

Install wireless open-protocol Bluetooth lighting control without additional wiring or excessive commission costs



Free your next project from the pricey commissioning fees that make facility managers shake in their shoes.

So simple to use and easy to install, Amerlux's open-protocol Bluetooth lighting control connects your lighting and other non-proprietary Bluetooth-enabled devices under a single wireless network without additional wiring.

Adding a new light and any open-protocol device—HVAC, security and automated blind control included, regardless of their manufacturer—has never been simpler. Just open your app to commission, not your budget. Take the guesswork out of wireless controls and finally install a secure, reliable lighting control that's easy to use and love.



Connect an entire space, floor or building with total harmony. Amerlux's open-protocol Bluetooth drivers, sensors and app provide simple, scalable, wireless lighting control from a single device. No need to run additional wiring and conduit through multiple walls and ceilings. Always select the most optimal lighting component on hand, no matter the manufacturer. Ensure continuous compatibility and connectivity under a single open-protocol Bluetooth lighting network.

[Bluetooth - Amerlux - Commercial Interior Lighting Products](#)

[Let's Get Started](#)

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Market Observer

1. Elon Musk's Terafab Will Be Earth's Most Valuable Building, 50x the Size of the Pentagon by Phil Haunhorst - Elon Musk announced Terafab, a Texas chip factory that Tesla and SpaceX will build together. The comparisons landed as Tesla-SpaceX merger speculation intensifies. The planned semiconductor plant for artificial intelligence and robotics is expected to become the largest building in the world at more than 100 million square feet and will be built in Grimes, Texas, outside of Houston. Terafab will build chips for Tesla's Optimus humanoid robots and Full Self-Driving software. It will also produce space-hardened chips for SpaceX satellites and orbital data centers tied to xAI, Musk's artificial intelligence venture. The project promises at least 3,000 local jobs. Musk said Terafab Texas would become the most valuable building on Earth by far. Tesla and SpaceX plan to invest \$16.8 billion to start construction. Total spending could reach \$119 billion across multiple phases, according to regulatory filings reported this week. Terafab Texas will be the largest and most valuable building on Earth by far. And it will be stunningly beautiful says Musk. [Elon Musk's Terafab Will Be Earth's Most Valuable Building, 50x the Size of the Pentagon](#) VIDEO: <https://twitter.com/i/status/2085377974396752305>

2. The AI Boom Is Transforming the American Economy Beyond Recognition by Justin Lahart - AI has rapidly become a huge economic factor while affecting everything from capital investment to how much you pay for an iPhone. The U.S. economy keeps putting more eggs in the artificial-intelligence basket. Oxford's Michael Pearce estimates that AI investment alone has been behind nearly a quarter of the growth in gross domestic product recently. The AI-boosted stock market is the other big source of support. In the first quarter, U.S. household net worth reached \$174 trillion, according to the Federal Reserve, an increase of \$13 trillion from a year earlier that was mostly due to stock gains. Since then, the broad S&P 1500 index has risen by about 15%, so net worth is likely trillions of dollars higher now. Those gains have been driven in large part by enthusiasm for AI. When people's net worth increases, they spend more freely. Estimates of these wealth effects vary, but economists generally think that for every dollar in stock-market wealth gained, people spend a few cents more. [The AI Boom Is Transforming the American Economy Beyond Recognition - WSJ](#)

3. Why Higher Tariffs Are Becoming the New Normal for Business by John Keilman - Many business leaders are getting used to the idea of higher tariffs—and tariff fluctuations—as a new normal that will stick around even after Trump leaves office in January 2029. The highest effective rate—the amount of tariffs collected divided by the total value of imports—was 3% in Trump's first term. During Trump's second term, however, the effective rate topped out at close to 11% before dropping to around 7%. That has led some companies to make major changes to their supply chains that they are unlikely to reverse. Foreign auto-makers are among the companies most affected by tariffs, and some have responded by announcing plans to expand their U.S. manufacturing. Import duties generate between \$20 billion and \$30 billion for the U.S. Treasury every month, and that money could be hard for any president to forgo said John Iselin. [Trump Tariffs Could Become Permanent as Revenue Hits \\$20 Billion-\\$30 billion a Month - WSJ](#)

