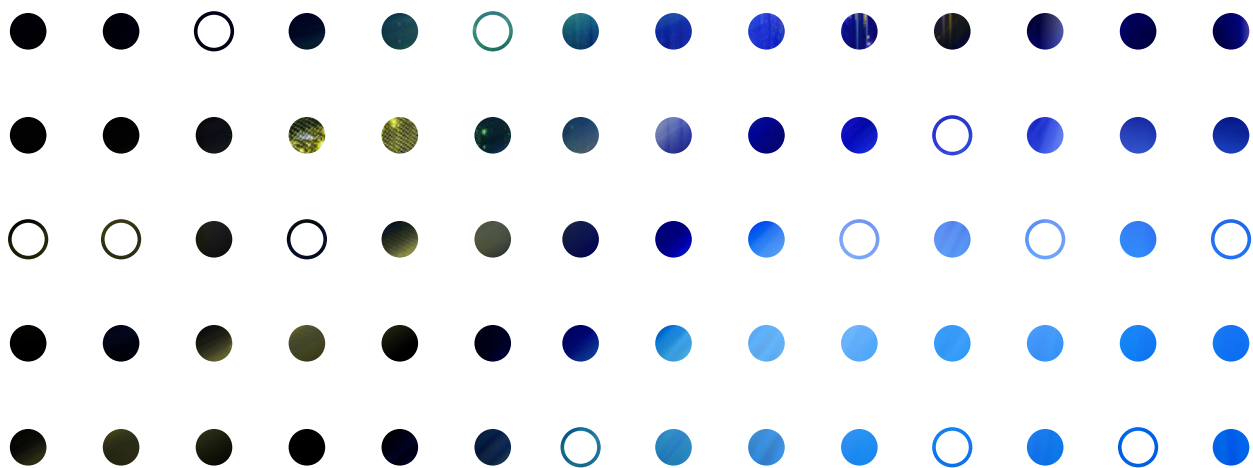
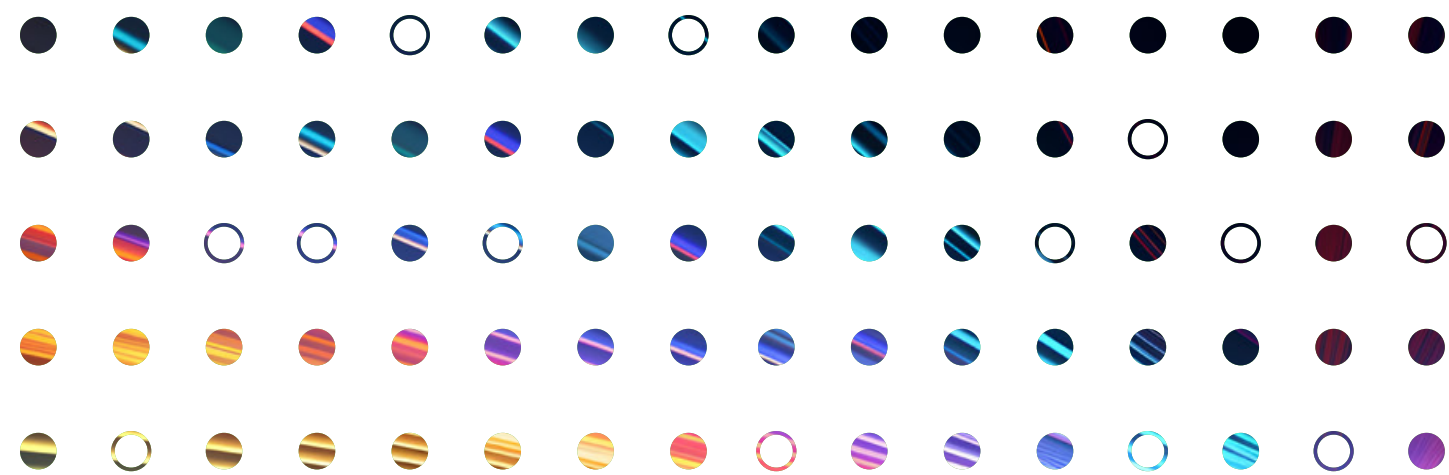




where light leads

nu **lumen**tek®

PROFILE
DATA CENTER EDITION



where light leads

We exist to illuminate spaces, enhance well-being, and inspire excellence by seamlessly blending sustainability, functionality and creativity.

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WHO WE ARE

Established in 2012, nu**lumentek** is now, an internationally renowned specialist lighting solutions provider. Our core strength lies in delivering professional support to our valued clients and partners. Our proficiency spans a range of areas, encompassing standard commercial lighting, premium architectural lighting, facade lighting, urban and landscape lighting, as well as specialised retrofitting.

Operating from offices in Ireland, the UK, and across the Middle East, our team is composed of dedicated professionals, including engineers, project managers, architects, designers, and creatives. Our collective commitment is directed towards reducing the energy footprint associated with lighting. We take pride in our devotion to providing sustainable solutions that seamlessly integrate with their surroundings, offering purposeful and well-suited lighting solutions for every project.

We travel the world to source from renowned, global and niche lighting brands, curating a product assortment that features iconic designs as well as the latest in contemporary lighting to bring one-of-a-kind lighting experience to our projects.

MISSION

To deliver sustainable lighting solutions shaped out of creative thinking, bespoke approach, cutting-edge technology, intelligent engineering and future focused innovation.

VISION

To lead the industry by transforming spaces through sustainable lighting solutions that enhance human experiences through innovation and aesthetic excellence.

OUR HISTORY TIMELINE.

