GENLYTE
SOLUTIONS
a (S)ignify business

Our commitment beyond lighting your way

Be in control with Genlyte Solutions to meet **your data center goals**.

Making data centers work for you

The world is more digital than ever before, and the digital transformation continues to spread. While this provides immeasurable benefits for today's demanding society, it creates tough challenges for data centers.

We're here to help. Lighting & controls offerings for data centers by Genlyte Solutions, a Signify Business offers far more than illumination. We offer a combination of luminaires and integrated and connected sensors with hardware and software so that data centers can boost energy savings, reach sustainability targets, and improve efficient productivity.

ANSI/TIA-942 STANDARD

TIA-942-A provides guidance for lighting locations and 3 level controls in a data centers.

https://tiaonline.org/products-and-services/
tia942certification/ansi-tia-942-standard/

~35 GW

Est. 2030 data center power consumption by providers/enterprises

https://www.mckinsey.com/industries/technology-media-
and-telecommunications/our-insights/investing-in-the-
rising-data-center-economy

Increasing demand	Workforce challenges	Energy cost and resource scarcity
Uptime and expansion	**Staff comfort and wellbeing**	**Sustainable and cost-efficient operation**

Navigating challenges in the data center industry

The complete data center product portfolio

LED lighting is recommended for new construction and energy retrofit data center projects to meet data center standards and achieve the most energy efficient solution. LED smart control systems can further reduce energy costs illuminating only when and where needed.

Genlyte Solutions offers best-in class and centrally controlled illumination for the entire data center both interior and exterior spaces to achieve an optimized work environment and improve operational efficiency and security.

The right light when and where it is needed

Data Halls

LED luminaires with controls available in strip, industrial and wraparound versions suitable for damp locations meeting new server room standards for vertical illumination of racks.

Offices & Control Rooms

LED luminaires with controls available in recessed, suspended, and surface mount configurations offering circadian lighting benefits to occupants with high visual comfort and efficiency.

Back of House

LED luminaires with advanced controls are available in recessed, suspended, and surface-mount configurations. These fixtures are field-tunable, energy-efficient, and simple to install.
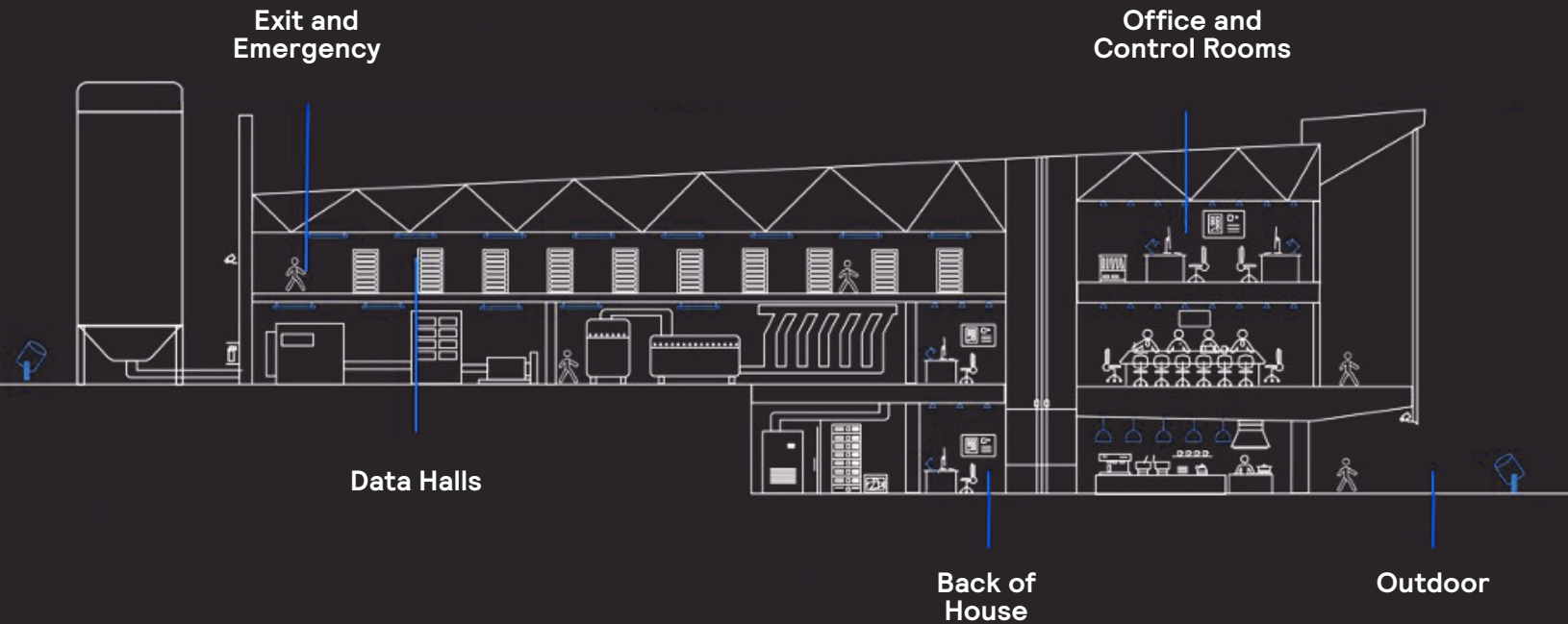
Exit & Emergency

