HOLOPHANE®

Data centre environments

Complete site-wide lighting solutions.

MADE IN BRITAIN

Why Holophane?

Established in 1896, Holophane is one of Europe's leading lighting manufacturers. We are trusted across mission-critical environments for our expertise in optical performance, smart controls and circular product design.

Whether you are lighting data halls, plant rooms, control spaces, roof facilities or external areas, our systems are designed to support safety, reliability and long-term performance across demanding data centre environments.

We support every stage of data centre delivery, working with operators, consultants and contractors to meet ASHRAE best practices, EN 12464 lighting quality standards, and the latest TM66-certified sustainability targets.

Here's what sets us apart:

Precision optical control

The prism in our logo reflects more than a century of lighting innovation. From early glass refractors to advanced PrismaLED optics, we design for controlled volumetric illumination. Light is directed not just onto the floor, but across vertical rack faces, equipment panels and working planes where clarity truly matters.

Circularity & enviromental leadership

Every Holophane luminaire is designed with sustainability in mind. Independently assessed through TM66 and TM65, our products are serviceable, upgradeable and built to last. We reduce packaging waste, remove unnecessary plastics and support our customers' long-term environmental objectives.

Connected intelligence

Our smart control platforms provide secure, wireless lighting control across internal and external areas. Operators can automate dimming, manage occupancy zones, detect faults and optimise energy use through scalable systems designed for mission-critical infrastructure.

Lower lifetime costs

Our luminaires are engineered for thermal performance, ingress protection and long-life operation. High-lumen maintenance and right-to-repair design reduce servicing requirements, extend product life, and lower the total cost of ownership across the data centre estate.

Discover how Holophane can optimise your data centre
Ask us about smart, sustainable lighting that delivers
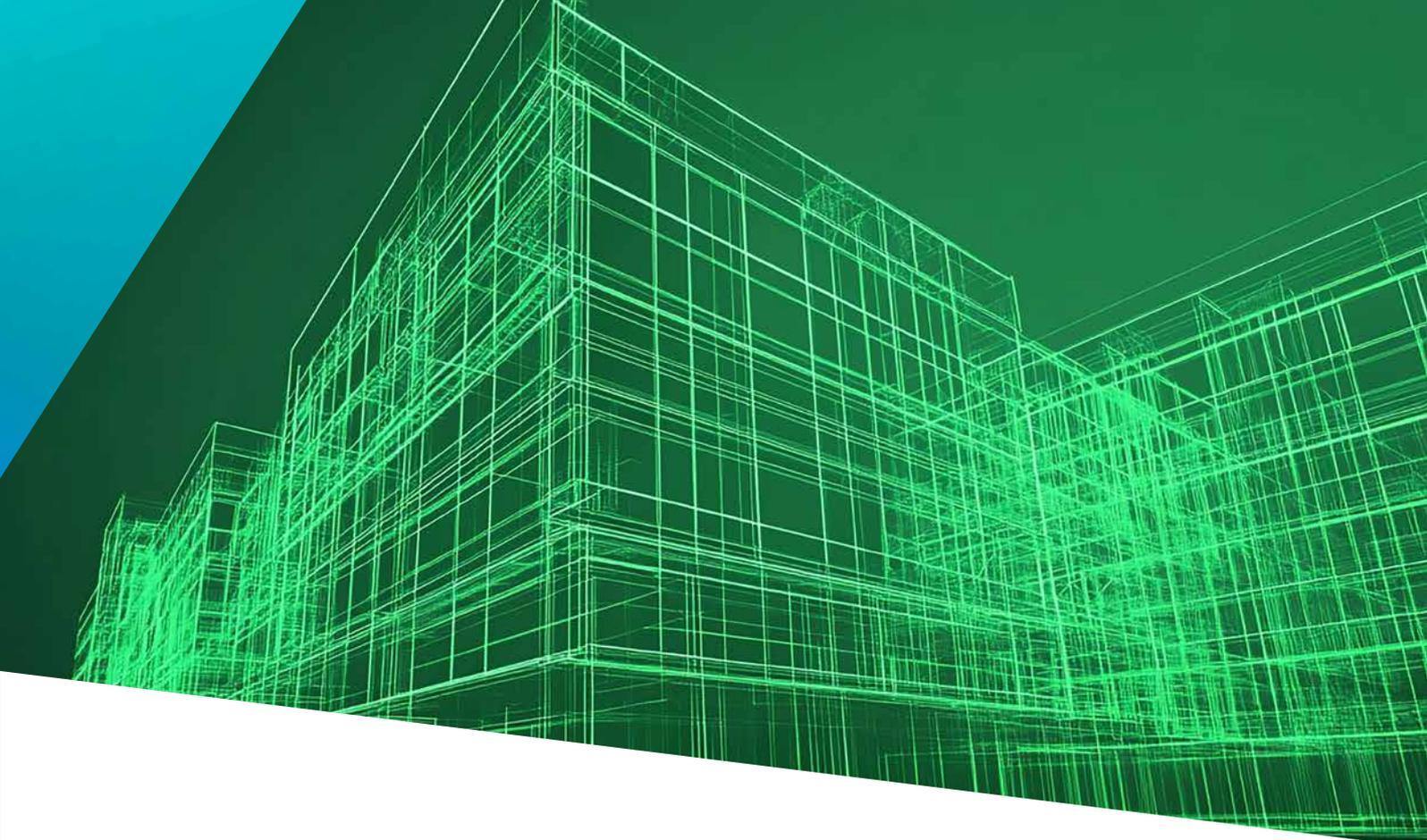
Optimising data centre spaces for performance, safety and long-term value