2012

Established in Cork
Ireland

2013

Office opened in
Masdar City,
Abu Dhabi, UAE
Office opened in
Jeddah - KSA

2019

Office opened in
Riyadh - KSA
Moved to new larger
premises in Cork -
Ireland

2020

Office opened in
Dubai, UAE
QA Certification
ISO 45001:2018
ISO 9001:2015
ISO 14001:2015

2021

Office opened in
United Kingdom

2023

Office opened in
Egypt

nulumentek VALUES

In a large and highly fragmented market,
nulumentek values are key USPs

WE ARE UNIQUELY INNOVATIVE & HIGHLY PRAGMATIC

Creative, flexible and agile drawing on M&E expertise, lighting design, product knowledge, sector & application expertise, product manufacturing & supply chain flexibility

WE MAKE IT EASY FOR DESIGNERS AND END-USERS

We provide high quality lighting designs, engineering-based in deep technical expertise, industry & product knowledge in highly collaborative and value-adding partnerships

WE MAKE IT EASY FOR CONTRACTORS

We reduce time and complexity from proposal through to installation backed up with robust, reliable supply chain



LIGHTING SOLUTIONS FOR DATA CENTER

We develop lighting solutions for data centers based on providing the correct amount of light for each area.

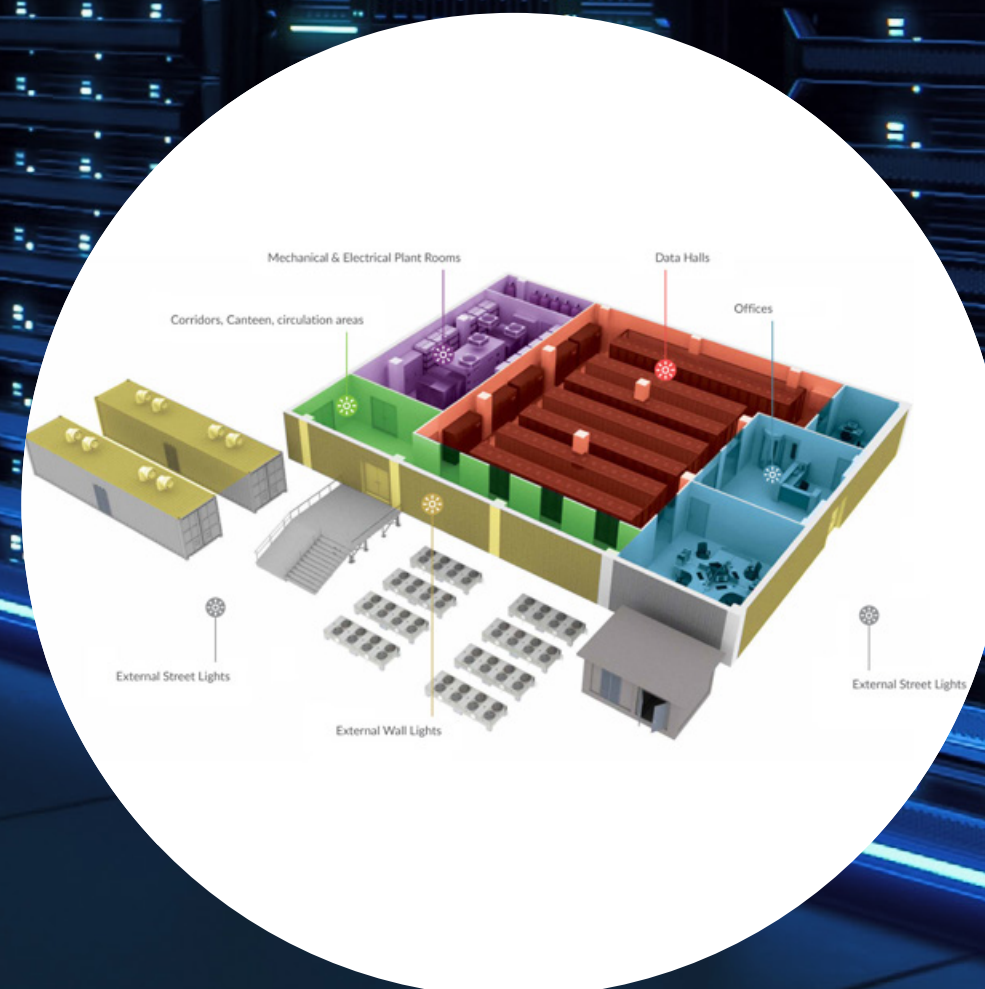
These lighting solutions include high efficacy components, specific optics, good color rendering and very long life.

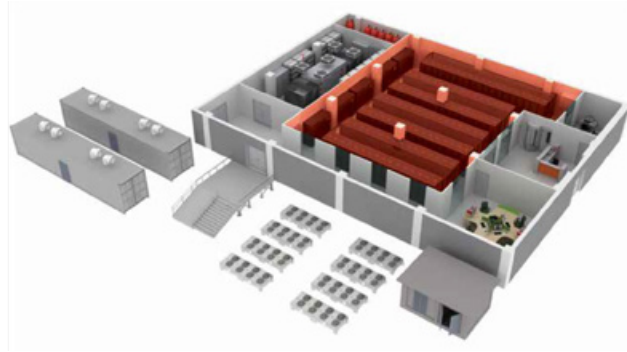
The products are designed based on extended life span, up to and over 100K hours, this ensures the lowest possible light depreciation over time and an extended product life.

We ensure our solutions provide visual comfort to ensure occupants work in the most effective environment without glare or flicker.

Lighting controls and sensors are designed to ensure lighting is only used when required and dims or turns off when not required, daylight harvesting is also available where natural light can be utilised.

We provide multiple options on lighting controls from simple on/off control with occupancy sensors to fully centralised Dali control systems which can integrate with building management systems, we design supply and commission these systems for each project through close engagement with the specialist contractors and end users.





LIGHTING SOLUTIONS - DATA HALLS

Fit for purpose lighting solutions

Designed to ensure even distribution of light and visual comfort for the lowest possible energy combined with absence detection for additional energy savings.



Standard Suspended or Surface Mounting Option

Tri-Proof is a cost-effective range of tough and efficient linear vapour-proof luminaires, for surface or suspended application.