4. NEMA Urges Expansion of Aluminum Tariff Incentives - New tariff incentives that reduce aluminum tariffs from 50% to 25% for companies committing to investing in US aluminum production are designed to spur domestic investment. NEMA, which previously called for tariff incentives, supports the action and is calling for similar moves to expand the program to include electrical steel, spurring further investments in US smelting and manufacturing. NEMA Senior Director for Global Policy Patrick Lozada said there's "an opportunity to expand on the approach that they're taking with aluminum," adding that relief for critical inputs would help manufacturers. [New aluminum incentives draw industry praise, leave questions about impact | InsideTrade.com](#)

5. Divided Fed Holds Rates as Three Dissent - The Federal Open Market Committee voted 9-3 Wednesday to keep its benchmark rate at 3.5% to 3.75%, with three members dissenting in favor of an increase over inflation concerns. The split vote drew immediate attention because of what it revealed about the central bank under its new leadership. Reuters characterized the decision as a "hawkish hold" -- a pause that leaves the door open to increases at future meetings. Markets reacted sharply. The decision sent bond yields higher and stocks lower before a partial rebound. Investors who had hoped the meeting would clarify the direction of policy under Chair Kevin Warsh came away without a clear answer, and some warned, per Reuters, that mixed messages on rates could unsettle both stocks and bonds in the months ahead. [Divided Fed Holds Rates as Three Dissent - The Morning Brief](#)

6. Light + Intelligent Building North America (Previously Lightfair) - Conference: March 15, 2027 Exhibition: March 16—18, 2027 - Las Vegas Convention Center, Central Hall, Las Vegas, Nevada USA Lighting is doing more than illuminating spaces, it's helping buildings work smarter. Today's connected lighting systems integrate with occupancy sensing, HVAC, security, analytics and building management platforms to improve energy performance, occupant comfort and day-to-day operations. They also generate valuable building data that helps facilities teams make more informed decisions. At [Light + Intelligent Building North America](#), discover the technologies and real-world solutions driving smarter buildings.

7. America's Electroindustry Supports 2.35 Million Jobs and More Than \$375 Billion for U.S. Economy - The U.S. electro-industry is playing an increasingly critical role in meeting rising electricity demand, strengthening the domestic industrial base, and powering America's future, according to new analysis from the National Electrical Manufacturers Association (NEMA). The new economic impact data show the U.S. electrical manufacturing industry, which has invested more than \$200 billion in domestic production since 2018, supports **2.35 million American jobs**, contributes more than **\$375 billion to U.S. economy annually**, representing 1% of total U.S. GDP. The analysis also finds that the electroindustry directly employs more than 590,000 workers nationwide who manufacture the technologies that power and protect America's homes, businesses, factories, hospitals, data centers, transportation systems, and the electric grid. Each direct job supports an additional three jobs elsewhere in the economy. With electricity demand expected to rise significantly in coming decades, continued investment in electrical equipment and systems will be critical to expanding energy capacity, strengthening grid reliability, and supporting long-term economic growth. [America's Electroindustry Supports 2.35 Million Jobs and More Than \\$375 Billion for U.S. Economy - NEMA](#)

8. DOE Site in Kentucky to be Revitalized with Data Center Campus - A coalition of energy, infrastructure and utility companies announced a strategic partnership to develop a data center campus at the U.S. Department of Energy's (DOE) Paducah Site in Western Kentucky. The \$100 billion privately funded project repurposes land at the former enrichment site into a hub for innovation and energy generation. Once fully constructed in 2032, the campus will support up to 1.8 gigawatts (GW) of utility capacity and over 1.2 GW of compute capacity — backed by up to 4.6 GW of dedicated generation resources paid for and built specifically for the project, protecting customers from costs and fulfilling President Trump's Ratepayer Protection Pledge. The partnership coalition includes Brookfield, NextEra Energy, Big Rivers Electric Power Corporation, Jackson Purchase Energy Cooperative and Paducah Power System. [DOE Site in Kentucky to be Revitalized with Data Center Campus – tEDmag](#)