Quality
—

Our systems are engineered for dependable performance in demanding, 24-hour environments. Every luminaire is designed for clarity, low glare and stable output.

Lighting technology
—

PrismaLED optics and advanced LED engines deliver controlled volumetric illumination across both vertical and horizontal surfaces. Rather than concentrating light solely on the floor, illumination is distributed onto rack faces and working planes, enhancing visual clarity, inspection accuracy and safe working conditions in demanding environments.

Efficient installation
—

Modular components, tool-free access and flexible mounting options support efficient installation for minimal disruption in live operational spaces.

Flexibility
—

We provide lighting solutions across the entire data centre estate, supporting data halls, plant rooms, control spaces, roof facilities and external environments.

Sustainability
—

Circularity is embedded throughout our range. TM66-certified luminaires, recyclable glass optics and smart energy-saving controls help reduce operational carbon and improve long-term performance.

Impact
—

Built for longevity and easy maintenance, our luminaires reduce servicing requirements, extend life and support predictable running costs across the full estate.

Meeting the lighting challenges within modern data centres

Modern data centres are becoming increasingly complex. High-density equipment, thermal zones, restricted maintenance windows and strict uptime requirements place heavy demands on lighting performance.

Holophane helps address these challenges through controlled optical distribution, dependable engineering and lighting systems designed for long-term resilience.

Challenge 1:
Safety and visibility
Technicians work between densely packed racks, where shadows, glare and low vertical illumination can lead to mistakes.

Holophane solution:
Volumetric optical control distributes light evenly across rack faces and working planes, reducing shadowing and contrast variation commonly caused by conventional downward lighting.

Challenge 2:
Thermal loading and environmental control
High temperatures and fluctuating aisle conditions can degrade lighting over time and affect equipment.

Holophane solution:
Thermally stable luminaires are designed to maintain light output, resist heat-related degradation and minimise impact on cooling systems in demanding environments.

Challenge 3:
Operational uptime and maintenance
Frequent lamp or driver failures disrupt operations and increase risk in 24/7 facilities with limited downtime windows.

Holophane solution:
Long-life LED engines, upgradeable components and right-to-repair design reduce intervention and extend service intervals.

Challenge 4:
Energy consumption and sustainability pressures
Data centres face some of the world's most aggressive energy and carbon reduction targets.

Holophane solution:
High-efficacy luminaires, adaptive controls and TM66-certified circularity help cut operational energy use and reduce whole-life environmental impact.

Challenge 5:
Compliance and design assurance
Lighting must comply with EN12464 standards, technical documentation, and planning requirements without interrupting critical operations.

Holophane solution:
Holophane specialists provide compliant lighting design, optical modelling and installation support tailored to complex data centre environments.
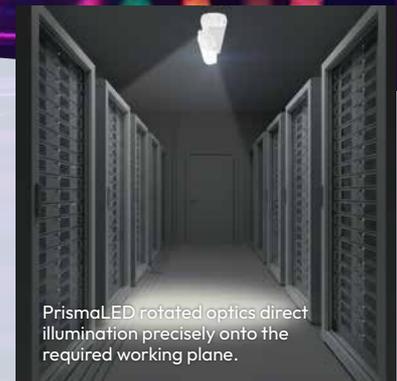
Challenge 6:
Human comfort and ergonomic performance
Prolonged exposure to poor lighting can lead to eye strain, reduced focus, and lower accuracy, especially during inspection tasks.

Holophane solution:
PrismaLED technology minimises glare, balances contrast and improves visual comfort across varied aisle configurations.

Standard luminaire concentrates illumination on the floor.

PrismaLED uniform optics distribute light across floor and rack faces.