Key benefits and performance

- DALI and Emergency (3 hour) Options
- IP66, Maximum IK10 impact resistance
- Colour rendering (CRI): 80
- Colour temperature (CCT): 3000K, 4000K or 5000K
- Electrical class: Class I
- Lumen maintenance: L80 > 100,000 Hours
- Luminaire efficacy (lm/W): 180
- Operating temperature (°C): -20°C to +50°C
- Power factor: >0.95
- Rated lifetime: 100,000 hours



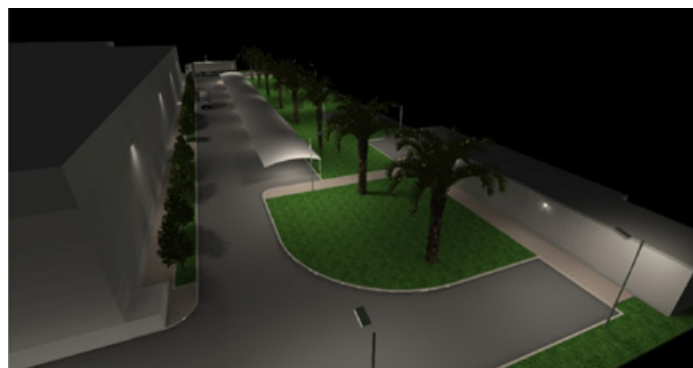
Trunking System for purpose

HXLINER III is a versatile surface mounted or suspended trunking solution, supplied pre-wired, units are easily slotted together for long continuous runs, and LED modules clipping easily into place. Integral plug and play electrical connections allow for fast, straightforward installation.

Key benefits and performance

- Boasts class leading performance and flexibility.
- Lighting trunking system for quick easy installation.
- Multiple optics available to suit all applications.
- Integrated lighting sensors and integrated emergency options if required.
- Colour rendering (CRI): 80
- Colour temperature (CCT): 3000K, 4000K, 5000K, 6000K.
- Electrical class: Class I
- IK rating: IK04
- IP rating: IP54
- Lumen maintenance: L80 > 100,000 Hours
- Luminaire efficacy (lm/W): 192
- Operating temperature (°C): -20°C to +45°C
- Power factor: >0.95
- Rated lifetime: 100,000 Hours





LIGHTING SOLUTIONS - CIRCULATION AREAS

Fit for purpose lighting solutions

Designed to ensure even distribution of light and visual comfort for the lowest possible energy combined with absence detection for additional energy savings.



LED Downlights

A range of attractive, unobtrusive, downlights. A class leading colour consistency of 3 SDCM means all product will appear uniform when washing wall and columns. Suitable for use in lobbies, corridors and other circulation and amenity space.

Key benefits and performance

- Compact form factor with excellent thermal management for extended product life.
- Low glare solutions with clean lines.
- Multiple control options including integrated emergency options
- Colour rendering (CRI): 80
- Colour temperature (CCT): 3000K, 4000K, 5000K
- Electrical class: Class II
- IP rating: IP44 / IP54 / IP65
- Lumen maintenance: L80 >100,000 Hours
- Luminaire efficacy (lm/W): 110 - 135
- Operating temperature (°C): -20°C to +45°C
- Power factor: >0.96
- Rated lifetime: 100,000 Hrs



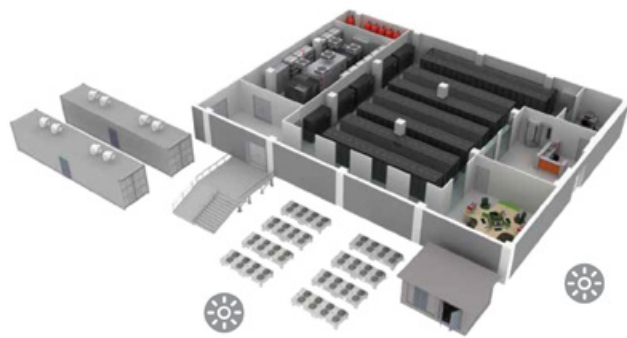
Chilo LED Panels

Available in 600x600mm or 600x1200mm forms, with output ranging between 2500 to 5500 lumens, At a depth of only 9.5mm, our panel is designed for rapid lift & tilt installation within 15/25mm exposed T ceiling grids.

Key benefits and performance

- Recessed, suspended and surface mounted options available.
- Flexible driver settings to select from 20W to 40W on fixed output options.
- Low glare of UGR<19
- Colour rendering (CRI): 80
- Colour temperature (CCT): 3000K, 4000K, 5000K
- Electrical class: Class III
- IK rating: IK02
- IP rating: IP44/IP54
- Lumen maintenance: L80 > 100,000 Hours
- Luminaire efficacy (lm/W): 135
- Operating temperature (°C): -20°C to +40°C
- Power factor: >0.90
- Rated lifetime: 100,000 Hours





LIGHTING SOLUTIONS - EXTERNAL AREAS

LED Street lighting, Projectors & Bulkheads

Providing effective lighting inside the Data Centers is critical but it is equally important to provide good external lighting. The outdoor scope plays a vital role for safety, security, visibility and accessibility.

- Smooth form factor design for improved aesthetics.
- Wireless solutions for night time dimming available with integrated sensors and smart city compatibility.
- High efficacy, 100K hour life span. corrosion resistant with tool less easy access for maintenance.

Cephal Post Top Light

Urban Illumination Cephal Suitable for application in outdoor areas, where traffic is primarily pedestrian, the Cephal optical design ensures high levels of visibility and comfort in parks, shopping centres and general pedestrian thoroughfares.

Key benefits and performance

- Suitable for post top mounting on columns from 3m to 8m.
- A clean, architectural appearance allows Cephal to blend in without jarring with its surroundings.
- Colour rendering (CRI): >80
- Colour temperature (CCT): 4000K, 5000K, 6000K
- Electrical class: Class I
- IK rating: IK08
- IP rating: IP66
- Lumen maintenance: L80> 100,000 Hours
- Luminaire efficacy (lm/W): 120
- Operating temperature (°C): -30°C to +50°C
- Operating voltage: 100-240 VAC
- Power factor: >0.90
- Rated lifetime: 100,000 Hrs
- SDCM: 4



Sphyrna Flood Lights

Powerfully Accurate A competitive floodlight range suitable for outdoor car parks recreational areas, building facade and perimeter lighting. The Sphyrna range combines good uniformity and visibility with a high efficiency.