9. Signify and NXTPLAY Capital Partner to Build the Future of Sport and Entertainment - As Official Lighting and Innovation Partner, Signify joins the NXTPLAY ecosystem to help shape the next generation of sports and entertainment experiences while unlocking operational and energy-efficiency gains for clubs as well as enhancing performance and well-being for athletes. Together, Signify and NXTPLAY Capital will deploy innovative lighting solutions across NXTPLAY's sports and entertainment assets, transforming venues into immersive destinations that deliver greater value for clubs, supporters, and brands alike. Beyond lighting infrastructure, the collaboration will elevate connected fan experiences powered by Philips Hue, a Signify brand, enabling immersive sports entertainment through dynamic, synchronized lighting that extends the excitement of matchday beyond the stadium and into fans' homes. By syncing lights with live broadcasts, Philips Hue allows supporters to experience every action, celebration and key moment in a more engaging and immersive way. [\[News\] Signify and NXTPLAY Capital Partner to Build the Future of Sport and Entertainment - LEDinside](#)

10. SpaceX Plans to Power \$16.8B Terafab Without the Grid by Shane Snider - SpaceX plans to power its massive Terafab semiconductor and advanced-computing campus in Grimes County, Texas, with onsite generation and battery storage rather than electricity from the grid, according to a fully executed tax-abatement agreement with the county. The agreement states that the facilities, once operational, "are expected to be powered by electricity generated by on-site power plant(s) and are not expected to use electricity from the grid." SpaceX plans to build natural gas-fired power plants and large battery arrays. [SpaceX Plans to Power \\$16.8B Terafab Without the Grid](#)

11. ABC: Every State Had a Construction Unemployment Rate Below 10% in June - The national June not seasonally adjusted construction unemployment rate was 4.7%, a 1.3% increase from June 2025, according to a [state-by-state analysis](#) of U.S. Bureau of Labor Statistics data released today by [Associated Builders and Contractors](#). The analysis found that every state had a construction unemployment rate below 10% and all but three states (Connecticut, New Jersey and Rhode Island) had a rate below 7%. ABC: Every State Had a Construction Unemployment Rate Below 10% in June

12. Solar, Batteries Dominate New US Power Plants in H1 - Solar has dominated a surge in utility-scale projects between January and June, according to data from the Energy Information Administration. Of the 368 utility-scale power plants added in the first half of the year, 207 were solar projects with a combined 11,458 megawatts of capacity across 207 projects. Batteries followed with 8,207 megawatts from 95 projects. However, the largest new projects were the SunZia Wind farms in New Mexico. [So Much Solar: Digging Into the List of Every US Power Plant That Went Online This Year - Inside Climate News](#)

13. U.S. Battery Storage Capacity Grows 70% Annually Over the Past Three Years by Ryan Kennedy - National operational storage reached 52 GW in June 2026, with developers planning another 54 GW of capacity through 2028, according to the latest EIA data. Looking ahead, project developers report plans to bring another 54 GW of battery storage online over the next two and a half years. The planned pipeline includes 14 GW scheduled for the second half of 2026, 26 GW scheduled for 2027, and 14 GW scheduled for 2028. Total national operational storage capacity is expected to pass 105 GW by the end of 2028. Solar photovoltaic (PV) facilities host the largest battery storage units on the U.S. grid. Storage expansion is following solar additions regionally. [U.S. battery storage capacity grows 70% annually over the past three years - pv magazine USA](#)

14. Duke Energy Lays Out New Energy Plan for the Carolinas - South Carolina is one of the fastest-growing states in the nation, attracting new residents, major employers, and billions of dollars in economic investment. Meeting the state's energy needs requires a reliable energy system that can support thriving communities while keeping costs as low as possible for customers. The latest plan for South Carolina advances new generation, new energy storage and renewables opportunities, evaluates future nuclear generation options, maximizes energy efficiency and maintains flexibility to adapt as customer needs, technology and market conditions evolve. To explore more details of the Carolinas Resource Plan, visit duke-energy.com/CarolinasResource-Plan. [Duke Energy Lays Out New Energy Plan for the Carolinas](#)

