
12W | 16W | 20W



Lumens Output ranges
from **480LM** to **1700LM**



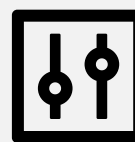
Beam angle of **360°**



CRI of **CRI80**



CCT includes
3000K, 4000K, 5000K
(ADJUSTABLE)



Controls include
0-1/10V, DALI, ON/OFF

STELOS LOUVRE

Precision & Aesthetics

JUPITER

MORE DETAILS



H400MM

H600MM

H800MM

H1000MM

H1200MM



Wattage includes
12W | 16W | 20W,
10W to 24W



Lumens Output ranges
from **600LM** to **1800LM**



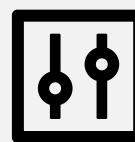
Beam angle of **360°**



CRI of **CRI80**



CCT ranges from
2700K to **5000K**



Controls include
ON/OFF, DALI &
0/1-10V

SOLUNA BOLARD II

Precision & Aesthetics

JUPITER

MORE DETAILS



Ø220MM

 Wattage of 3W	 Lumens Output of 150LM	 Beam angle of 360°
 CRI of CRI80	 CCT of 3000K-4000K-5000K (ADJUSTABLE)	 Control of SOLAR

ALTUS ROUND I

Precision & Aesthetics

JUPITER

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Ø500MM



Wattage of **30W**



Lumens Output of
2800LM



Beam angle of **360°**



CRI of **CRI80**



CCT ranges from
2700K to 6000K



Controls include
**0-1/10V, DALI and
ON/OFF**

STRATOS PRO

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L568*W200MM

L613*W240MM

L683*W260MM

L693*W300MM

L793*W300MM

 Wattage range from 30W to 310W	 Lumens Output ranges from 4800LM to 49600LM	 Beam angles include Type I, Type III and Type IV
 CRI of CRI70	 CCT ranges from 3000K to 5700K	 Controls include 0-1/10V, DALI, ON/OFF

STRATOS CORE

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L580*W165MM

L580*W195MM

L664*W215MM

L718*W230MM



Wattage range from
25W to 200W



Lumens Output ranges
from **3750LM** to
30000LM



Beam angle ranges from
Type I to Type V



CRI of **CRI70**



CCT ranges from
3000K to **5700K**



Controls include
**0-1/10V, DALI &
ON/OFF**

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L283*W191MM

L333*W264MM

L393*W276MM

L466*W332MM

L507*W381MM



Wattage range from
50W to 300W



Lumens Output ranges
from **8000LM** to
48000LM



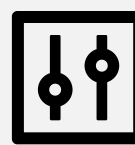
Beam angle ranges from
15° to 110° & **T2 to T4**



CRI of **CRI70**



CCT ranges from
2700K to **6000K**



Controls include
ON/OFF, DALI &
0/1-10V

AMPHI RECTANGLE

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L351*W115MM

L353*W188MM

L353*W196MM

L689*W209MM



Wattage ranges from
200W to **1800W**



Lumens Output ranges
from **34000LM** to
288000LM



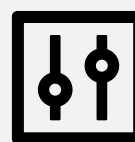
Beam angles range from
10° to **90°** and **S56** to
S58



CCT ranges from
2700K to **5000K**



CRI includes
CRI80 and **CRI90**



Controls include
0/1-10V, **DALI** and
ON/OFF

SOLUNA STREET

Precision & Aesthetics

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MORE DETAILS



L846*W361MM

L1096*W361MM

L697*W361MM

 Wattage ranges from 30W to 120W	 Lumens Output ranges from 7200LM to 21600LM	 Beam angle of 70*140°
 CCT ranges from 2700K to 6000K	 CRI of CRI70	 Control of SOLAR

Lighting That Works.