Key benefits and performance

- Suitable for both post-top/column mounting as wall mounting.
- Colour rendering (CRI): >80
- Colour temperature (CCT): 4000K, 5000K, 6000K
- Electrical class: Class I
- IK rating: IK08
- IP rating: IP66
- Lumen maintenance: L80 > 100,000 Hours
- Luminaire efficacy (lm/W): 160
- Operating temperature (°C): -30°C to +50°C
- Operating voltage: 100-240 VAC
- Power factor: >0.96
- Rated lifetime: 100,000 Hrs
- SDCM: 4



Triakis Street Lights

An innovative streetlight range suitable for minor/major roads, open spaces, car parking and logistic areas.

Key benefits and performance

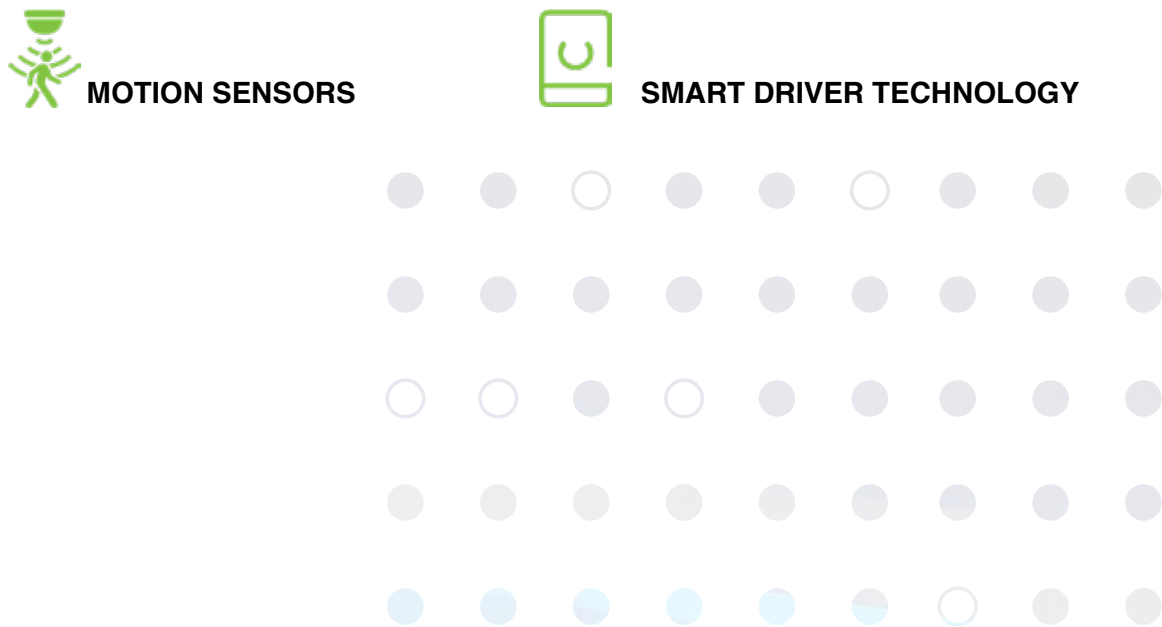
- Smooth upper surface avoids accumulation of solid materials
- Suitable for the illumination of all road classes
- Photocell, 1-10V, DALI and timer options
- 10kV Surge Protection
- Colour rendering (CRI): >80
- Colour temperature (CCT): 3000K, 4000K, 5000K
- Electrical class: Class II
- IK rating: IK08
- IP rating: IP66
- Lumen maintenance: L90 > 100,000 Hours
- Luminaire efficacy (lm/W): 165
- Operating temperature (°C): -30°C to +50°C
- Operating voltage: 100-277VAC
- Power factor: >0.95
- Rated lifetime: 100,000 Hrs
- SDCM: 4



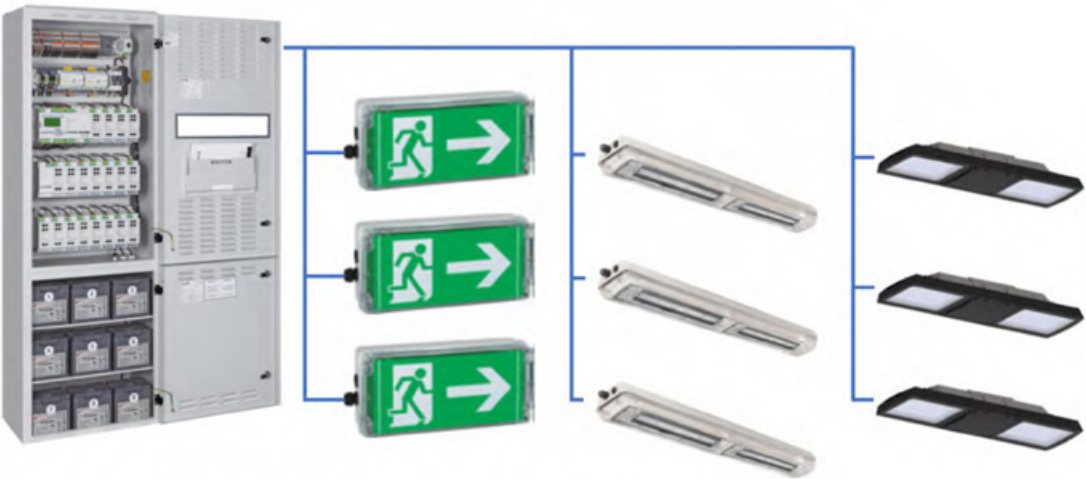
LIGHTING CONTROLS, EMERGENCY LIGHTING AND CENTRAL BATTERY

We provide design, supply and commissioning of all lighting controls systems including emergency lighting and Central battery solutions.