15. Texas and Arkansas DOTs Recognize NEMA's Make It America - The TxDOT and ARDOT have become the first state DOTs to recognize [NEMA's Make It American® program](#) as an industry resource, an important step toward giving manufacturers, contractors, and public agencies a clearer and more consistent way to navigate domestic-content requirements. The Build America, Buy America Act established domestic content requirements for federally funded infrastructure projects, aimed at strengthening U.S. manufacturing and expanding the use of domestic products. In practice, though, manufacturers, contractors, and project owners often face significant complexity in determining whether products qualify, assembling the right documentation, and demonstrating compliance consistently across different projects and agencies. Make It American was built to make that process easier. With federal recognition, bipartisan support in Congress, and now leadership from Texas and Arkansas, NEMA's Make It American program is increasingly becoming part of that solution. [Texas and Arkansas DOTs Recognize NEMA's Make It American – tEDmag](#)

16. NVIDIA, Financial Partners Target \$500B for AI Infrastructure - NVIDIA recently announced strategic partnerships to establish independent compute financing platforms with Apollo, BlackRock, Blackstone, Brookfield, Goldman Sachs, and KKR to mobilize over \$500 billion of third-party capital for the buildout of AI infrastructure over time. Demand for AI infrastructure continues to accelerate as countries, governments, enterprises and startups look to drive innovation, economic growth and societal benefits. NVIDIA compute is an investable asset — one which provides the lowest token cost, highest revenue and longest life along with a rich ecosystem of offtakers built upon NVIDIA's CUDA platform. Memoranda of understanding signed with six of the world's premier financial institutions to create these partnerships aim to establish the first compute financing platforms of their kind at global scale to enable the AI infrastructure buildout across NVIDIA's ecosystem. [NVIDIA, Financial Partners Target \\$500B for AI Infrastructure – tEDmag](#)

17. Hershey Begins Promoting Healthier Halloween Snacks - Ahead of the Halloween candy rush, the United States' largest chocolate maker is shifting some of its focus for trick-or-treat offerings to include popcorn, cheese puffs and pretzels. The snacks include brands such as SkinnyPop, Pirate's Booty and Lesser Evil, giving shoppers alternatives to traditional chocolate and candy. Americans spent \$7.4 billion on Halloween treats in 2024, according to the National Confectioners Association, with Halloween-related purchases accounting for about 18% of all U.S. confectionery retail sales that year. [Business News Today – tEDmag](#)

18. EV Drivers Love Their Cars by Rick Laezman - The market for electric vehicles may experience its ups and downs, but owner satisfaction remains unphased. In fact, it couldn't be much higher. According to the results of the ["2026 Annual EV Driver Survey"](#) released by the nonprofit Plug In America, "EV drivers love their vehicles. It covered such aspects as loyalty, consumer confidence, charging and the experience of purchasing or leasing. Overall, they point to a group of consumers that are extremely happy with the product they have acquired, with 94.3% of EV drivers saying that they are likely or very likely to acquire another EV for their next vehicle. This is great news for electrical contractors who install [EV charging infrastructure](#). [EV Drivers Love Their Cars - Electrical Contractor Magazine](#)

19. Amazon's Toaster-Shaped Robotaxis Are Hitting the Road by Ellie Davis

- The company is the first to charge for rides in its autonomous vehicle without a steering wheel, dashboard or pedals charging for rides across San Francisco and in Las Vegas. They can drive in either direction and hold up to four passengers who sit facing each other. Windows stretch across much of the sides. The vehicles are called Zoox and they come from a new entrant in robotaxis: Amazon.com AMZN. Amazon is betting it can become a major player in the growing robotaxi market, which Goldman Sachs expects to grow to nearly \$19 billion in sales by 2030, from \$376 million last year. It is a risky move. Alphabet's Waymo, the early leader with roughly 4,000 vehicles operating in various cities, and Tesla provide stiff competition. Amazon bought Zoox in 2020 for \$1.2 billion. [Amazon's Toaster-Shaped Zoox Robotaxis Hitting the Road in San Francisco and Las Vegas - WSJ](#)