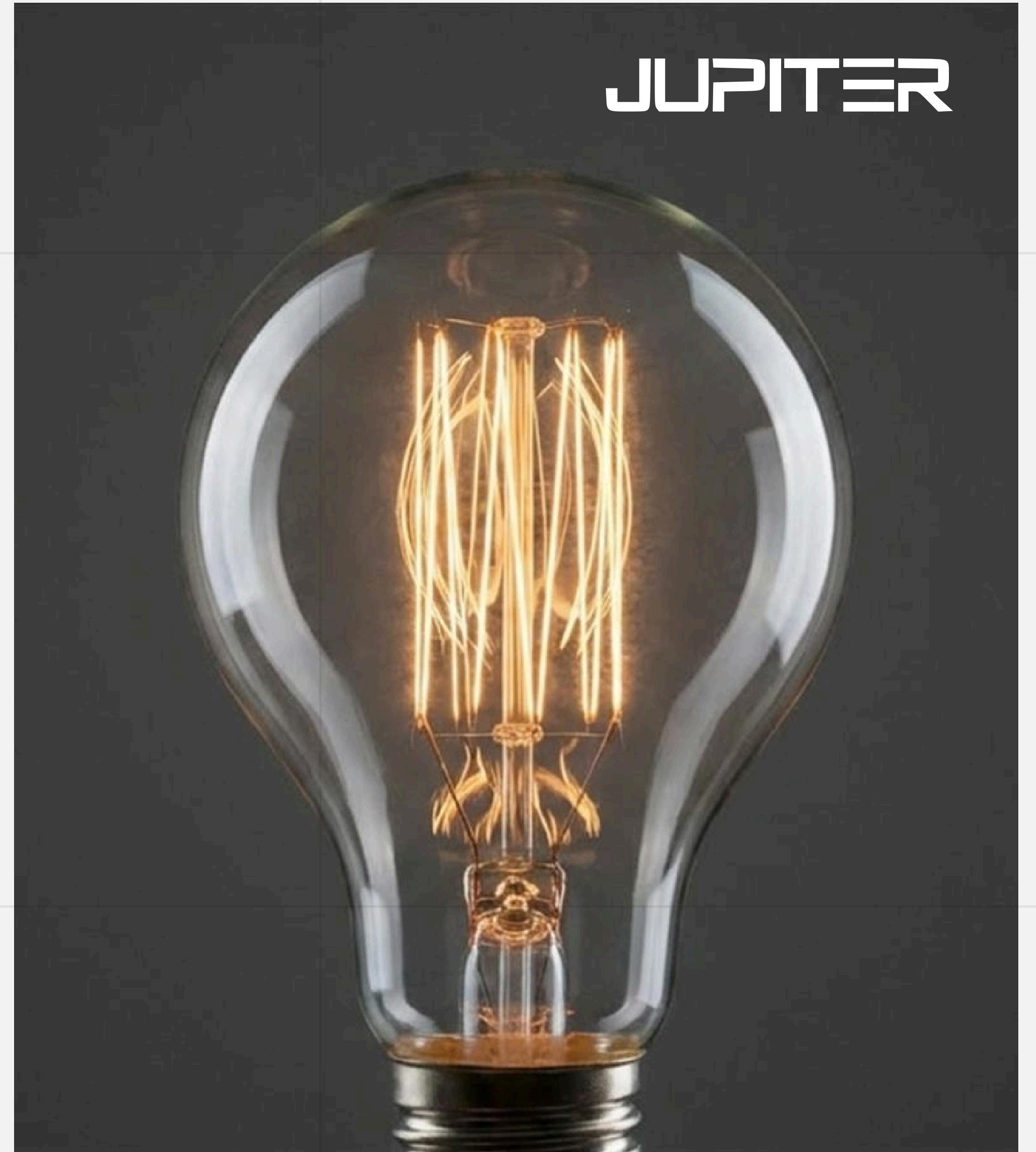
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AMPHI RECTANGLE I SPORT LIGHT - UV TEST REPORT

TEST REPORT

Report Number.....: JLSP-20230922-02

Applicant's name.....: Rewire International LLC

Applicant's Address.....: PO Box 1247 Dubai, UAE

Sample description.....: Aglitty II

Model.....: 30° lens / 60° lens / 90° lens / Polarized 50° lens

Total number of pages.....: 6 pages

Name of Testing Laboratory preparing the Report.....: Testing Center, 5th Floor, Building 1,792, Xie Cao Road, Xiegang Town

