

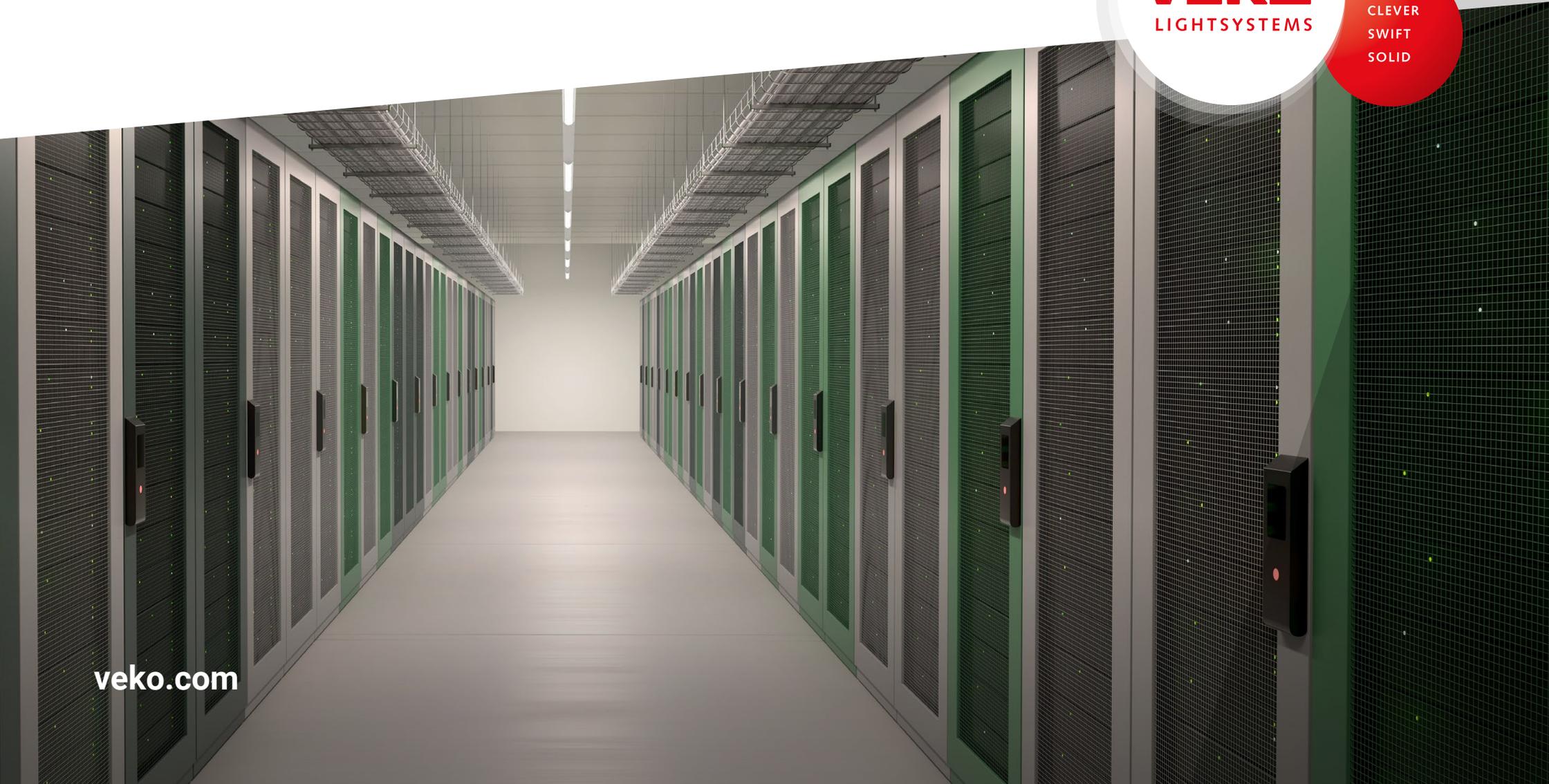
Data Centre Lighting

Designed to deliver

VEKO
LIGHTSYSTEMS

CLEVER
SWIFT
SOLID

veko.com



Expertise that de-risks your project at every stage

Fagerhult Group

As part of the Fagerhult Group, we bring proven expertise, built on more than 50 Data Centre projects across Europe spanning enterprise, colocation and hyperscale environments.



Hyperscale

Large-scale facilities owned and operated by cloud services providers.



Colocation

Facilities built with client flexibility in mind.