Additional energy saving by using smart lighting control devices
Wired and Wireless options

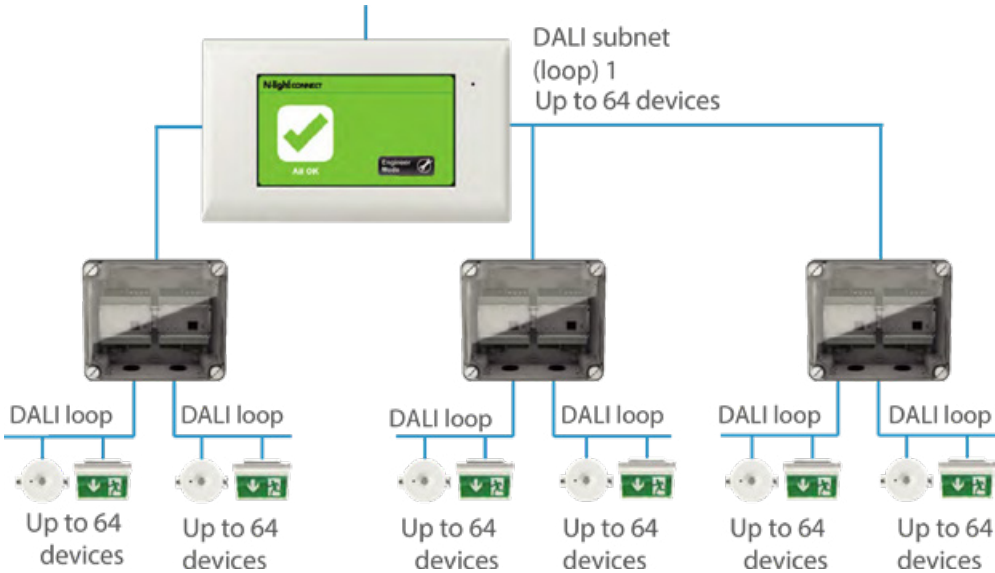


Central Battery Systems

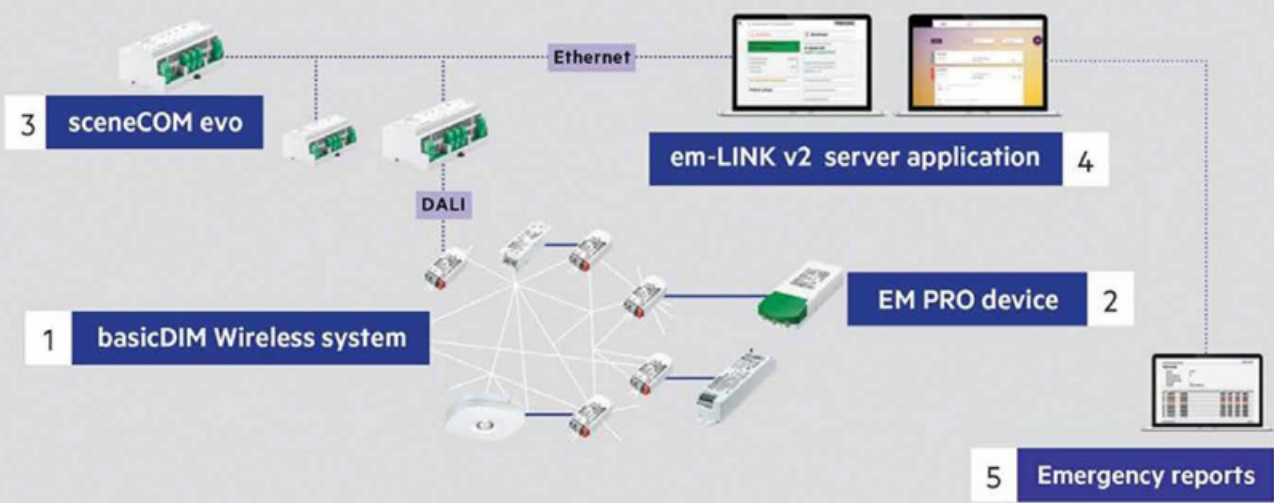


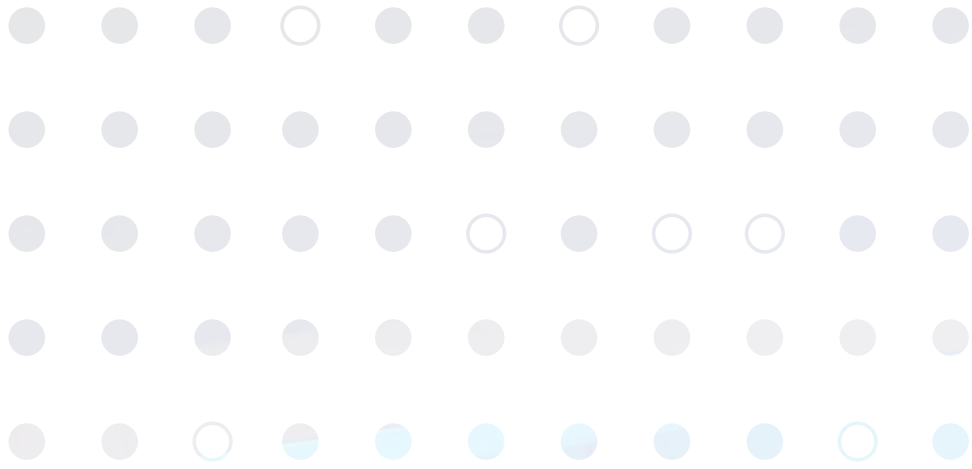
CBS
Indoor/Outdoor
System Luminaires

Monitored Emergency Lighting Systems



Centralized DALI Lighting Control Systems





At our core, we embrace innovation, craftsmanship, quality, and sustainability. Our commitment extends beyond the present to nurture emerging design talent, drive scientific exploration, and cultivate pioneering collaborations - all to protect and evolve iconic design legacies for the future.

WE MAKE LIGHTING SIMPLE.