PrismaLED rotated optics direct illumination precisely onto the required working plane.

prismaled™

Holophane's optical control advantage

Precision volumetric illumination for mission-critical environments

In data centres, clarity is critical. Technicians work between high-density racks where vertical visibility, low glare and stable colour performance are essential for accuracy and operational safety. PrismaLED optics deliver controlled volumetric illumination, directing light onto rack faces and working planes to improve inspection accuracy, reduce visual fatigue and enhance equipment readability.

—

PrismaLED™ optical technology delivers four essential advantages:

- Reduces discomfort and disability glare to improve visibility within narrow aisles and high-density technical areas.
- Maximises optical control by creating a more uniform distribution that reduces hotspots and shadows.
- Blends and controls light from multiple LEDs to ensure consistent colour output and enhanced visual clarity across the data hall.
- Minimises the effect of LED failure, resulting in a general dimming instead of isolated dark spots. This supports predictable long-term performance.

Experience the optical control built for data centres
Book your volumetric lighting demo with our technical specialists

Tailored solutions for every data centre environment

(A) Data halls

High uniformity, low glare and strong vertical illumination to support inspection, servicing and safe working conditions across high-density racks and hot and cold aisle layouts.

(B) Plant rooms

Durable, reliable lighting designed to support maintenance, safety checks and fault identification within electrical and mechanical plant environments, including UPS and battery areas.

(C) Control rooms

Low-glare, visually comfortable lighting that supports screen-based monitoring, extended shifts and accurate decision-making in control and operational spaces.

(D) Reception and circulation

Welcoming, glare-free lighting that supports intuitive wayfinding, visual comfort and secure movement through the building.

(E) Roof facility

Robust exterior lighting solutions designed to support safe access, maintenance and dependable performance in exposed rooftop environments.

(F) External and security

Consistent, controlled exterior lighting supporting vehicle movement, pedestrian safety and site security across car parks, access routes and perimeter areas.

Lighting for every data centre application

We deliver complete lighting solutions for your entire data centre estate. From technical spaces and critical infrastructure to circulation zones and secure exterior areas, our luminaires are engineered for clarity, performance and long-term reliability.

From perimeter to data hall, our data centre-ready luminaires deliver performance without compromise

Clear, controlled illumination for high-density rack environment

Smart lighting that enhances accuracy and uptime
Book your data hall lighting review

Our recommended products:

Designed to deliver precise optical control, strong vertical illumination and long-term performance in high-density data hall environments.
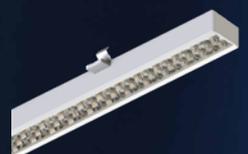
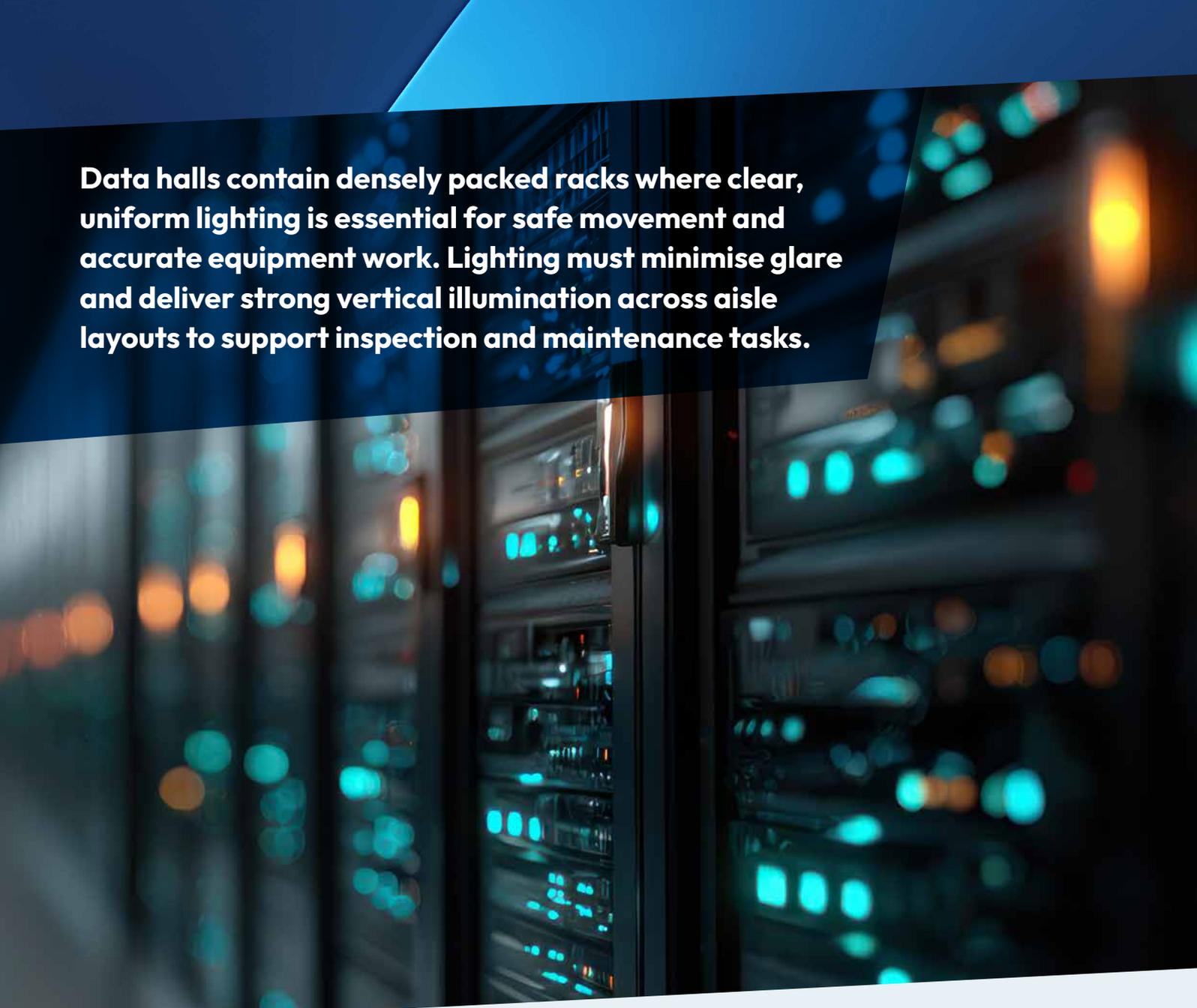**Prismaspace**   **Hi-Beam**   **CSVT**   **FLEXOswitch**   **FLEXOvision**