Enterprise

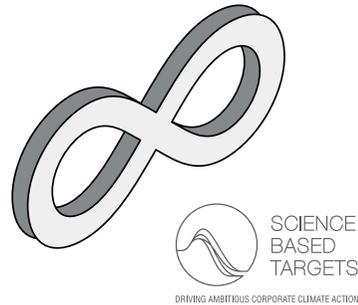
Localised client-specific facility.

Lighting engineered for Data Centres



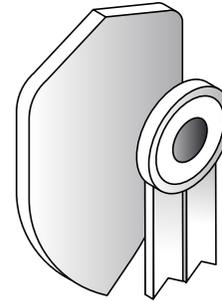
Rapid installation

Our Light Line solution for data halls is pre-assembled, pre-tested, plug-and-play. Our two-person teams can install up to 250 metres per day – cutting time on site by up to 50%.



Exceptional reliability

Because we pre-assemble the Light Line, it has fewer on-site connections and fewer points of failure. Its aluminium body provides excellent thermal management, ensuring reliable performance over time.



Sustainability and circularity

Our circular design principles support your ESG targets – rooted in our own SBTi-validated net-zero journey.



Comfort and compliance

From initial design to final sign-off, we ensure lighting performance and compliance are built in from the start.

Light Line: pre-assembled and ready to install

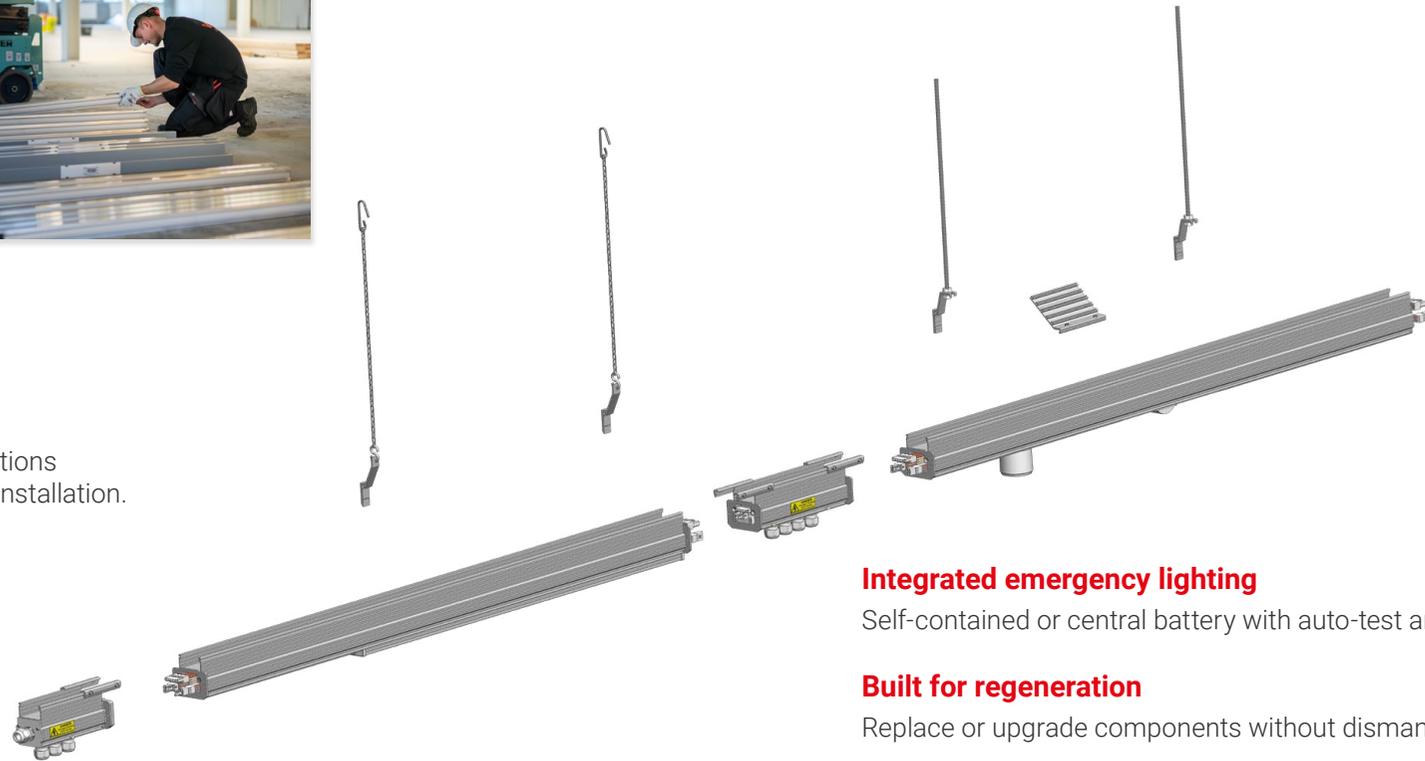


Plug-and-play modularity

Pre-assembled and pre-tested sections connect instantly on site for rapid installation.