Standard.....: IEC60068-2-5

Test procedure.....: Partial test

Non-standard test method.....: N/A

Test object description.....: AMPHI RECTANGLE I

Trade Mark.....: JUPITER

Manufacture.....: Rewire International LLC

Factory.....: Rewire International LLC

Rating.....: 220-240Vac ,50/60Hz

Number of test objects.....: 4PCS

Test date(s).....: 2023-08-30

Test result.....: PASS

Data of issue.....: 2023-09-22

Tested by.....: He Guanghong

Reviewed by.....: Luo shichun

Approved by.....: Huang Houbin

Abbreviation:
P=passed;F=failed;N/A=not applicable;

General disclaimer:
The test results presented in this report relate only to the object tested.
The test report is invalid if not marked with “exclusive stamp for the test report” .
The report is invalid if without the signatures of the person responsible approving.
This report shall not be reproduced, except in full, without the written approval of the center.
The test report is invalid if there is any evidence of erasure and/or falsification.
If there is any dissidence for the test report ,please file objection to the test center within 15days from the date of receiving the test report.

Page 3 of 6

Report No: JLSP-20230922-02

Test Report

1、Ambient Temperature

Temperature : 25℃,

Humidity: 75%RH

2、Test Conditions

According to the client's requirements,the test was performed

The test condition was shown in Table1.

Table 1 Test Conditions

UV lamp type	Emittance	Exposure time	Condensation time	Test time
UVA-340	@0.89W/m2/nm	8H	4H	500H

3、Test Result

The test result was shown in Table 2.the value of chromatism in Table 3.

Table 2 Test result

Sample No	Test Time	Visual Inspection
Stamping	500H	No significant discoloration of the sample
Die casting	500H	No significant discoloration of the sample

Table 3 The value of chromatism

Sample No	Test Result	L	a'	B*	△E
30° lens	Before the test	46.85	3.47	2.83	0.34
	After the test	47.06	3.46	2.53	
60° lens	Before the test	46.41	3.44	2.76	0.35
	After the test	46.66	3.43	2.45	
90° lens	Before the test	46.17	3.48	2.79	0.33
	After the test	46.49	3.47	2.48	

Page 2 of 6

Report No: JLSP-20230922-02

Summary of test result:
Based on the test results given in this report,the submitted sample does comply with the relevant requirements mentioned in this report.

The test results shown in this report relate only to the tests performed according to the test program .