Data halls contain densely packed racks where clear, uniform lighting is essential for safe movement and accurate equipment work. Lighting must minimise glare and deliver strong vertical illumination across aisle layouts to support inspection and maintenance tasks.

Challenges

- Shadows and uneven illumination reduce visibility on vertical rack faces
- Glare and contrast variation strain technicians' eyes and slow inspection tasks
- Obstructions such as cable trays and ductwork disrupt uniform light distribution
- Temperature variation within hot and cold aisle arrangements can affect lighting performance
- Limited maintenance windows increase reliance on long-life, dependable systems

Holophane solutions

Holophane luminaires with PrismaLED optics deliver controlled volumetric illumination, distributing light across vertical rack faces and horizontal working planes rather than concentrating solely on the aisle floor. This enhances clarity on ports, cabling and equipment surfaces, supporting accurate inspection and servicing within narrow aisles.

Selectable and adjustable optic configurations allow light distribution to be precisely aligned with aisle layouts, maintaining consistent vertical illumination even where cable containment, ductwork and services interrupt the light path.

Thermally stable construction and sealed optical systems maintain performance across varying aisle temperatures. High-efficiency LED engines and advanced thermal management sustain lumen output over time, reducing intervention in 24/7 environments.

Where energy efficiency is required, luminaires integrate with smart controls to enable occupancy sensing, scheduling and performance insight, optimising lighting use without compromising safety or visibility.

Plant room lighting

Reliable illumination for critical mechanical and electrical environments

Lighting built for reliability and uptime
Book your plant room lighting review

Our recommended products:

Designed to deliver dependable performance, durability and long service life within demanding mechanical and electrical plant environments.

Prismaspace
+ IP65 versions

CSVT

Prismpack

Plant and switchgear rooms contain complex mechanical and electrical equipment, including UPS and battery systems. Lighting must provide clear visibility around machinery while performing reliably in environments exposed to heat, dust and vibration.

Challenges

- Complex machinery, ducting and pipework create obstructed sightlines

- Shadows and glare can obscure gauges, labels and indicators

- Elevated temperatures, dust and vibration place sustained stress on lighting systems

- Restricted access limits maintenance opportunities, increasing reliance on long-life solutions

- Emergency and fault conditions demand dependable, stable illumination

Holophane solutions

Holophane luminaires deliver uniform, controlled illumination that enhances visibility around mechanical and electrical plant. Clear, consistent light supports accurate identification of controls, indicators and equipment surfaces, improving safety and operational confidence.

Robust construction, sealed optical systems, and engineered thermal management help maintain performance under elevated temperatures and challenging environmental conditions. Long-life components and modular design reduce intervention and support efficient maintenance in restricted plant room environments.