250m
installed per day

with a two-person
team



Integrated emergency lighting

Self-contained or central battery with auto-test and reporting.

Built for regeneration

Replace or upgrade components without dismantling.

Sensor-ready for smart control

Compatible with leading sensors and control systems.

Built to perform in demanding white spaces



Built to handle 50°C and beyond

Aluminium trunking system delivers outstanding thermal management, reducing component stress for longer lifetime performance.



Fewer joints, fewer failures

Pre-assembled, plug-and-play aluminium modules reduce joints and on-site connections, lowering the risk of errors or failure in demanding data hall environments.



High-performance driver rated to 100,000 hours

Engineered for industrial environments, our driver delivers over 10 years continuous use, reducing maintenance demands and minimising downtime.



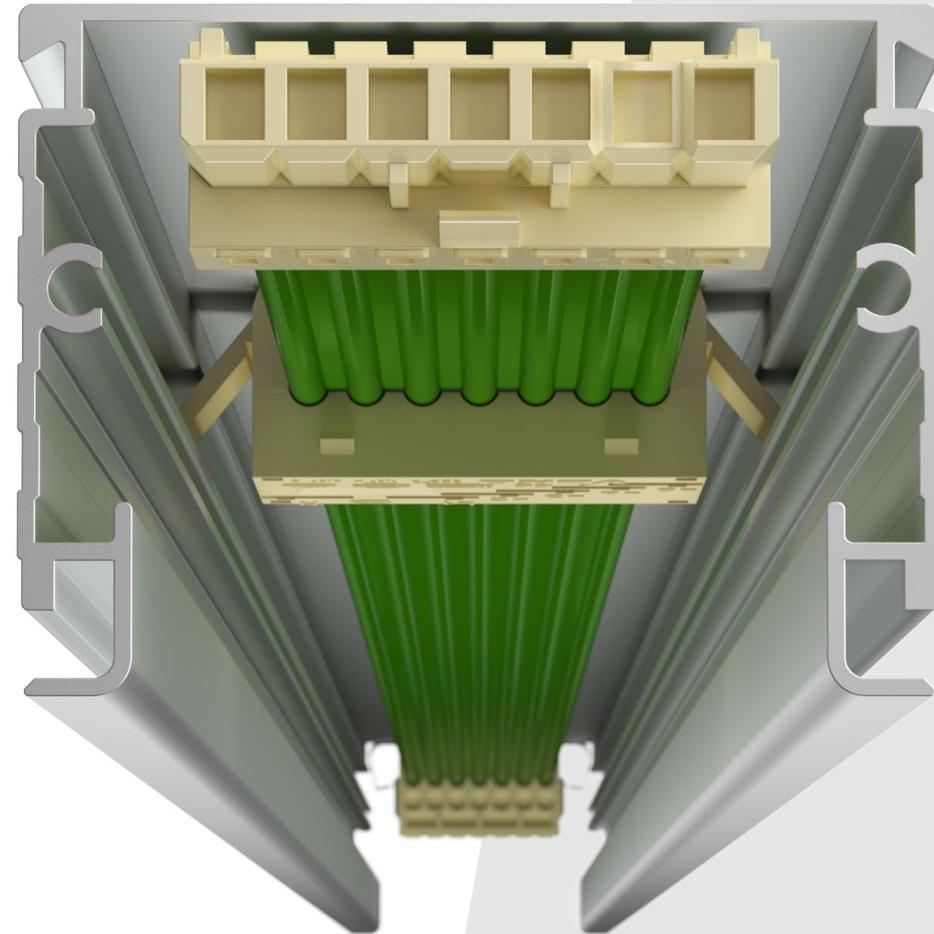
Optimise your Power Usage Effectiveness (PUE)

Premium LEDs and precision optics deliver a low-energy lighting solution that reduces electrical load and limits thermal gain across the building.