-  **ARCHITECTURAL LIGHTING SOLUTIONS**
We provide architectural lighting solutions based on collaboration with specialist lighting designers, architects and end users.
-  **FLEXIBILITY**
We focus on bringing the most suitable products for each application and ensure we provide the flexibility to modify products as required including complete bespoke product development.
-  **INTEGRATED SOLUTIONS**
We work on unique form factors and integrated solutions for built in applications.
-  **LIGHTING APPLICATIONS**
We support solutions for every lighting application from class A high end lighting to specialist retail and urban & rural landscape solutions.
-  **SMART LIGHTING CONTROLS**
We provide wired and wireless lighting control systems for all applications including built-in smart sensors

COMPANY ACCREDITATIONS.

We are ISO accredited and operate a strict quality control system across all our processes.

Our policy's are structured in a manner that aligns with our clients' objectives and allows us to develop our proposals which are commercially viable based on delivering fit for purpose solutions that are best in class for energy consumption and deliver the most economical whole life cost.

Each project follows a strategy which focuses on providing the most effective solution for our clients where sustainability delivers excellent IRRs and improves the

company's bottom line through delivering solutions which meets our criteria for avoidable costs.

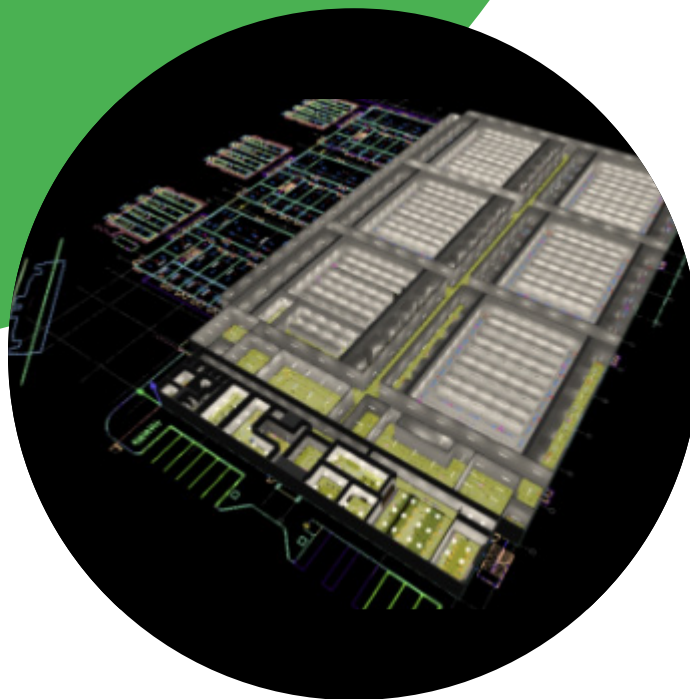
All projects are developed in line with our sustainability goals which applies across our whole supply chain.

We continue to adapt our systems each year to ensure we continuously improve; we always aim to stay ahead of the curve with regards to the integration of new technologies and processes.



DIALUX LIGHTING CALCULATIONS

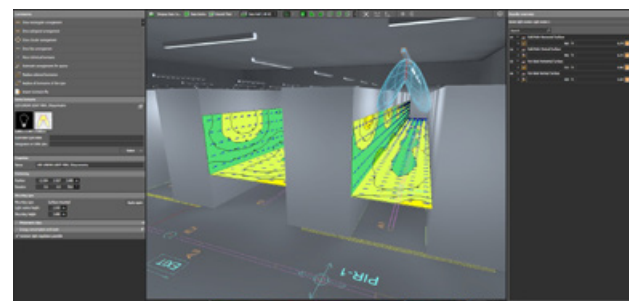
Our lighting designers are highly proficient in the development of DIALux lighting calculations and model each project in detail, they take on board actual site conditions including reflectance factors to ensure the lowest opex cost on the lighting systems. We provide UGR calculations and ensure uniformity and visual comfort is maximised. We also develop lighting layouts and schedules with easy to follow legends and clear installation instructions.



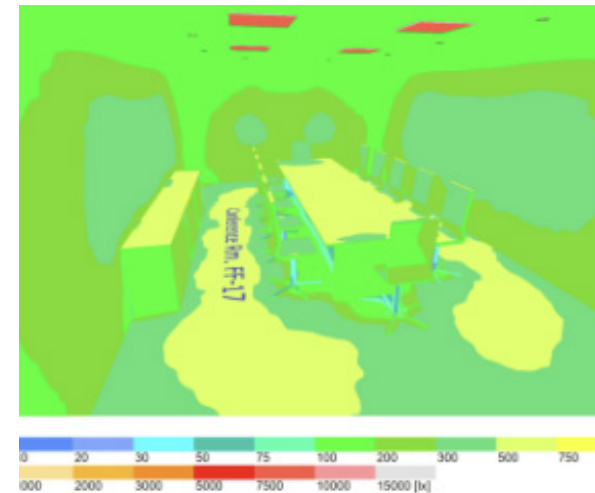
Fit For Purpose Technically And Geographically

We have designed and delivered lighting solutions for data centers in Ireland, Sweden, Switzerland, Bahrain, UAE and Saudi Arabia.

Each geographic location has different requirements from very low temperatures and high snowfall in Sweden to Sand storms and very high temperatures in the Middle east. We consider all conditions for our product selection.



LIGHTING ENGINEERING SERVICES



False color rendering for illuminance of a conference room



Gray scale rendering for illuminance of a conference room.

Energy Analysis & Site Audit For Existing Installation

We provide specific detailed analysis for each project, this ensures we deliver the most suitable lighting system based on light quality, uniformity, Colour rendering, Glare, IK/IP protection and smart controls whilst achieving the best possible energy savings. We ensure the product is fit for purpose and the form factors are in line with the architectural design of the building.

