

Free Guide: New Warehouse Shell Electrical & Lighting Pack

Specialists in microwave
sensor lighting systems

Contact

sales@ledlights4you.co.uk or call now on 0333 344 6084

TUNGSTEN
PROPERTIES

CANMOOR

Gazeley
a GLP  company



RecOllight
Recycling light

CHAS[®]
Accredited Contractor
CHAS.co.uk

This guide provides a professional overview of the electrical and lighting installation process for a new warehouse shell. It's designed to help you understand the key stages and considerations involved. This is for informational purposes and should not replace consultation with qualified electrical engineers and contractors.



Planning & Design

- Firstly, are you using racking? Determine the number of aisles – this will dictate your lighting plan and cabling requirements.
- Secondly, determine power requirements for machinery, lighting, forklifts, and future expansion.
- Consider load calculations and energy efficiency. Lighting is often your biggest energy user, so consider using microwave sensor LED lighting, which can utilise daylight harvesting.
- Emergency lighting: developers will provide exit lights; however, you will need additional emergency lights to comply with recommended BS 5266 guidelines.
- CCTV, security systems, and fire alarms are normally completed by specialists. However, you will require additional power points for these.

“ With our expertise, we strive to provide excellent value for money.” ”



Normally, the electrical service (three-phase power) and a distribution board will have been installed. Reception, staircase, and office lights (LED panels in a suspended ceiling) are supplied by the developer.

While there will be power sockets, these are minimal – so you may consider installing additional sockets. As mentioned, the emergency lighting for exits and staircases is also included.



Installation

LEDlights4you, with our dedicated team, will complete a commercial or factory warehouse shell install within 4–5 days, transforming a vacant warehouse into a fully operational facility. This will include all the necessary electrical testing.

Our expert team of qualified electricians and installers are well-versed with this type of operation, working to safety standards such as CHAS, NICEIC, and IPAF.

Remember, proper electrical installation is crucial for safety and operational efficiency. Consulting with experienced professionals is highly recommended throughout the entire process.





Microwave Sensor Lighting

As a qualified microwave lighting specialist, our engineers will design your lighting to give maximum efficiency. Microwave technology can save up to **60% on energy costs** by switching lights on and off automatically. The small additional cost is often recovered in just months.

Remote controls bring you instant control at the press of a button!

Our buying power enables us to source products directly from manufacturers, providing you with the opportunity to receive higher-quality lighting that lasts up to 20 years with minimal maintenance.



Self-Test Emergency Lighting

Self-test emergency lighting saves valuable staff time on regular monthly testing. This innovative technology ensures that all emergency lights carry out a 3-hour test every month – saving time and ensuring your company meets compliant safety standards.



Pricing

It couldn't be simpler. With over a decade of experience, a new warehouse shell cabling plan and lighting package can be costed online. Any additions, such as extra power sockets or forklift charger points, can be added in.

We provide:

- A full specification
- Energy usage forecast
- Fully installed package

Finance is also available, helping you spread the cost over 5 years or more.

To get an online quote, send us the building location, developer brochure, and racking plan to: sales@ledlights4you.co.uk or call now on **0333 344 6084**



Essential Documentation

Health and Safety documents are essential before and after installation. Detailed records of all installations include:

- Energy Saving Forecast
- Specification and Costs
- Risk Assessment & Method Statement
- Works Schedule
- DiaLUX Plans
- Schematics
- Electrical Testing Results
- Inspection Reports



Case Studies

OMG How Cheap – Whitham Essex

TUNGSTEN PROPERTIES

Size:	45,000 sq ft
Project Cost:	£32,000
Payback:	45 months
5-Year Saving:	£40,000
Carbon Saving:	89 tonnes



Comparison

Standard 200W LED high bays vs. LEDlights4you Smart LED

Issues

New warehouse buildings come without warehouse lighting, cabling, connection points, or emergency lighting. To commission the warehouse, you need a cable design and an approved NICEIC electrical contractor to certify the installation.

Solution

- LEDlights4you surveyed all three warehouses and marked lighting positions using DiaLUX plans and racking layouts.
- We used 150W LED high bay discs, allowing cabling in 1.5mm fireproof wire, within voltage and load specs.
- Emergency lighting key test points were installed.
- All lighting switches on automatically using smart microwave sensors that monitor occupancy and daylight.
- The lights last up to 100,000 hours and come with a 5-year warranty. We've installed these high bays for nearly 10 years.

ACI Express – Swindon, Wiltshire

CANMOOR

Size:	26,000 sq ft
Payback:	68 months
1-Year Saving:	£9,500
5-Year Saving:	£25,409
Carbon Saving:	14 tCO ₂ e



Comparison

Standard 200W LED high bays vs. LEDlights4you Smart LED

Issues

The customer wanted to utilise natural light with smart lighting to reduce energy use and maintain productivity. They also needed skilled electricians to install power points for alarm systems, fire alarms, offices, dispatch, and forklift chargers.

Solution

- We delivered a turnkey operation including cabling, Klik connection points, emergency lighting, office sockets, alarm and security power points, and forklift charger points.
- Installed 150W LED HBD smart lights with individual microwave sensors for 60% energy savings.
- Improved average LUX levels to 150 and reduced energy use by 64%.