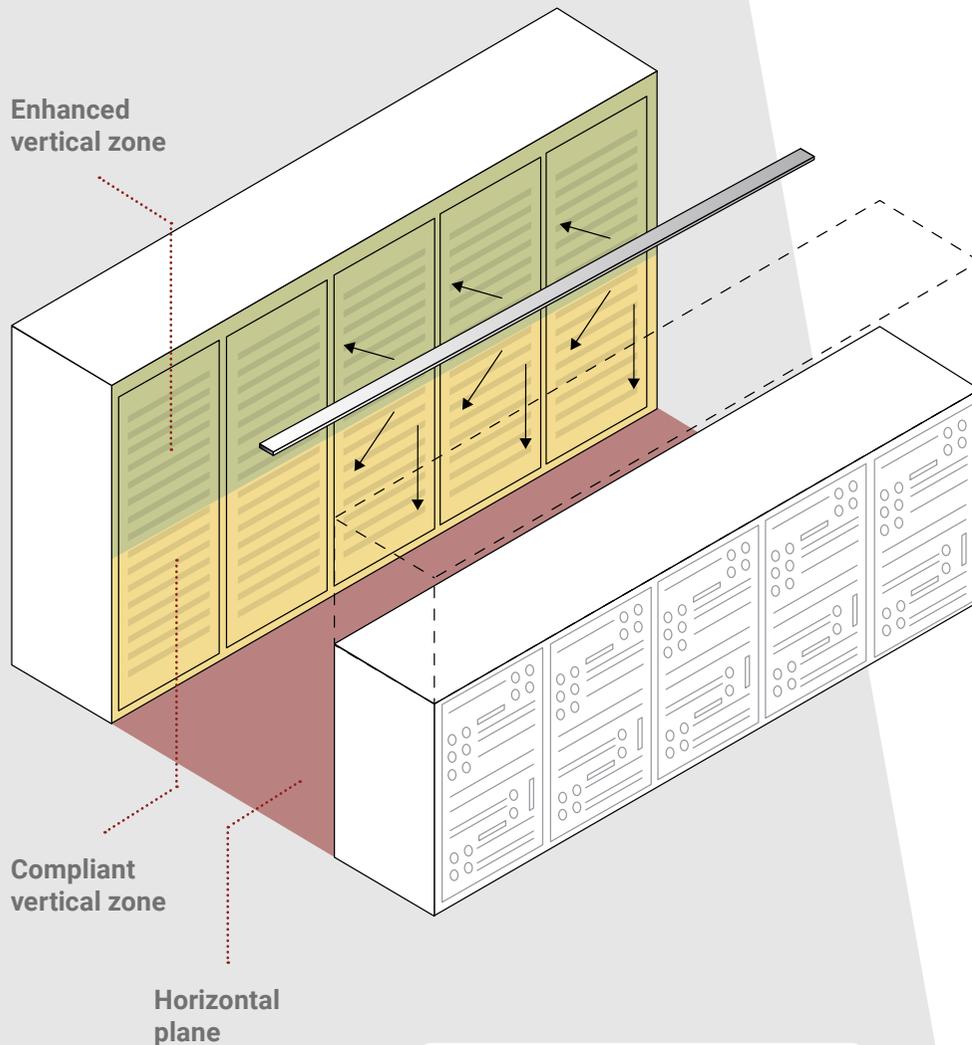
Recycled and recyclable

Our aluminium body is made from over 70% recycled material and provides a more sustainable end-of-life pathway than steel.



Aluminium profile with 7 cores
(10 or 13 cores possible).

The data hall solution



Lighting performance	
Hilde Oval	Magnus Diffuse
500 lux	500 lux
200 lux	500 lux
200 lux	500 lux
10 W/metre	24 W/metre

Lighting's role in supporting PUE

Although lighting typically accounts for a small portion of a Data Centre's non-IT energy load compared to other systems, it still plays an important role in improving Power Usage Effectiveness (PUE).

By implementing high-efficiency LED luminaires, smart controls, and application driven lighting design, Data Centres can significantly reduce lighting related energy consumption.

This reduction directly lowers total facility energy use, positively influencing the project's PUE target and reinforcing an energy-conscious approach across all building services.

High-efficacy lighting for lower energy use

Our data hall Light Line solutions use light sources rated up to 212 lm/W, with overall luminaire efficacy exceeding 180 lm/W. Paired with precision optics that direct light only where it's needed, this reduces waste and lowers installed load.

Visual comfort and compliance

Maintenance teams need to carry out precise, hands-on work, often with small components and in challenging conditions.

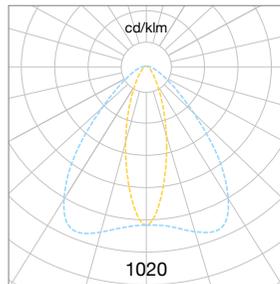
Our lighting ensures the clarity and comfort they need, delivering consistent vertical and horizontal illumination in line with TIA-942 requirements, and meeting EN 12464 standards for uniformity, glare control, and colour rendering.