20. **Siemens Announces More Than \$200 Million in U.S. Manufacturing Investments and 1,500 New Jobs** - Building on its recent milestone of more than \$1 billion invested in U.S. manufacturing over the past five years, Siemens announced a combined investment of over \$200 million in new manufacturing facilities in Pendergrass, GA, and Grand Prairie, TX, that will expand its U.S. electrical infrastructure manufacturing footprint and create more than 1,500 jobs. More than \$185 million of this investment is dedicated to a new 550,000-sq-ft manufacturing facility in Pendergrass, GA. The facility will produce critical low-voltage electrical infrastructure products and systems for the data center market, supporting America's growth in AI infrastructure and cloud computing. Concurrently, Siemens is developing a \$19 million Grand Prairie, TX, facility that will increase the capacity of its nearby flagship switchgear factory. [Siemens Announces More Than \\$200 Million in U.S. Manufacturing Investments and 1,500 New Jobs | Electrical Wholesaling](#)

21. **AI Infrastructure Pushes Data Center Capex Forecast Above \$3 Trillion by Nathan Eddy** - Worldwide data center capital spending is projected to surpass \$3 trillion by 2030 as hyperscalers, sovereign AI programs, and specialized cloud providers expand infrastructure to support growing AI workloads, according to a new report from Dell'Oro Group. The research firm said its 2030 capex outlook has nearly doubled since its January 2026 forecast, reflecting higher hyperscaler spending guidance, increased estimates for global data center power capacity, and rising commodity costs. However, the cost of accelerators alone does not reflect the full expense of AI infrastructure. Operators also need servers to host the chips, specialized networking for AI clusters, and storage to support training and inference. [Data Center Capex Forecast to Hit \\$3 Trillion](#)

Industry Resources

22. **EV Charging Infrastructure Map Highlights North America's Expanding Electrical Landscape** - As electric vehicle adoption continues to expand, the charging infrastructure behind it is becoming an increasingly important part of the electrical industry's workload. From utility upgrades and service equipment to branch circuits, load management, commissioning, and ongoing maintenance, electrical contractors, engineers, and facility managers are playing a central role in deploying and supporting EV charging systems. Public charging networks also continue to grow across North America, with new stations and higher-powered DC fast chargers coming online regularly to meet increasing demand. The following resource, originally published by Vehicle Service Pros, provides a reference map of more than 120,000 EV charging stations throughout North America. It can serve as a useful planning tool for electrical professionals involved in EV infrastructure projects, helping identify existing charging locations, regional deployment trends, and opportunities for future installations. [EV Charging Infrastructure Map Highlights North America's Expanding Electrical Landscape | EC&M](#) Download Your Copy [MapSearch EV Charging Station Map](#)



23. White Paper: Navigating the Journey to AI-Ready Buildings by Schneider Electric - This paper explores how AI systems can be implemented and operated in commercial buildings to address the significant challenges that facility managers and building owners face today and in the immediate future. It also considers the wide range of benefits and new opportunities presented by the adoption of AI-enabled technologies and platforms, as well as all the key requirements for implementing AI in commercial buildings and across real estate portfolios. [Navigating the Journey to AI-Ready Buildings | Buildings](#)

24. Updated DLC Qualified Products List Streamlines the Search of Rebate-Eligible Lighting by Jason Jeunnette - The DLC's enhancements to the SSL QPL now enable contractors to easily identify rebate-eligible products with precise control features. Just as LED technology turbo-charged lighting sector energy savings 15 years ago, controls are now poised to take lighting savings to a whole other level. A [2020 study](#) by DLC showed that adding networked controls to LED lighting projects can boost energy savings by an average of about 50% across various building types. Follow up [research in 2023](#) illustrated even greater savings opportunities through integration of lighting controls with HVAC – a practice the study showed could reduce a building's HVAC energy usage by 30% and potentially cut whole building energy consumption by up to 20%. The DLC's recently updated [Solid-State Lighting \(SSL\) Technical Requirements and Qualified Products List \(QPL\)](#) address one crucial barrier to wider controls adoption – the time and effort required to find luminaires that have integral controls capabilities tailored to specific project needs and can also earn valuable rebates and incentives. Finding listed products is simple — just create a free myDLC account. [Updated DLC Qualified Products List Streamlines the Search and Selection of Rebate-Eligible Lighting with Specific Controls Capabilities | EC&M](#)