Test program:
N/A

General remark:
N/A

Copy of marking plate:
The artwork below may be only a draft.
N/A

Model/Type reference:
SPA1200, SPA1400, SPA2600, SPA3800, SPA412X, SPA415X



Certificates

THE REPORT FOR 3.51M ALUMINUM LAMP POLE - SUBJECTED TO WIND 24.4 MPS

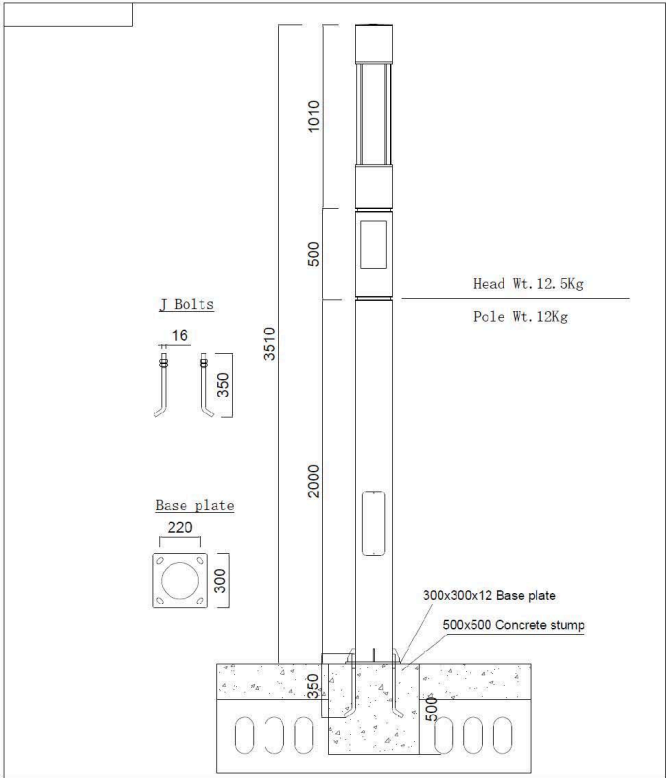
ReWire

DESIGNED APPURTENANCE LOADING

TYPE	WIND VELOCITY	HEIGHT	MATERIAL
Aluminum Lamp Pole	Nine-grade (24.4 m/s)	3.51 m	Al 6063-T5

STREET LAMP POLE DESIGN NOTES

- The lamp pole is designed to withstand a wind velocity of 24.4 m/s, which corresponds to a Nine-grade wind (ranging from 20.8–24.4m/s) as defined by the Beaufort Scale.
- The design of the lamp pole adheres to the standards set forth in BS EN1991-1-4, GB50429-2007, GB50009-2012, and EN1999-1-1:2007 Eurocode9: Design of Aluminum Structures.
- The lamp pole is engineered for exposure category C5-I in compliance with ISO 12944 standards.
- The structural importance coefficient for the lamp pole is established at 1.10.
- It falls under Topographic Category B with a crest height of 3.51 meters.
- Installation will be conducted in accordance with TIA/EIA-222 and AISC specifications.



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Designed by:		Checked by:	
File Number:		Revision Number:	

JUPITER

Project: 3.51m Aluminum Lamp Pole		
Client:	Date: September 29, 2025	Page: 1 / 16
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File Number:	Revision Number:	

TOWER INPUT DATA

The lamp pole is designed as a monopole.
This lamp pole has been engineered in accordance with the BS EN1991-1-4, GB50429-2007, and EN1999-1-1:2007 Eurocode9 standards. The following design criteria have been applied:
Basic wind speed of 24.4 m/s, equivalent to Beaufort scale grade Nine.
Structure Class II.
Exposure Category C5-I; Topographic Category B; Crest Height: 3.51m.
Installation adheres to TIA/EIA-222 and AISC specifications.
A non-linear (P-delta) analysis was conducted for this design.
Pressures were calculated at each section, with a stress ratio of 1.0 utilized in the pole design.
Local bending stresses resulting from climbing loads, feed line supports, and appurtenance mounts have not been considered in this analysis.
The calculations were performed using Midas Gen 2023 software, the basic models were established as following:

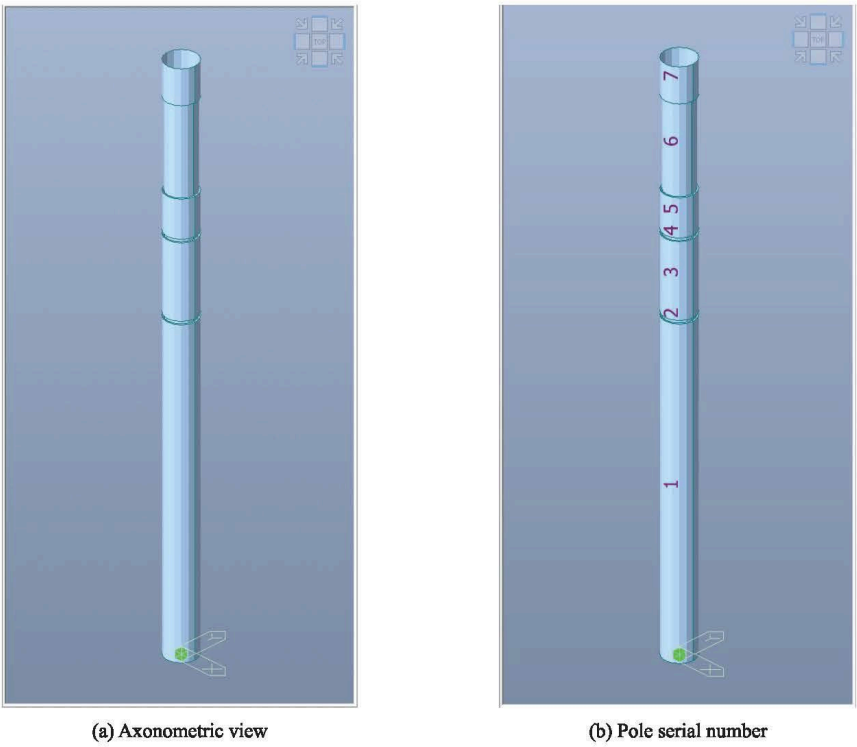


Fig. 1 Basic Model of the Lamp Post

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MAST POLE SECTION GEOMETRY

Pole Number	Elevation m	Section Length mm	Number of Sides	Top Diameter mm	Bottom Diameter mm	Wall Thickness mm	Pole Grade
L1	0.0-3.51	3510	Circular	200	200	3.0	6063-T5

MATERIAL STRENGTH

Material	Grade	Wall Thickness	f MPa	f _t MPa	f _{0.2Hk} MPa	f _{0.1Hk} MPa	E _s MPa
Aluminum	6063-T5	All	90	55	60	35	7.00×10 ⁴

SECTION GEOMETRY PROPERTIES

Section No.	Tip Dia w /mm	Thickness t /mm	w /t	Width-thickness ratio grade	Area mm ²	I _{xx} mm ⁴	I _{yy} mm ⁴	I _{zz} mm ⁴
L1-i	200	3.0	66.6	S2	1857	1.80+e7	9.01+e6	9.01+e6
L1-j	200	3.0	66.6	S2	1857	1.80+e7	9.01+e6	9.01+e6

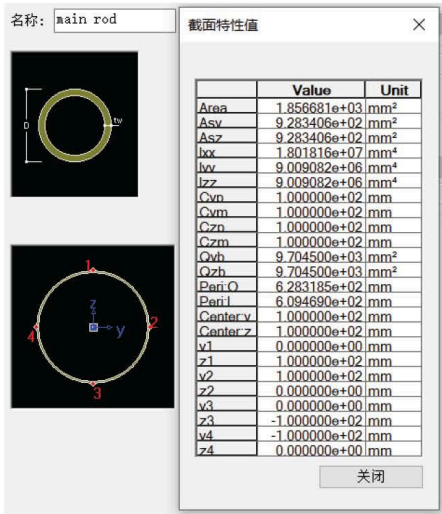


Fig. 2 Section characteristic value of the main rod

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APPURTENANCE WEIGHT AND WINDWARD AREA

Appurtenance Type	Lamp 1	Lamp 2
Quality /kg	12.5	-
Dead Weight /kN	0.125	-
Quantity	1	-
Wind Load Direction	All	All
Windward Surface Size /mm	-	-
Windward Area /m ²	-	-
Lamp Rod Weight	Software Automatically Calculated and Classified as Dead Load	

BASIC PARAMETERS OF WIND LOAD

The standard value of wind load is determined using the following formula:
 $w_k = \beta_z \mu_s \mu_z w_0$
The wind load shape coefficient μ_s for the square tube section is specified as 1.3, and the wind load shape coefficient μ_z for the independent rods of the round tube section is calculated and presented in the following table. For structures and buildings with relatively low heights, the wind vibration coefficient β_z in the downwind direction, calculated considering the first-order vibration mode, tends to be relatively small. This value can be referenced from the gust coefficient table for wind loads on enclosure structures. Additionally, basic parameters can be derived based on wind load assessments conducted under a ground roughness classification of Class B.