Hilde Oval

Optimised light distribution with UGR <22 for lowest energy

Delivers exceptional vertical illumination and broad, even light coverage to enhance visibility across server racks and equipment positioned at higher levels. This ensures a consistent and well-lit environment that supports efficient monitoring and maintenance activities. A cost-effective solution for general data hall applications, delivering high performance without exceeding budget constraints.

- Supports premium PUE performance
- Up to 50% energy savings over wide-beam solutions
- Ultra-efficient lens-based optic
- Meets horizontal and vertical illuminance requirements
- Low-glare UGR <22 compliance



- 29.5W
- 5500 lm
- Will achieve 500 lux on the floor of a data hall aisle using 3m axial spacing

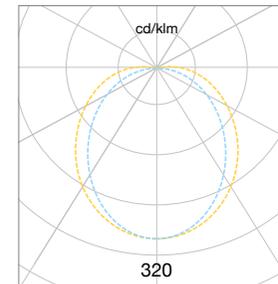


Magnus Diffuse

Visual comfort with exceptional vertical illuminance

Exceptional broad, even coverage, ideal for environments where higher levels of vertical illuminance are key. A cost-effective, solution for general data hall applications.

- 500 lux on both horizontal and vertical planes
- Superior performance across wider aisles
- Homogeneous lit effect enhances visual comfort



- 73W
- 11500 lm
- Will achieve 500 lux on the floor of a data hall aisle using 3m axial spacing



Total partnership, total project solution

From early design consultancy to handover, our team ensures seamless, de-risked lighting across every project stage, every zone and every application area. One lighting partner, one source of certainty for your white and grey spaces.



Data hall

Integrated lighting system that effectively lights both horizontal and vertical planes to help optimise Data Centre operation and maintenance.

Administration areas

Compliance with EN 12464 for all workspace areas, with comfort and visual clarity at the forefront of design.

Outdoor

Enhancing the building's architecture with light while supporting safety and security.

Rooftop services

Robust, weatherproof lighting that supports safe maintenance.

Operational support areas

Functional lighting solutions to support the core operation of the facility.

Indoor and outdoor lighting solutions for every environment

As part of the Fagerhult Group, Veko combines local expertise with the strength of a global lighting leader to deliver consistent, future-ready solutions across every application.



Administration areas

Lighting that supports clear, comfortable and compliant workplaces, meeting rooms and circulation spaces. Designed to enhance user comfort and deliver consistent visual quality across all administrative environments.



Operational support areas

Robust, efficient solutions for back-of-house zones, plant rooms and service areas. Engineered for reliability, ease of maintenance and safe performance in the functional spaces that underpin day-to-day operation.



Outdoor

High-quality exterior lighting that balances safety, comfort and environmental protection. Systems designed to provide compliant illumination while minimising light spill and respecting surrounding communities and the night sky.

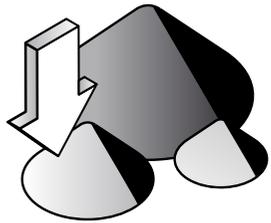


Rooftop services

Durable, weather-resistant lighting built for exposed rooftop environments. Solutions that support safe access and maintenance of critical building services, delivering dependable performance in demanding conditions.

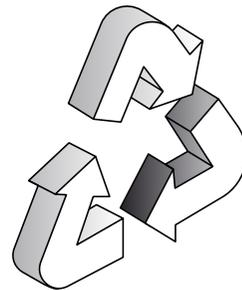
Sustainable by design, for today and tomorrow

Our lighting system is built to perform now and protect resources for the future – engineered for energy efficiency, material circularity and long-term value that supports your ESG goals.



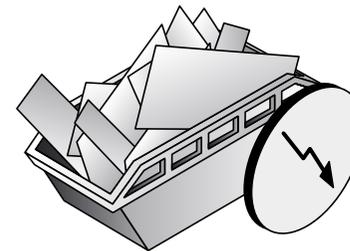
Reduce material content

We don't add materials you don't need. Our system is configurable with 7, 10 or 13 conductors, so you only get what your project requires. Whether you're looking to future-proof or minimise material use, we deliver a solution that's **efficient by design**.



Reduce virgin material usage

The aluminium body is made from **over 70% recycled content**, significantly reducing embodied carbon compared to virgin-material alternatives and ready to recycle when the time comes.



Reduce material waste

Delivered pre-assembled, our solution reduces on-site time and arrives with **minimal packaging** – no excessive wrap, no unnecessary waste. Just ready-to-lift, ready-to-fit modules that make installation cleaner, faster, and more sustainable.