Where energy and operational efficiency are priorities, luminaires integrate with smart controls to enable scheduled operation, zoned control and fault detection, helping optimise lighting use without compromising safety or reliability.

Visually comfortable illumination for monitoring, analysis and decision-making environments
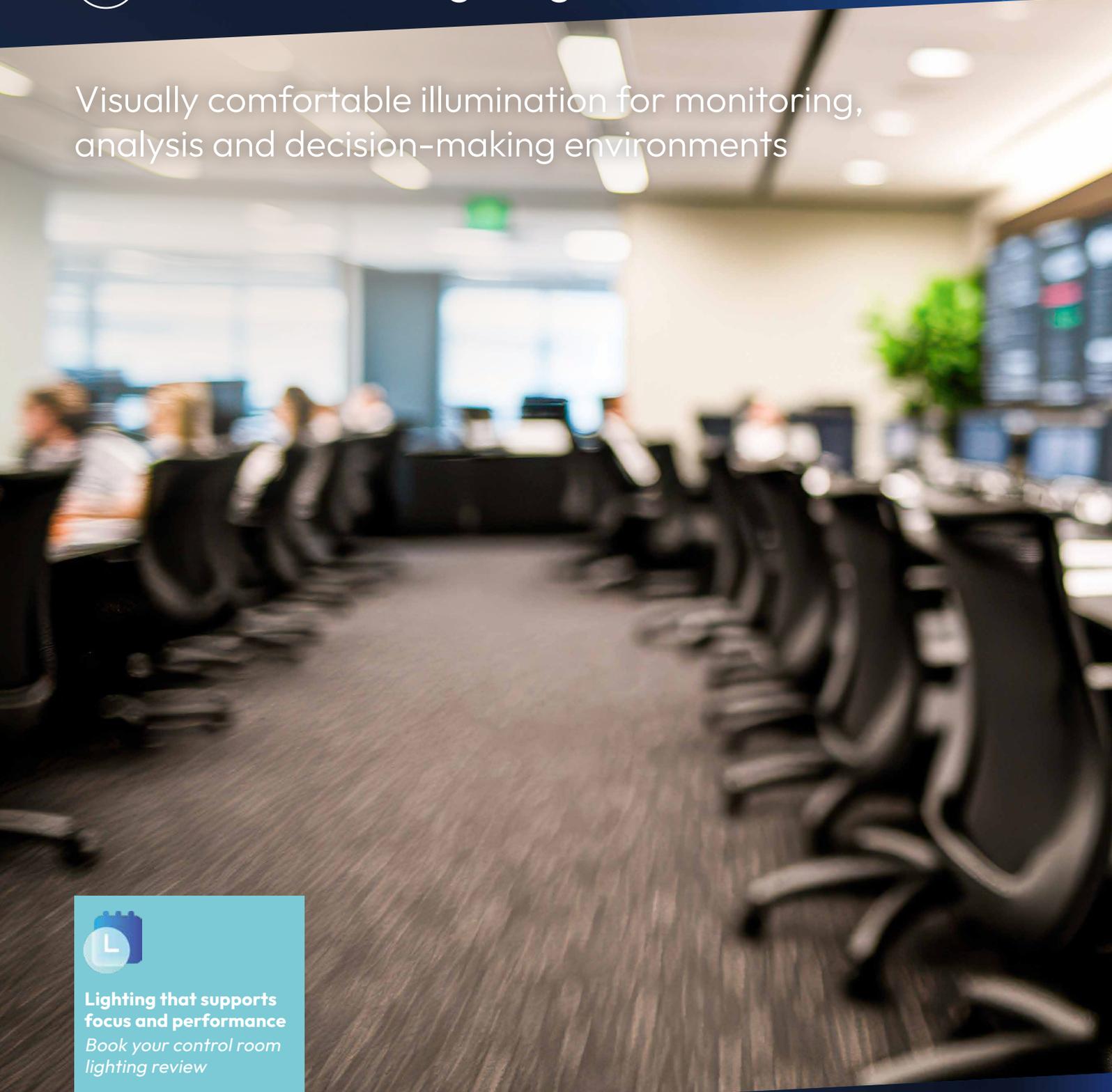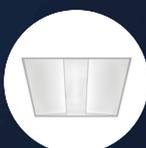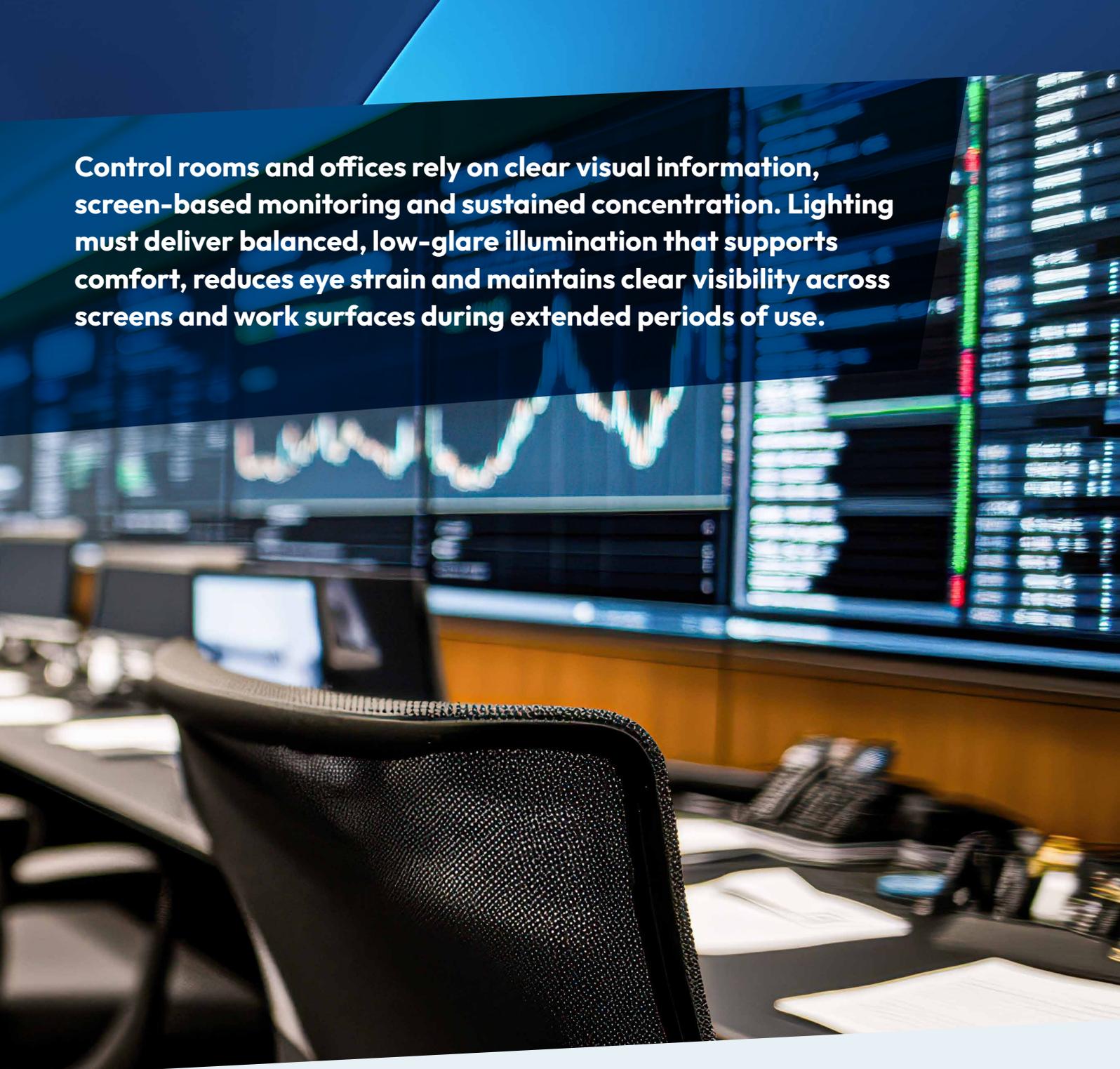
Lighting that supports focus and performance
Book your control room lighting review

