Building Regulations 2021 Compliance Guide
Lighting Controls Requirements

The 2021 edition of the approved document outlines an important requirement that could result in a significant increase in hardware and installation costs. By using Lutron's lighting controls, it is possible to easily meet these requirements:

- Use high end trim to avoid spaces being over-illuminated (comply with clause 6.59)
- Where there is low traffic, incorporate absence detection for automatic shutoff.
- Where there is high traffic, incorporate presence detection for automatic shutoff.
- In shared spaces, incorporate timeclocks to turn lighting off after-hours.
- Where there are windows, incorporate a daylight sensor for automatic dimming.
- Use wireless controls and detectors for easy placement and flexible control.
- Use a lighting management system that can calculate and share the energy consumed by the lighting installation (comply with clause 6.61).

Lutron product capabilities to meet Part L requirements

Space Classification	Occupant Control	Daylight	Low Occupancy	High Occupancy
Shared Space **Example:** Open Office			 OR 	
Owned Space **Example:** Private Offices			 OR 	
Temporarily Owned Space **Example:** Meeting Room				
Occasionally Visited Space **Example:** Toilet			 OR 	
Unowned Space **Example:** Corridor			 OR 	
Managed Space **Example:** Restaurant	 OR 			

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Why Lutron?

Lutron is a global organisation committed to delivering value to its customers. We developed the first solid state dimmer. Today, we continue to develop innovative, energy-saving lighting control solutions that provide flexibility, ambiance, and comfort in residential and commercial applications.

The company offers:

- Proven technology: 2,500 active patents
- Upfront project service support
- After-sales support
- Reduced end-user callbacks
- Products designed and manufactured for reliability with 100% pre-shipment inspection
- Significant portfolio to cover all your project requirements: +15,000 SKUs

Why Invest in Lighting Controls?

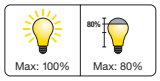
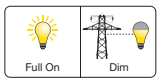
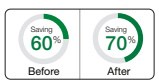
Occupant comfort — Increased productivity and well being

Meet demand — Lighting controls are growing in popularity to improve the aesthetics, functionality, and value of any space

Increase revenue — Lighting controls provide an additional revenue opportunity for the contractor

Comply with building regulations— Evolving rules are requiring stricter requirements for energy efficiency, while allowances are also being made for lighting controls

Energy-saving lighting control strategies

Strategy		Potential savings
	**Occupancy/vacancy sensing** turns lights on when occupants are in a space and off when they vacate the space.	20–60% Lighting*
	**Daylight harvesting** dims electric lights when daylight is available to light the space.	25–60% Lighting*
	**High-end trim** sets the maximum light level based on customer requirements in each space.	10–30% Lighting*
	**Personal dimming control** gives occupants the ability to adjust the light level.	10–20% Lighting*
	**Scheduling** provides pre-programmed changes in light levels based on time of day.	10–20% Lighting*
	**HVAC integration** controls heating, ventilation, and air conditioning systems through contact closure, or BACnet protocol.	5–15% HVAC*
	**Load shedding** automatically reduces lighting loads during peak electricity usage times. Go to lutron.com/references for more information.	30–50% Peak Period*
	**System Optimization Service** from Lutron identifies important lighting control adjustments to save additional energy and create a more productive work environment on an ongoing basis.	Variable

Please visit lutron.com/UKBuildingRegulations for more information, including videos and our online training courses.

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