Choose partners who go further

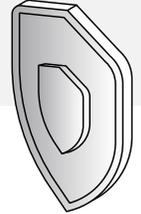
We've joined the **Science Based Targets initiative (SBTi)** to back our sustainability ambitions with globally recognised standards. For you, it means confidence that every solution we deliver **supports your carbon goals, aligns with your values, and strengthens your own sustainability credentials**.

Lighting controls to suit every need

From standalone presence detection to advanced system-wide integration, our scalable controls are easy to integrate, simple to manage, and built to support energy efficiency, compliance and operational resilience from day one.

All our connected systems meet ISO 27001 and EU RED Directive standards – ensuring robust cybersecurity, data integrity and reliable wireless performance from day one.

 [Find out more here](#)



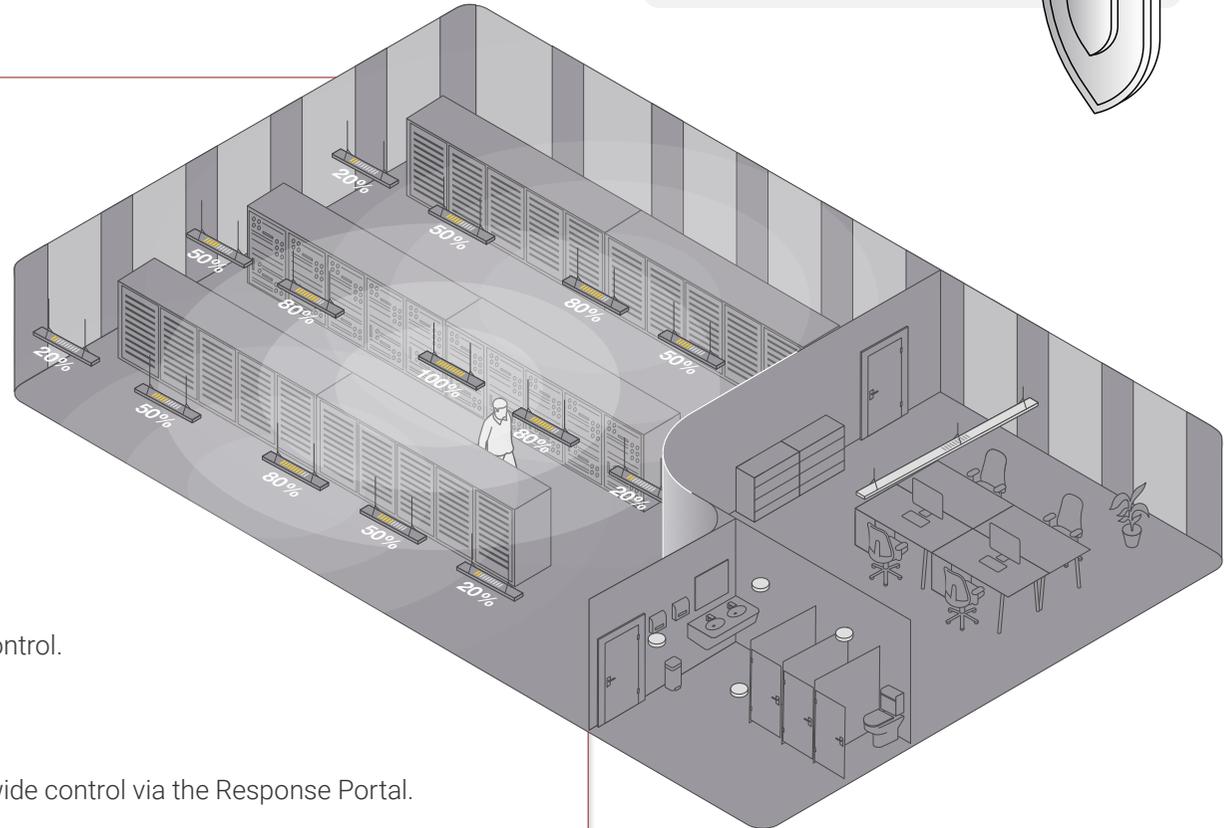
Organic Response®

Wireless controls

Installation and commissioning	<input checked="" type="checkbox"/>				
Energy-saving	<input checked="" type="checkbox"/>				
Flexibility and future-proofing	<input checked="" type="checkbox"/>				

Organic Response works straight out of the box with instant energy savings. With simple app access and optional cloud integration, it scales from room-level efficiency to full estate insight.