Lighting Concept & Design For New Developments

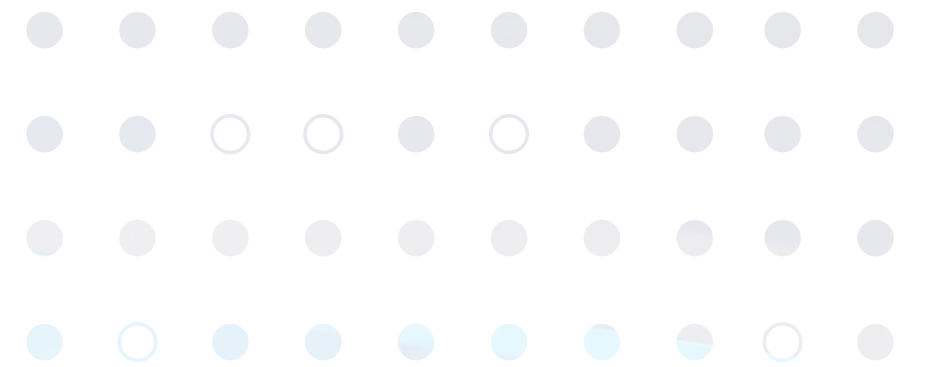
For new build projects we develop solutions based on the clients requirements where we engage directly with end users or their architects, MEP Engineers, interior designers or lighting designers, we focus on providing the best lighting solutions using the lowest possible energy.

We also provide emergency lighting design services to ensure the life safety element of each project is compliant with local and international standards where applicable. We specialize in the development of bespoke solutions particularly where form factor is critical and also this includes bespoke solar powered systems.

Supply, Commissioning & Testing

We support our clients with on site commissioning where required, this includes emergency lighting and lighting controls and also measurement & verification for energy retrofit projects.





HIGHLY-EFFICIENT LIGHTING SOLUTIONS THAT COMPLY WITH INTERNATIONAL STANDARDS.

LEVEL 1

DATA CENTER UNOCCUPIED

- Lighting should be sufficient to allow effective use of video surveillance equipment.

LEVEL 2

INITIAL ENTRY INTO THE DATA CENTER

- Motion sensors should be used to activate lights in the immediate area of entry and be programmed to illuminate aisles and passageways.
- Sufficient lighting should be provided to allow safe passage through the space and to permit identification via security cameras.

LEVEL 3

OCCUPIED SPACE

- When the data center is occupied for purposes of maintenance or interaction with equipment, lighting shall be 500 lux in the horizontal plane and 200 lux in the vertical plane , measured 1 m (3 ft.) above the finished floor in the middle of all aisles between cabinets.
- In data centers larger than 230 m² (2500 ft²) zone lighting is recommended that provides Level 3 in the immediate area of work and Level 2 in all other zones.

Lighting fixtures should be located above aisles between cabinets rather than directly above cabinets or overhead cable pathway systems.

Emergency lighting and exit signs shall be properly placed per authority having jurisdiction (AHJ) such that an absence of primary lighting will not hamper emergency exit.

It is recommended that a three-level lighting protocol be used in data centers depending on human occupancy.

ANSI/TIA-942-A-2012 -
Telecommunications Infrastructure Standard for Data Centers

DATA CENTER PROJECTS

nulumentek have delivered lighting solutions for multiple Data centres in Europe and the Middle East working in Partnership with specialist Contractors. We design, manufacture, supply and commission all lighting solutions including general Internal & external lighting, Emergency Lighting, Central Battery systems, Lighting controls and on-site commissioning.

01 - Confidential Data Centers

Bahrain

nulumentek delivered the full lighting package for these 3x16MW Data centres in Bahrain, this included internal general lighting, emergency Lighting, Lighting Controls and external Lighting.

Projects BAH 051, 052 and 053

YEAR	2018 - Ongoing
SCOPE	Lighting calculations, design support and supply of all internal, external and emergency lighting.
DESIGN CONSULTANTS	Confidential
SPECIALIST CONTRACTOR	Jones Engineering Group, STS Group

02 - Confidential Data Center

UAE

nulumentek delivered the General lighting for all internal and external areas for this 16MW Data centre.

Project DBX 061

YEAR	2022 - Ongoing
SCOPE	Design and supply of all internal and external lighting systems
DESIGN CONSULTANTS	Confidential
SPECIALIST CONTRACTOR	STS Group



03 - Confidential Data Center

Switzerland

nulumentek delivered the General lighting for all internal and external areas for this 12MW Data centre.

Project SH4 Data Centre.

YEAR	2020
SCOPE	Design and supply of all internal and external lighting systems.
DESIGN CONSULTANTS	Confidential
SPECIALIST CONTRACTOR	STS Group

04 - Confidential Data Center

Sweden & Denmark

nulumentek delivered the general lighting for all external areas for this 14MW Data centres, with a total of 15 sites delivered up to date.

YEAR	2019 - Ongoing
SCOPE	Design , Manufacture and supply all external lighting solutions
DESIGN CONSULTANTS	Confidential
SPECIALIST CONTRACTOR	Kirby's Dornan Engineering Priority Engineering

05 - Confidential Data Center

Saudi Arabia

nulumentek delivered the full lighting package for these 12MW Data centres in Saudi Arabia this included internal general lighting, Emergency Lighting, Central battery's, Lighting Controls and external Lighting.

Projects Stingray and ShovelNose

YEAR	2022 - 2023 - Ongoing
SCOPE	Design , Manufacture and supply Internal general lighting, Emergency Lighting, Central battery's, Lighting Controls and external Lighting.
DESIGN CONSULTANTS	Confidential
SPECIALIST CONTRACTOR	Jones Engineering Group