Our recommended products:

Designed to deliver low-glare, visually comfortable illumination with long-term stability in control and monitoring environments.

Control rooms and offices rely on clear visual information, screen-based monitoring and sustained concentration. Lighting must deliver balanced, low-glare illumination that supports comfort, reduces eye strain and maintains clear visibility across screens and work surfaces during extended periods of use.

Challenges

- Screen glare and reflections reduce visibility and increase eye strain

- Inconsistent lighting levels cause visual fatigue during extended shifts

- Poor colour quality and contrast affect the accurate interpretation of data

- Changes in ambient light can disrupt focus and operator comfort

- Reliability is critical in environments with continuous operation

Holophane solutions

Holophane luminaires deliver low-glare, uniform illumination that supports visual comfort and sustained concentration in control environments. Carefully controlled light distribution reduces reflections on screens and balances contrast across work surfaces.

High-quality LED engines provide stable colour performance and consistent output, supporting accurate interpretation of information and reducing visual fatigue over long operational periods.

Where required, luminaires integrate with smart controls to enable scene setting, scheduling and adaptive lighting levels, allowing control rooms to respond to operational demands without compromising comfort or reliability.

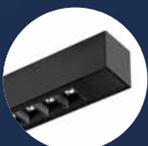# Welcoming, clear illumination for secure access and movement

Lighting that guides, reassures and performs
Book your reception and circulation lighting review

Our recommended products:

Designed to deliver consistent, glare-free illumination that supports wayfinding, security and visual comfort in reception and circulation spaces.

Reception and circulation spaces shape first impressions and support safe, intuitive movement through the building. Lighting must balance visual comfort, clarity and orientation while maintaining consistency with access control and the wider site lighting strategy.

Challenges

- Glare and uneven lighting can cause discomfort and disorientation
- Poor contrast reduces visibility at access points and circulation routes
- Inconsistent lighting levels undermine wayfinding and spatial clarity
- Integration with security and access control systems is essential
- Lighting must perform reliably with minimal maintenance

Holophane solutions

Holophane luminaires deliver uniform, glare-controlled illumination that enhances visual comfort and spatial clarity in reception and circulation areas. Balanced light distribution supports intuitive wayfinding and safe movement while maintaining a welcoming environment.

Consistent colour quality and controlled contrast help ensure clear visibility at entrances, access points and circulation routes. Robust construction and long-life components reduce maintenance demands in frequently used spaces.

Where required, luminaires integrate with smart controls to support scheduled operation, zoning and alignment with access control and security systems, maintaining efficiency without compromising safety or user experience.

Robust illumination for exposed access and critical equipment

Lighting designed for exposed environments
Book your roof facility lighting review

Our recommended products:

Designed to deliver durable, weather-resistant performance with controlled illumination in exposed rooftop environments.

Denver iD Wall   **Denver Elite Wall**   **Wallpack**

Roof facilities house critical plant equipment and provide access routes for inspection and maintenance. Lighting must provide reliable illumination that supports safe access and task visibility in exposed external locations.

Challenges

- Exposure to weather, temperature extremes and environmental contaminants
- Limited access and restricted maintenance opportunities
- Safety risks during night-time inspections and emergency work
- Glare and uncontrolled spill affecting visibility and neighbouring areas
- Long service life requirements for hard-to-reach installations

Holophane solutions

Holophane luminaires are engineered for reliable performance in exposed rooftop environments. Robust construction, sealed optical systems, and dependable thermal management help maintain consistent light output despite challenging weather conditions.

Controlled light distribution supports safe movement and task visibility while minimising glare and unnecessary spill. Long-life components reduce maintenance requirements, supporting safer access and fewer interventions throughout the installation's service life.

Where required, luminaires integrate with smart controls to enable scheduling, monitoring and efficient operation aligned to site activity, without compromising safety or reliability.

Consistent, controlled illumination
for safety, access and security

L **Lighting that protects people and performance**
Book your external lighting review

Our recommended products:

Designed to deliver controlled exterior illumination that supports safety, security and long-term performance across data centre sites.

D-Series **CityMax** **CityMax+ Large** **Denver iD Pole** **Denver iD Bollard** **Denver Elite Wall**

External areas support vehicle movement, pedestrian access and site security across the wider data centre estate. Lighting must deliver clear visibility, controlled distribution and dependable performance while minimising glare, spill and maintenance intervention.

Challenges

- Large external areas require consistent illumination for safe movement
- Poor control can create glare, spill and dark spots
- Lighting must support CCTV performance and site security
- Exposure to weather increases maintenance and failure risk
- Compliance and environmental considerations must be managed

Holophane solutions

Holophane exterior luminaires provide controlled, uniform illumination that supports vehicle and pedestrian safety while maintaining clear visibility across access routes and parking areas.

Precise optical control helps manage glare and light spill, supporting security systems and neighbouring environments. Robust construction and long-life components reduce maintenance requirements and support reliable operation in exposed conditions.

Where required, luminaires integrate with smart controls to enable scheduling, monitoring and adaptive operation aligned to site activity and energy management goals.

Innovation and partnership built in

Lighting systems engineered for mission-critical performance

From first concept to final commissioning, Holophane delivers lighting systems designed for clarity, resilience and long-term value. Our innovation is built on precision optics, advanced thermal engineering and serviceable design, ensuring dependable performance across demanding, 24-hour data centre environments.

Whether you need smart control integration, circular design or support with complex infrastructure layouts, we work alongside your teams to help get every detail right.

Trusted delivery

—

With more than a century of lighting expertise, Holophane is trusted across mission-critical sectors for reliable performance and consistent quality. Our products are manufactured in Britain and independently tested to ensure they perform in the environments that matter most.