Elevation above ground H	5m	10m	15m	20m	30m	40m
Roughness grade of the ground	B					
Wind pressure height variation coefficient μ_s	1.00	1.00	1.13	1.23	1.39	1.52
Wind vibration coefficient β_z	1.70	1.70	1.66	1.63	1.59	1.57
Type coefficient of wind load μ_z	When $\mu_z w_0 d^2 \leq 0.002$, $\mu_z = +1.2$ When $\mu_z w_0 d^2 \geq 0.015$, $\mu_z = +0.6$, the median value calculated by the insertion method					
Beaufort wind grade	Nine					
Wind speed v	24.4 m/s					
Wind pressure w_0	$w_0 = v^2 / 1600 = 0.37 \text{ kN/m}^2$					

LINEAR LOAD GENERATED BY WIND

The variation coefficients of wind pressure height and wind vibration for sections at different elevations are determined through linear interpolation. The wind load values for the lamp pole and its associated mass are calculated based on a linear load input method. The standard values of wind loads for each section are

THE REPORT FOR 3.51M ALUMINUM LAMP POLE - SUBJECTED TO WIND 24.4 MPS

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$$N_{it} \leq N_t^a$$

The axial forces acting on each anchor bolt are determined using the following equation:

$$N_{it} = \frac{N}{n} + \frac{M_x Y_i}{\sum_{j=1}^n Y_j^2} + \frac{M_y X_i}{\sum_{j=1}^n X_j^2}$$

Anchor Bolt Number	1	2	3	4
Axial Force (kN)	0.079	0.079	1.695	1.695
The Anchor Bolt With The Greatest Axial Force				3
Maximum Axial Force		1.695 (kN)		

Shear Force Acting On The Anchor Bolt

The design value of shear strength must comply with the stipulations outlined in the following formula:

$$N_{vt} \leq \min \left(\frac{a}{v}, N_c^a \right)$$

The shear forces exerted on each anchor bolt are determined using the subsequent formula:

$$N_{vt} = \sqrt{\left(\frac{V_x}{n} + \frac{T y_i}{\sum_{i=1}^n r_i^2} \right)^2 + \left(\frac{V_y}{n} + \frac{T x_i}{\sum_{i=1}^n r_i^2} \right)^2}$$

Anchor Bolt Number	Shear (kN)	Shear X Component (kN)	Shear Y Component (kN)
1	0.101	-0.101	0.000
2	0.101	-0.101	0.000
3	0.101	-0.101	0.000
4	0.101	-0.101	0.000

VERIFICATION OF TENSILE-SHEAR BEARING CAPACITY OF ANCHOR BOLTS

The bearing capacity of the anchor bolt under the combined effects of tension and shear can be determined using the following formula:

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$$\sqrt{\left(\frac{N_{vt}}{N_v^a} \right)^2 + \left(\frac{N_{it}}{N_t^a} \right)^2} \leq 1$$

Anchor Bolt Number	Tension-Shear Force Coefficient	Result
1	0.017<1.0	✓
2	0.017<1.0	✓
3	0.079<1.0	✓
4	0.079<1.0	✓

FOUNDATION GEOMETRIC

Foundation shape: Rectangle, length L=0.500m, width B=0.500m, height H=0.500m; Foundation burial depth: 0.500m;
Foundation specific gravity: 25,000 kN/m³ Soil cover density: 18.000kN/m³
Allowable value of Anti-overturning Coefficient: 1.30; Foundation friction coefficient μ: 0.30; Allowable value of Anti-slip Coefficient: 1.20;

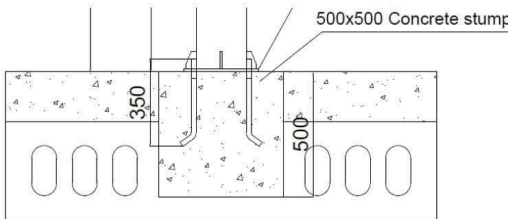


Fig. 9 Foundation geometric information

TOP REACTION FORCE OF THE FOUNDATION

The foundation verification adopts the standard combination. The top load values of the foundation are as follows:

编号	x (m)	y (m)	z (m)	F (kN)	H _x (kN)	H _y (kN)	M _x (kN.m)	M _y (kN.m)
1	0.000	0.000	0.500	0.245	-0.270	0.000	0.000	-0.474

LOAD CALCULATION

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Self-weight of the foundation= 0.125×25.000=3.125kN; Take the centroid of the foundation base as the load statistics point. The load calculation results are as follows:

Bending moment:									
F (kN)	H _x (kN)	H _y (kN)	M _x (kN.m)	M _y (kN.m)	Δx (m)	Δy (m)	Δz (m)	At the centroid point M _x (kN.m)	At the centroid point M _y (kN.m)
0.245	-0.270	0.000	0.000	-0.474	0.000	0.000	0.500	0.000	-0.609
Total								0.000	-0.609

Vertical resultant force: ∑V_z= 3.370 kN;
Horizontal force resultant force: 0.270kN; Direction of resultant force: 180.000° ;
Eccentricity of X Direction:
$$e_{0x} = \sum M_y / \sum V_z = -0.609 / 3.370 = -0.181\text{m}$$

Eccentricity of Y Direction:
$$e_{0y} = - \sum M_x / \sum V_z = 0.000 / 3.370 = 0.000\text{m}$$

Total Eccentricity:
$$= \sqrt{e_x^2 + e_y^2} = ((-0.181)^2 + (0.000)^2)^{0.5} = 0.181\text{m}$$

ANTI-OVERTURNING VERIFICATION

According to Article 5.4.1 of the "Code for Design of Foundation and Substructure of Highway Bridges and Culverts" (JTG 3363-2019):

$$k_0 = \frac{s}{e_0} = \frac{\sum P_i}{\sum_{i=1}^n h_i} \frac{s}{h_i} \geq k_p]$$

The distance from the center of gravity of the section to the overturning axis for verification on the extension line from the center of gravity of the section to the point of application of the resultant force:
s=0.250m

Anti-overturning stability verification:
$$k_0 = s / e = 0.250 / 0.181 = 1.38 \geq [k_0] = 1.30, \text{ PASS!}$$

ANTI-SLIP VERIFICATION

According to Article 5.4.2 of the "Code for Design of Foundation and Substructure of Highway Bridges and Culverts" (JTG 3363-2019):

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$$k_c = \frac{\mu \sum P_i + \sum H_{tp}}{\sum H_{ta}} \geq k_c]$$

Frictional force:
$$\mu \sum P_i = \mu \sum V_z = 0.3 * 3.370 = 1.011 \text{ kN};$$

The total sum of anti-slip horizontal forces:
$$\sum H_{tp} = 0.000 \text{ kN};$$

The sum of the sliding horizontal forces:
$$\sum H_{ta} = 0.270 \text{ kN};$$

Anti-slip stability verification:
$$(\mu \sum P_i + \sum H_{tp}) / \sum H_{ta} = (1.011 + 0.000) / 0.270 = 3.74 \geq [k_c] = 1.20, \text{ PASS!}$$

CONCLUSIONS AND SUGGESTIONS

Conclusion: The structural integrity of the main pole and foundation and flange with anchor bolts of the 3.51m aluminum lamp pole has been verified and confirmed to meet the wind resistance requirements at a speed of 24.4m/s.
Suggestion: The cross-section at the bottom inspection opening represents a critical weak section. During design and fabrication, appropriate structural measures must be implemented to ensure that the strength of the inspection opening cross-section matches or exceeds that of the main member pole.

JUPITER RECESSED CB CERTIFICATION

ReWire

	Ref. Certif. No. JDL-00099
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME	
Additional information Model details refer to page 1 of annex.	
This CB Test Certificate is issued by the National Certification Body	
DEKRA Certification B.V. Meander 1051 6825 MJ Arnhem Netherlands	
Date: 2024-06-23	Signature: K. Lin
Page 2 of 2	

● ● ●

Certificates

ReWire

JUPITER RECESSED CE LVD CERTIFICATION



Annex

Document no. : 20230817-JDL-00099

Model/Type reference:

DPA1006,DPA2006,DPA2009,DPA2012,DPA2015,DPA3012,DPA3015,DPA4012,DPA4015,DP
 A4020,DPA4024,DPA5028,DPA5032,DPA6036,DPA6041,DPB1006,DPB2006,DPB2009,DPB20
 12,DPB2015,DPB3012,DPB3015,DPB4012,DPB4015,DPB4020,DPB4024,DPB5028,DPB5032,
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 JDL7930,JDL7940,JDL7950,JDL7960



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