- Up to 40% energy savings from day one.
- Simple app setup for setback lighting and timed presence control.
- Centralised emergency testing and reporting.
- Seamless BMS integration for HVAC, blinds and security.
- Real-time energy insight, compliance support and building-wide control via the Response Portal.

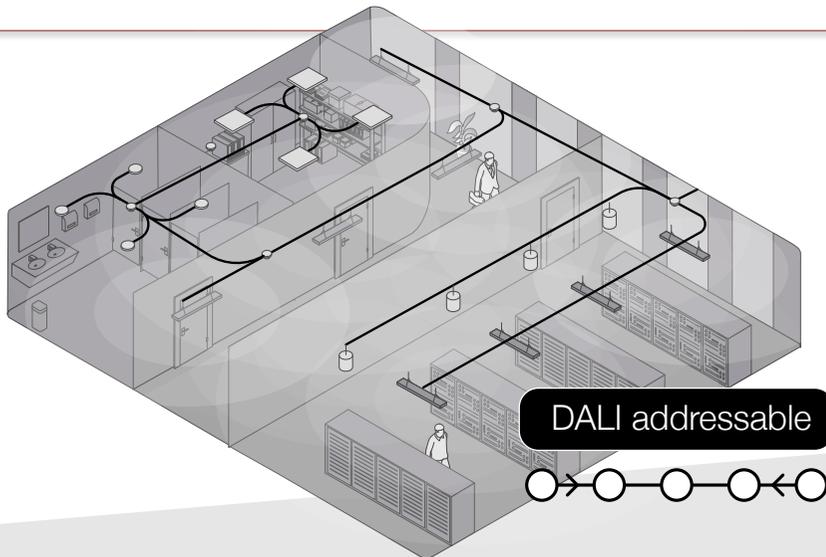


DALI-2 wired

Installation and commissioning	✓	✓	✓	✓	✓
Energy-saving	✓	✓	✓	✓	✓
Flexibility and future-proofing	✓	✓	✓	✓	✓

Open-protocol detector designed for seamless integration with compatible systems, using pre-installed Light Line cabling for simple, plug-and-play connection.

- Two-way communication with head-end control software.
- Automated emergency testing and digital reporting.
- Central status monitoring to support maintenance and energy logging.
- Scene setting to optimise user comfort, building operation and energy.

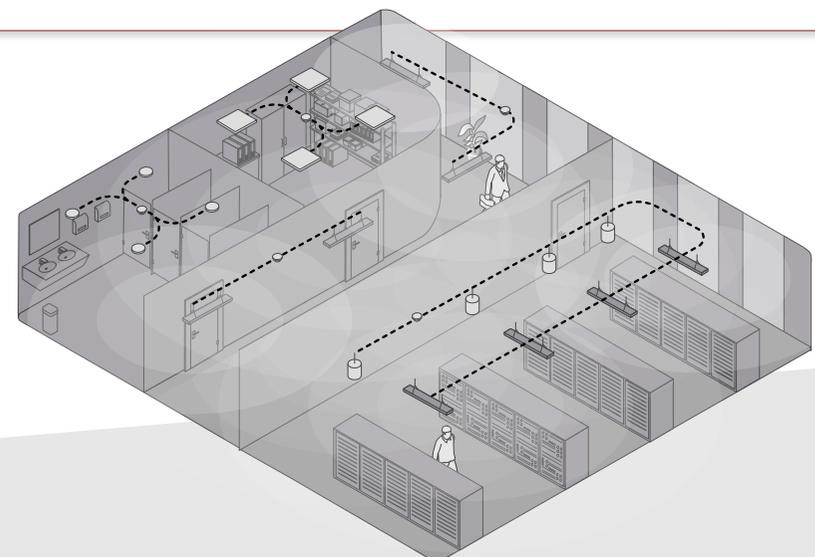


Standalone detectors

Installation and commissioning	✓	✓	✓	✓	✓
Energy-saving	✓	✓	✓	✓	✓
Flexibility and future-proofing	✓	✓	✓	✓	✓

This wired, standalone control option uses discrete sensors that clip directly onto the Light Line profile. Once connected to power, each sensor functions immediately, managing local groups of luminaires without extra cabling.

- Presence/absence detection – lights on when someone enters, off when empty.
- Daylight dimming – save energy by balancing natural light.
- Scene setting – low-level setback for periods of low occupancy or to maintain background security lighting.
- Fast commissioning via setup app.
- IP54 rated – dust and splash resistant.