25. Home Builders Institute: "Welcome to the Future Builders of America®" - HBI's job training focus begins early in a student's life. The organization believes that introducing students to the skilled trades in middle and high school is essential to building tomorrow's workforce, and over the last five years, HBI has introduced over 80,000 students to the industry through the Future Builders of America® program. From there, HBI supports or operates more than 600 training locations across the country, where experienced instructors prepare students for careers and connect them with employers in both the residential and commercial construction industries. As a national nonprofit with a proven model, decades of experience, and an established network across the country, HBI is well-positioned to scale their impact through thoughtful investments that transform lives while strengthening America's workforce. [Home - HBI](#)

Articles of Interest

26. The Age of Smart Light: How Digital Photonics Unlocks a New Wave of Innovation - Digital Photonics is at the core of ams OSRAM's strategy, describing the combination of pixelated light emitters and sensors with digital interfaces turning them into intelligent systems. Digital Photonics, as we understand it, is transforming the role of light - from pure illumination to an intelligent, versatile technology that connects, senses and interacts. By combining advanced pixelated emitters, optical sensors, and digital interfaces, light becomes the foundation of a new generation of smart, programmable systems. Driven by megatrends, such as AI, AR/VR or robotics, this transformation is opening entirely new possibilities – faster, more efficient and more intuitive. Compared to conventional electronics systems, which rely on the flow of electrons, photonics systems can be faster, more energy-efficient, more resistant to interference, and more precise. These are inherent advantages based on the physics of light. [\[News\] The Age of Smart Light: How Digital Photonics Unlocks a New Wave of Innovation - LEDinside](#)

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27. Larry Ellison Bet It All on the A.I. Boom. Will He Be the Face of the A.I. Bubble? - Inside the 81-year-old billionaire's risky, debt-fueled scramble to transform his data empire into an A.I. juggernaut. The president announced “the largest A.I. infrastructure project by far in history” and told the world that his friend Larry Ellison was just the man to get it done. “He’s sort of C.E.O. of everything,” Trump said. Ellison began by thanking Trump. “We certainly couldn’t do this without you,” he said. “It would simply be impossible.” He then proceeded to sketch out the ambitious plan. Ellison’s database software and cloud computing company, Oracle, and its partners — most prominently OpenAI — were going to invest as much as \$500 billion over the next four years into a group of sprawling data centers, 500,000 square feet each, that would produce 10 gigawatts of computing power, using enough energy to power as many as 10 million homes. It was called Project Stargate, after the 1994 sci-fi movie. The effort began in late 2022 when the launch of ChatGPT stunned the world and set in motion a race to master and control the most transformative new technology since the birth of the internet. Analysts began bidding up how much generative A.I. would add to the global economy: \$7 trillion [over 10 years](#), \$200 trillion [by 2030](#) and so on. [Larry Ellison Bet It All on the A.I. Boom. Will He Be the Face of the A.I. Bubble? - The New York Times](#)

28. Creating High-Performance Facilities Through Integration - High-performance facilities are no longer defined by individual systems operating efficiently in isolation; they are defined by how well those systems work together. In offices, healthcare, education, and data centers, integrated lighting, controls, and life safety systems are becoming the backbone of operational performance, safety, and sustainability. The U.S. Department of Energy notes that lighting typically accounts for around 15% of electricity use in commercial buildings, making it a key lever for optimization. The real transformation, however, comes when efficient luminaires, intelligent controls, and life safety assets form a connected ecosystem rather than separate projects. Integrated systems create an ecosystem in which LED lighting, lighting and HVAC controls, and life safety equipment (let’s not forget inverters) work together on a shared infrastructure. [Creating High-Performance Facilities Through Integration | Buildings](#)