Code-compliant exit and emergency lights guide secure evacuation during power outages or emergencies, ensuring quick, secure exits and preventing hazards in critical facilities.

Outdoor

Genlyte site lighting ensures safe parking and access with high-performance luminaires, control options for asset management, and integrated solar solutions for efficiency.

The complete data center product portfolio

Exit and Emergency

Office and Control Rooms

Data Halls

Back of House

Outdoor

Click > to view our online portfolio

General purpose linear >	Recessed and surface >	Exit and Emergency >	Industrial >

Site and area >	Solar >

Genlyte Solutions brands

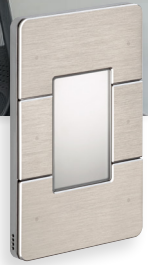| Indoor	Outdoor	Connected Lighting Systems & Controls	LED Lamps & Electronics
ALKCO	LUMEC	interact by signify	PHILIPS
LIGHTOLIER	HADCO	PHILIPS dynalite	ADVANCE
LEDALITE	GARDCO		
CHLORIDE	COLOR KINETICS		
Day-Brite CFI	Stonco KEENE		

interact
by Signify

Interact is a smart, wireless lighting system ideal for retrofits and low-complexity renovations. Featuring luminaire-integrated controls and wireless connectivity, it is perfect for LED upgrades and areas with higher utility rates, designed for ESCOs, installers, and facility managers.

PHILIPS
dynalite

Philips Dynalite provides a versatile solution for new construction or renovation projects. It features ceiling-based conventional controls, utilizes wired connectivity, and is ideal for markets where wired systems dominate, targeting specifiers and system integrators.

Gateway + IoT

IoT Cloud System

Access to IoT features and data insights such as occupancy patterns and space utilization

Gateway

Connected Cloud

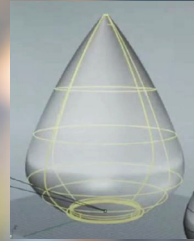Add a gateway to Foundation to visualize energy savings and manage lighting assets

Standalone

Connectable Lighting System

Standalone deployments without any IT or gateways

Why choose Philips Dynalite?

- Save up to 85% energy with occupancy and daylight sensor-based controls, and integration to HVAC, plug load and other sub-systems.
- Independent functionality with distributed intelligence and no single point of failure.
- Easily Integrate your lighting controls with HVAC, blinds and AV systems with a comprehensive range of devices.
- Flexibility around multiple dimming protocols; Be it DALI, 0-10V, DMX, relay or phase dimming.
- Deploy as standalone controls or network multiple locations together for central monitoring and management.
- Choose design options from the award winning Antumbra user interfaces for chic look and feel.

Positively influence your data center's

Take custom-fit to the next level by creating your own design.

Forging the cutting edge

Genlyte Solutions is transforming the lighting industry with revolutionary 3D printing technology, offering customizable solutions for environments like hospitality, retail, and offices while promoting sustainability. With an intuitive online configurator, you can design decorative or functional lighting that fits your brand, selecting shape, size, texture, output, and optics to create unique fixtures that stand out.

With 3D-printed luminaires, customize your design with options like shape, pattern, color, and size to fit your needs.