Emergency lighting

Open area and escape route lighting



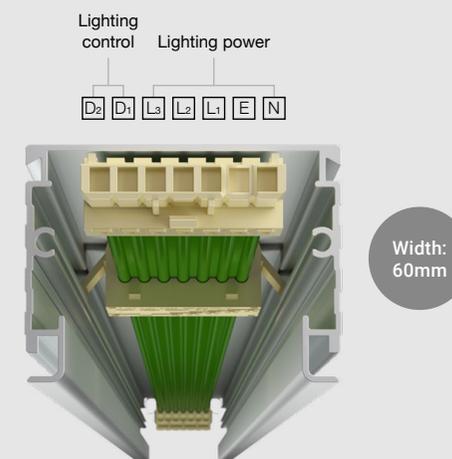
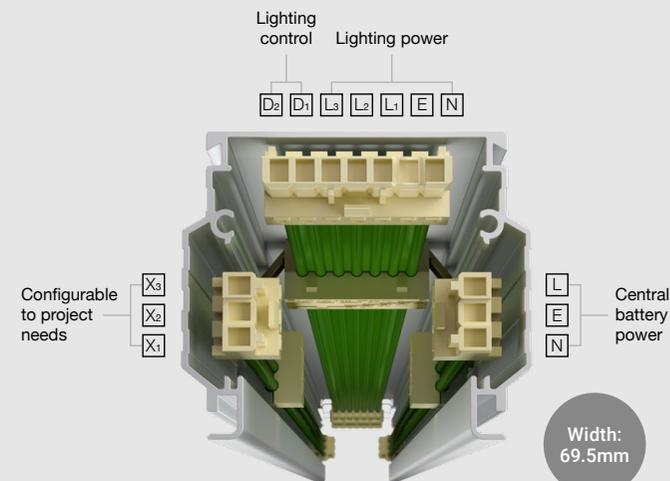
Our emergency and escape route lighting can be **light line, wall or ceiling mounted** to suit any layout. Combined with Leon modules within the Light Line system, escape routes are clearly illuminated for safe evacuation and compliance with emergency lighting standards.

Option 1 De-centralized emergency lighting

- Integrated battery/conversion module
- Up to 750 lm
- Colour temperature: 4000K
- Simple maintenance – replace or test individual units with ease.
- Independent operation
- Remote monitoring and simplified maintenance (DALI)

Option 2 Centralized emergency lighting

- Simple maintenance – replace or test individual units with ease.
- Colour temperature: 4000K
- Up to 1100 lm
- Single power source serving multiple luminaires via trunking.
- Remote monitoring and simplified maintenance.
- Higher emergency light levels achievable for large or critical areas.



7, 10 and 13 core Light Line trunking

Available in 7, 10 and 13 core configurations to support power, control and emergency circuits within a single modular system. Pre-wired for fast installation and flexible project design.

Standard Veko Light Line range – IP50 4000K

Lumens	Wattage	Unit	DALI driver			DALI driver and self-contained emergency			DALI driver and central battery emergency		
			Organic Response	DALI-2	Standalone	Organic Response	DALI-2	Standalone	Organic Response	DALI-2	Standalone
5500 lm	29.5W	Hilde Oval	•	•	•	•	•	•	•	•	•
11500 lm	73W	Magnus Diffuse	•	•	•	•	•	•	•	•	•
3000 lm	16W	Hilde Oval	•	•	•	•	•	•	•	•	•
3000 lm	19W	Magnus Diffuse	•	•	•	•	•	•	•	•	•

4.59m Light Line with central infill



3.06m Light Line



4.59m Light Line with central luminaire

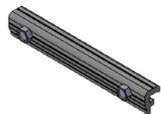


1.53m Light Line

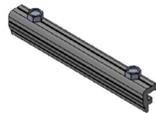


- Light Line's modular system allows you to combine different lengths, infills and lumen packages to create the exact trunking configuration your project needs.
- The lengths and lumen packages in the table above have been defined for typical range of data hall aisles and circulation areas.
- Our design and production facilities allow for customised lengths (up to 6m), lumen outputs (up to 20,000 lm) and optical configurations to match project requirements. For bespoke specifications, contact sales.

Light Line accessories



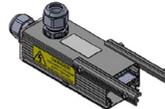
Coupler kit
– side fix (pair)



Coupler kit –
top fix (pair)



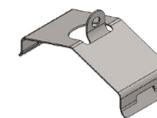
End power
feed 7 core



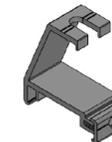
End power feed
10 or 13 core



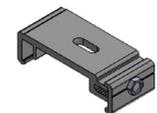
Centre-feed unit
7, 10 or 13 core



Wire suspension
bracket – clip-on



Rod-suspension
bracket



Surface-suspension
bracket

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