29. Manufacturing Finds Opportunity as College Skepticism Grows by John Dorer - It’s nothing new. Manufacturers have been struggling for years to attract younger workers to the skilled trades—many of the roles that keep plants functioning. In recent years, however, the broader conversation about this type of work is evolving..... Many young Americans share growing [skepticism of the traditional college path](#) as white-collar office jobs face increasing pressure. It’s a meaningful shift as the manufacturing industry continues to face a consistent labor gap. Recent data from the U.S. Bureau of Labor Statistics shows that there were roughly [438,000 open manufacturing jobs](#) in early 2026. Long-term projections show little relief, as it’s expected the sector [will need 3.8 million workers by 2033](#). But there may be a very important break in that chain, as a growing section of younger workers are questioning whether the traditional college path is right for them. Plant roles and skilled-trade careers can be presented not as fallbacks, but as stable and practical career options that offer real pay, advancement and long-term demand. [Manufacturing Finds Opportunity as College Skepticism Grows | Workforce Development | advancedmanufacturing.org](#)

30. Your First LED Retrofit Is Aging: How Facility Managers Can Prepare for the Next Replacement Cycle by Paul Chamberlain - What happens when your original LED retrofit reaches the end of its life? Your biggest challenge may not be finding the most energy-efficient system—it could be costs, complexity of replacement, serviceability. Key Highlights

- Understanding the replaceability and support status of existing LED components is essential to avoid unexpected costs during upgrades.
- Labor, downtime, and waste management often constitute significant project costs, requiring early evaluation and planning.
- Operational disruptions can be minimized through strategic scheduling, phased implementation, and coordination with building occupants.
- Sustainability now encompasses waste reduction, material management, and long-term asset stewardship, not just energy efficiency.
- Modular lighting systems offer future maintainability, allowing components to be renewed without full fixture replacement, reducing labor and waste.

[Your First LED Retrofit Is Aging: How Facility Managers Can Prepare for the Next Replacement Cycle | Buildings](#)

Monthly Feature

The Age of Smart Light: How Digital Photonics Unlocks a New Wave of Innovation - Digital Photonics is at the core of ams OSRAM's strategy, describing the combination of pixelated light emitters and sensors with digital interfaces turning them into intelligent systems. Digital Photonics, as we understand it, is transforming the role of light - from pure illumination to an intelligent, versatile technology that connects, senses and interacts. By combining advanced pixelated emitters, optical sensors, and digital interfaces, light becomes the foundation of a new generation of smart, programmable systems. Driven by megatrends, such as AI, AR/VR or robotics, this transformation is opening entirely new possibilities – faster, more efficient and more intuitive. Compared to conventional electronics systems, which rely on the flow of electrons, photonics systems can be faster, more energy-efficient, more resistant to interference, and more precise. These are inherent advantages based on the physics of light .

Growth drivers

- Artificial Intelligence
- AI Data Center Connectivity
- Smart Mobility
- AR/VR and Smart Glasses
- Digital Health
- Industrial Automation

I believe that we are today in the early stages of another photonics revolution, not only in the field of illumination, but also in other fast-growing domains: in communications, sensing, quantum computing, and AI. The technology for controlling, processing, and interpreting light signals is the foundation for exciting applications of the future, offering the promise of far-reaching changes in mobility, healthcare, digital connectivity, security, and industrial automation. Breakthroughs in technology such as microLEDs, enabling the creation of chip-scale arrays of pixelated emitters and receivers, are finding valuable new uses in applications for smart devices, robotics, data communications and more.

In this new revolution, digitally controllable and readable light is being translated into scalable, real-world solutions, enabled by system-level understanding and deep application expertise from across multiple industries. We call this new approach to the science of light “Digital Photonics”.

[The age of smart light: How Digital Photonics unlocks a new wave of innovation | ams OSRAM](#)
[ams OSRAM Company Image Film - YouTube](#)