Our 3D printing process reduces manufacturing time from months to weeks, speeding up development to installation.

U.S.-based manufacturing ensures faster delivery, while polycarbonate materials can be reused 5-7 times after their lifespan.

Genlyte delivers durable, high-impact, energy-efficient lighting solutions with innovative, quality materials for any application.

future with more innovations.

Circadian Lighting Solutions

Light has impact beyond the visual aspect

We are the indoor generation, spending over 90% of our time indoors, including 36% at work. This reduces our exposure to the benefits of natural daylight.

Light supports vision, enhances performance, and boosts emotional well-being. These elements are vital for well-being and form the basis of circadian lighting.
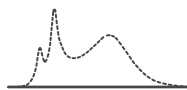
Benefits of melanopic light

Melanopic light plays a major role in synchronizing the internal body clock with non-visual effects of light. When you properly design melanopic lighting in your building, it can bring the benefits of natural daylight indoors, supporting visual comfort, well-being and performance. Melanopic light has a direct relationship with:

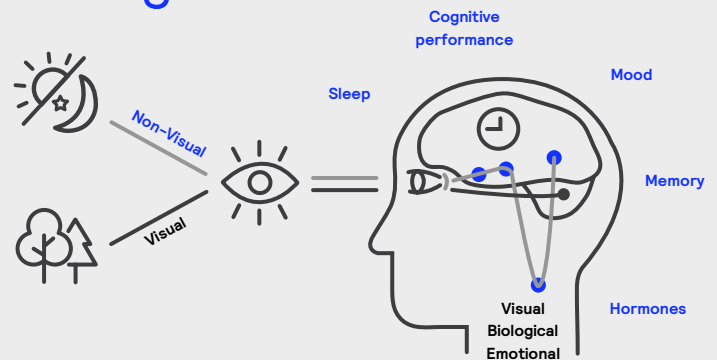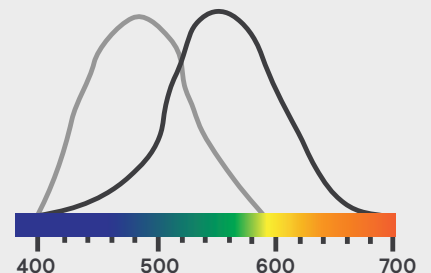| Daytime engagement	Sleep-wake cycle (circadian rhythm)	Light spectrum

Non-visual aspects of light

Spectral Sensitivity

Visual system ●
Non-visual system ●

Wavelength (nm)

Source: Schlangen, L.J.M., & van der Zande, B. M. (2022). The power of healthy daytime lighting in indoor settings: melanopic lighting advances and office applications (Version 1). Zenodo. https://doi.org/10.5281/zenodo.7362816

The sustainable path to savings, control, comfort, and more

10%
of the world's energy consumption is by data centers

https://www.aurecongroup.com/thinking/thinking-papers/data-centres-the-worlds-greatest-energy-guzzlers

10–50x
data center energy consumption per floor space compared to a typical commercial office building

https://www.energy.gov/eere/buildings/4data-centers-and-servers

Score Utility 2
through DLC and code compliance

Genlyte Controls solutions for your adaptable needs

Rely on insights and alerts from real-time analytics in the Interact dashboard to improve sustainability and efficiencies.

25x
Longer lifespan
LED lasts longer than traditional light sources

https://www.bulbguylighting.com/2018/04/3-reasons-led-lighting

38%
of illumination-based savings come from controls

Make the connection

Genlyte Solutions is uniquely positioned to provide the expertise and solutions for your distinct lighting goals and beyond. Take the first step by contacting your local Signify Sales Representative to discuss innovation that matters to you.

Standardization through National Accounts	Lighting Application Services
• Specification for full line of indoor and outdoor products • Single point of contact for account • Standardized program pricing	• In-house quotation and design team offers swift proposal execution • Lighting design validation and consistent delivery
Connected Solutions	**Customized Offerings**
• Dedicated account management expertise • Full wired and wireless scalable portfolios • Ongoing services for long-term system optimization including asset and software management	• Minor modifications to standard products (2-day SLA) • Major modifications to existing products (5-day SLA) • Custom product R&D, designed & built to customer specifications

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