

Designing Healing Spaces

HEALTHCARE LIGHTING & SHADE SOLUTIONS

 **legrand®**

designed to be better.



Healthcare Solutions

Legrand is committed to designing innovative products and systems that you can trust. Through our extensive range of flexible lighting controls and motorized shades, we enable hospital lighting systems that improve patient satisfaction and outcomes while realizing energy and operational efficiencies.

We support healthy, modern and sustainable spaces. We understand integration of lighting controls with other components of a hospital

room, the local energy code, and regulatory complexity of hospital construction. We will partner with you to ensure no hassle start-ups of hospital lighting systems that keep projects on-time and on budget. So patients and their families can be safer and more comfortable. Caregivers and staff can be more effective. And facility managers and operations can be better supported today and tomorrow.



Lighting & Shade Solutions for Healthcare

PATIENT ROOMS

INPATIENT CARE AREAS

- Nursing Stations
- Recovery
- Centralized Support Spaces

AMBULATORY CARE AREAS

- Emergency Rooms
- Exam Rooms
- Consultations Spaces

DIAGNOSTIC AND TREATMENT AREAS

- Labs
- Imaging Spaces
- Operating Rooms

PUBLIC AREAS

- Lobbies
- Atriums
- Meeting Places
- Cafeterias

SUPPORT & ADMINISTRATION AREAS

- Reception
- Lounges
- Offices



Industry Leading Products for Healthcare



**Wattstopper Digital
Lighting Management**



**Touchless Automatic-On
Timer Based Controls**



**Advanced Architectural
Dimming Applications**



**Nurse Call Systems
Integration**



**Legrand Shading with
Automated Shade Controls**



**Patient-Centric Tunable White
& Intensity Controls**



**Digital Control Surfaces or
OR & PACU Applications**



Pillow Speaker Integration



**Third Party Patient
Integration Systems**



**Advanced BACnet IP
Applications & Integration**

Designs that Enhance Connections & First Impressions

Lobbies | Atriums | Meeting Rooms | Cafeterias

These spaces should be welcoming as people enter, and they should be accommodating and comfortable during waiting periods. No-hassle patient check-in. A safe, open environment. Internet and infotainment access. Tasty and healthy food. All designed to blend in seamlessly.



Tunable White Light Engine



Room Controller



Dual-Tech Occupancy Sensing



DLM Touchscreen



Shades & Shade Controls



Daylight Harvesting

AESTHETICS

A well-lit lobby area gives a positive first impression and is reflective of the patient experience. Lighting scenes should focus on radiating a welcoming, accommodating, and comfortable environment.

DAYLIGHT

Maximizing daylight in public spaces is critical to modern hospital design. A lighting control strategy can minimize energy consumption from electric lighting when daylight is present.

EFFICIENCY

Hospitals run 24/7 and public areas are spaces where energy savings methods can make an impact on the bottom line. Auto-on sensors allow for touchless control.

Design Your Lighting Controls to Meet Specific Patient Needs



Patient Rooms Come in all Shapes & Sizes

Patient rooms are a multi-functional space that needs to accommodate a multitude of tasks, activities, and people. From patients and families to nurses and providers, all with differing needs in the space, lighting controls become the bridge to creating a healing environment, and that improves outcomes.

Rooms can be specifically designed for patients exhibiting unpredictable and sometimes destructive behavior. Lighting for these spaces must provide maximum visibility, wayfinding, glare reduction, and the use of controls to support mental health and wellness. Tamper-proof light fixtures are recommended to ensure the safety and security of patients and staff.



Dimming Switch



Dual-Tech Occupancy Sensing



DLM Room Controller

Our Complete Lighting & Shade Solutions for Patient Rooms are Customizable to Meet All Standards of Care

Feeling Better Shouldn't Feel Like a Chore

Control

Providing patients with control over their environment with lighting control integration to bedside controls and shades promotes comfort and healing for the patient.

Control Panel that integrates Room Controllers, Network Bridges, Building Management Controls outside the patient room with a BACnet network



Flexibility

Designing for multiple zones in a patient room meets the needs of patients, families and caregivers and the varying activities associated with a hospital stay.

Quiet shade motor that operates at less than 44 dBA at 3ft range



Support

Varying light levels and color temperature based on time of day enables nurses and care providers to comfortably check on patients and read equipment at any time of day or night.

Human Centric Lighting: Diverse lighting controls designed for easy nurse tasks and examinations, non-intrusive late night check-ins, patient comfort and family time





Case Study:

Advanced integration Patient Rooms

Brigham & Women's Faulkner Hospital

HALE BUILDING FOR TRANSFORMATIVE MEDICINE

Boston, MA

BUILDING STATS:

The 14-story, 380,000 square feet (program space) state-of-the-art facility features an infusion suite, phlebotomy clinic, orthopedic and arthritis center, and integrated neurosciences center.

OBJECTIVES

- Provide access to natural light.
- Increasing energy and cost savings through daylight harvesting and time of day controls.
- Integrate controls system with other systems, such as the building management, shading system controls, & A/V systems via BACnet.
- Use adjustable lighting levels to create a specific ambiance for each space.