Certified quality

—

Every luminaire is verified against TM66 and TM65 guidance and manufactured in Milton Keynes to ISO 9001 quality standards. Products are designed to meet EN and BS requirements for safety, performance and optical control.

Smart control built in

—

All luminaires are compatible with HOLOSOne, enabling energy optimisation, diagnostics, scheduling and emergency behaviour as standard. This ensures every data centre project is ready for scalable, future-proof lighting control.

Design support

—

From surveys and modelling to TM66 assessments, Lux calculations and full CAD layouts, our design teams help ensure every lighting plan meets your brief, budget and compliance requirements.

Sustainability by design

—

Holophane luminaires follow EarthLIGHT principles, built to be recyclable, serviceable, and low carbon across the full lifecycle. Our products are engineered for long-term efficiency without compromising performance or durability.

Warranty & aftercare

—

Standard 5-year warranty with extension options. Delivered with full commissioning and field support.

Our partnership approach

Lighting excellence from the very start

Early engagement ensures safe, compliant and efficient designs from concept through to installation.

Expertise and collaboration throughout the project

We support consultants, contractors and operators at every stage to ensure the best possible outcome for each site.

A single-source provider

One team, one smart-ready portfolio that delivers reliable lighting and scalable control across your entire estate.

HOLOSOne
Technology Partner **SILVAIR**

Smarter lighting for efficient and resilient data centre operations

HOLOSOne is Holophane's wireless lighting control platform that connects and manages lighting across the entire data centre estate.

Built on secure Bluetooth NLC Mesh technology, it provides centralised visibility, simple deployment and scalable control without the need for dedicated cabling. The system supports energy-saving behaviours and helps operators maintain consistent lighting performance in mission-critical environments.

Unified control
One control system for data halls, support areas, plant rooms and external spaces.

Diagnostic insight
Supports emergency testing, system health monitoring and real-time status reporting.

Simple to deploy
Wireless commissioning with no cabling required.

Scalable architecture
Start with standalone mesh control and scale to cloud-enabled features without replacing infrastructure.

Energy efficient
Occupancy sensing, daylight harvesting and scene setting support measurable savings.

Built to last
Designed for data centre conditions and backed by expert support.

Control that adapts to every application.

HOLOSOne supports efficient and reliable operation across all data centre zones. It delivers aisle-level dimming in data halls, occupancy-based strategies for corridors and plant rooms, and adaptive lighting for car parks, access roads and perimeter areas. The platform ensures consistent control behaviours across the estate while supporting energy optimisation and compliance.

Simplify energy management and futureproof your estate
Talk to our controls team

Earth LIGHT

Sustainability built in.

We do more than support your sustainability targets. We help you go further.

EarthLIGHT is Holophane's sustainability initiative that brings circularity, material efficiency and responsible manufacturing into every luminaire. From product design to packaging and long-term serviceability, EarthLIGHT helps data centre operators reduce environmental impact, strengthen resilience and improve lifecycle value across the entire estate.

Circularity by design

Every luminaire is designed for serviceability, disassembly and reuse. TM66 assessments verify our circularity scores, providing transparent and credible insight into how each product supports long-term material recovery and extended lifecycle value.

Made in Britain

Our products are manufactured in Milton Keynes in accordance with ISO 9001 and ISO 14001 standards. Local production helps reduce transport impact and ensures consistent quality.

Energy and control

High-efficacy LED engines and control-ready luminaires support energy optimisation. When paired with HOLOSOne, operators can reduce consumption and monitor performance across internal and external applications.

Sustainable supply chain

We work with local, responsible suppliers, reduce packaging waste, and prioritise recycled or low-impact materials throughout the product lifecycle.

Lower embodied carbon

TM65 assessments measure the embodied carbon of materials and manufacturing. This helps data centre operators make informed choices that reduce Scope 3 emissions and support sustainability goals from the outset.

Right to repair

We design luminaires for long-term use. Modular components, accessible spares and local support extend replacement cycles and assist maintenance teams.

Strengthen your sustainability strategy with verified performance
Talk to our sustainability team

Lighting that keeps your data centre running.

We help operators, consultants and engineers create efficient, resilient and safe data centre environments. Our luminaires deliver precision optical performance, long-term reliability and smart control capability to support continuous operation across your estate.

Whether supporting a single facility or an entire estate-wide lighting strategy, Holophane is ready.

Holophane Europe Ltd.
Bond Avenue, Bletchley,
Milton Keynes, Bucks, MK1 1JG

01908 649292
info@holophane.co.uk
holophane.co.uk

ILP GOLD GROUP MEMBER

theLIA