06 - Confidential Data Center

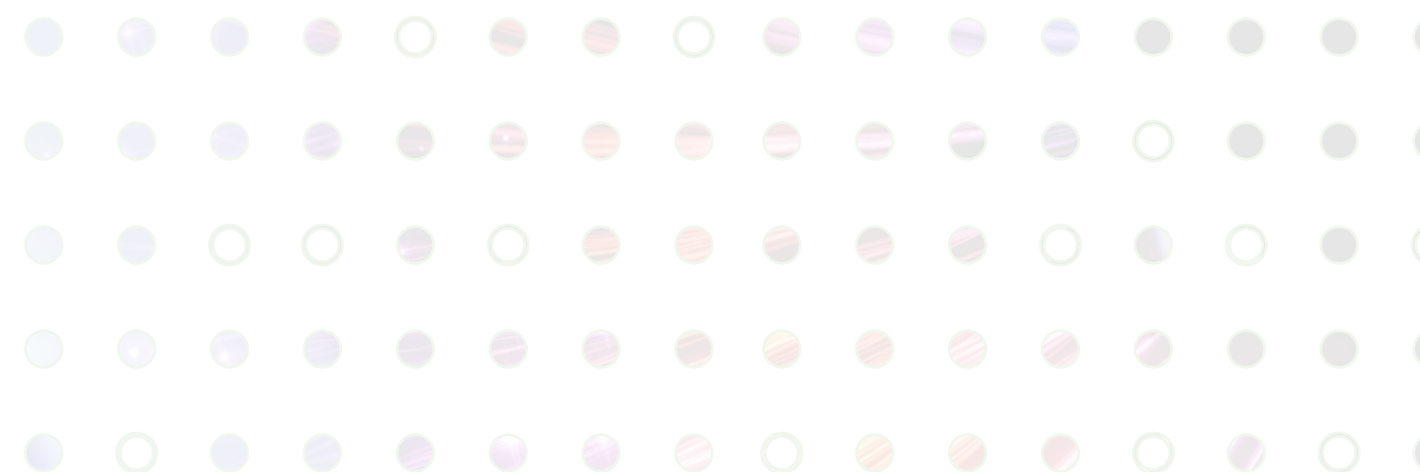
Netherlands

nulumentek delivered the General lighting for all internal and external areas for this 10MW Data centre.

YEAR	2023
SCOPE	Design , Manufacture and supply Internal lighting solutions
DESIGN CONSULTANTS	Confidential
SPECIALIST CONTRACTOR	R&M Electrical group.



Operating from offices in Ireland, the UK, and across the Middle East, our team is composed of dedicated professionals, including engineers, project managers, architects, designers, and creatives.



THE nulumentek FOOTPRINT



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Ext: 500



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Ext: 700



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UAE / ABU DHABI

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KSA / RIYADH

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Ext: 300



KSA / JEDDAH

nulumentek KSA 2nd Floor, Building 4176 Al Kayal Street, Ar Rawdah, Jeddah, Saudi Arabia

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Ext: 200



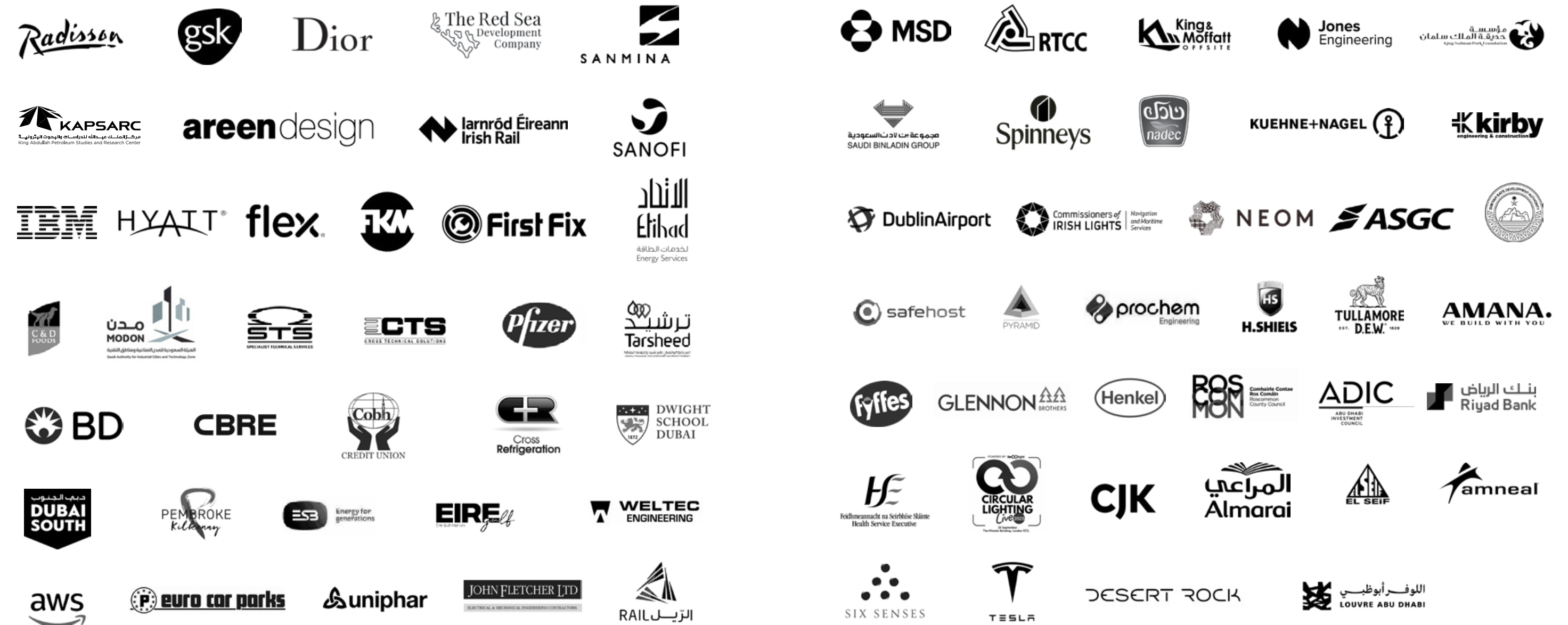
EGYPT / CAIRO

45th Abd El Hameed Badawy St. El Nozha, Cairo, Egypt 3rd Floor

T: +20 2 26233598

SELECT CLIENTS

nulumentek is a trusted provider of advanced lighting solutions, working on a confidential basis with several Tier 1 firms and Fortune 500-level organizations. Our reputation for innovation, quality, and reliability has positioned us as a preferred partner across high-profile infrastructure, commercial, and public sector projects in Europe and the Middle East





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