LEGRAND SOLUTION

- *Digital Lighting Management (DLM)*
- *Lighting Control and Automation Panel (LCAP) series*

These solutions were able to expand with the construction changes – from room, floor, to whole building – eliminating the need to recreate the lighting design, implement any additional hardware, or tear down cables.





Case Study:

Advanced integration Patient Rooms

Memorial Sloan Kettering Nassau

Uniondale, NY

BUILDING STATS:

The 2-floor, 140,000 square foot cancer center consists of clinical space and private rooms that deliver expert cancer care including chemotherapy, immunotherapy, and radiation therapy.

OBJECTIVES

- Light spaces using natural and soft quality.
- Add visual warmth with indirect lighting and using cove techniques as well as other architectural dimming applications.
- Integrate controls system with other systems, such as the building management, shading system controls, and nurse call systems.

LEGRAND SOLUTION

▪ Digital Lighting Management (DLM)

Legrand Digital Lighting Management (DLM) platform and components was installed to control lighting throughout the infusion, treatment, and procedure rooms. DLM was integrated into the nurse call system, as well as the tablet devices that were in patient rooms – providing control over shades, lighting, temperature, and nurse call.



Improve Patient Care with 24/7 Support for Nurses

Make nurses a top priority – so they can focus on their top priority: patients. That's why we have a range of solutions that help to support inpatient care areas – nursing stations, recovery areas, and centralized support spaces.



Third Party Patient Integration Systems



Nursing Station Lighting Controls



Dimming Switch for Patient Preference



Room-Building Integration



Room Controller



Human Centric Lighting

PERFORMANCE

Automated adjustments of light levels from daytime to nighttime that allows staff to maintain focus on the care of patients.

PRECISION

Clearly marked, zoned override switches and proper illumination for critical tasks, such as medication dispensing and vitals monitoring.

Support & Administrative Areas Set the Tone for a Positive Healing Environment

Lounges | Offices | Meeting Rooms



Scene Selection Switch



Dual-Tech Occupancy Sensing



Dimmer Switch



Room-Building Integration



Motorized Shading



Daylight Harvesting

ADAPTABLE

Areas should be flexible and open to encourage staff to socialize and support each other with the ability to match the color temperature to the function in the space.

DAYLIGHT

Support and administration areas should have access to daylight via windows and daylight sensors and automated shading solutions can assist in maximizing daylight and minimizing the dependence on electric light.

EFFICIENCY

Staff tend to come and go in support and administration areas, making them an ideal space to gain energy efficiency through occupancy sensors and zoned lighting scenes.

Automated Lighting Controls Let Medical Staff Focus on Real Emergencies



Lighting Controls in an ambulatory care environment need to support multi-use spaces, such as triage, treatment, and examinations, along with maintaining performance in a high patient volume, 24/7 facility.

CONSISTENCY

High-quality color tuning support staff identify a subtle difference in patient's coloring that allows for quick and accurate diagnosis.

FLEXIBILITY

Variable lighting levels, achieved via multi-level switching or continuous dimming, allow the flexibility to meet the requirements for the exam, task lighting, and ambient lighting.



INFECTION CONTROL

Utilizing automatic-on occupancy sensors to turn lights on in examination rooms assists in reducing the risk for infections – eliminating the need to touch.



Scene Selection Switch



Room Controller



Master Controls for Nursing Staff



Dual-Tech Occupancy Sensing

Quality of Light in Critical Diagnostic & Treatment Areas Assist in Accurate Diagnoses

Operating Rooms | Labs | Imaging Services



Scene Selection Switch



Human Centric Lighting & Color Temperature Controls



Dimmer Switch



Input & Output Controls for Integration with Medical Equipment

CONSISTENCY

Maintaining high-quality color tuning with lighting controls supports the work performed in labs and diagnostic areas.

CUSTOMIZATION

The ability to adapt the color temperature to accommodate the different procedures and preferences of providers improves the environment for staff and outcomes for patients.

FLEXIBILITY

Incorporate multiple zones & multi-level dimming to ensure the environment is prepared to meet the varying needs of diagnostic and treatment areas.



Optimizing Patient Care

Lighting design plays an important role in achieving and optimizing patient-centric care. Each space in your hospital & on your healthcare campus is an opportunity to boost patient and visitor comfort, foster quicker healing, and demonstrate good bedside manner.

Legrand offers a range of innovative, flexible solutions designed to meet doctor and patient needs and reduce operating costs at the same time. Our products can even make older facilities operate in a more sustainable manner while being easier and more cost-effective to maintain. Our campus-wide solution with energy monitoring, space tuning, and remote services keeps your healthcare facilities up-to-date.

Our electrical, lighting, and building management solutions help facilities adapt efficiently to future technology needs, regulatory changes, and healthcare regulations. Our shade and shade controls help incorporate natural light into the healing environment in a controlled manner. Our lighting and system controls integrate with hospital functions to provide a seamless patient experience.

Acoustic and visual elements contribute to the overall feel of a healthcare facility, which can subtly influence staff, patient, and visitor satisfaction. By incorporating the latest in lighting and shade controls into prominent spaces, your hospital can become the go-to place to heal.

**GET YOUR PROJECT
STARTED WITH LEGRAND**



BUILDING CONTROL SYSTEMS

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