

LET THERE BE LIGHT!

SUSTAINABLE LIGHTING FOR CO2 REDUCTION

→ LET'S BEGIN

24/7 SERVICE &
MAINTENANCE

HVAC
ELECTRICAL
PROJECTS

MECHANICAL &
ELECTRICAL OFF-SITE
FABRICATIONS



Engineering Today for a
Greener Tomorrow

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WHY LEDs?

Businesses aiming to diminish their carbon footprint and foster healthier workspaces have found a straightforward yet impactful solution: LED lighting.

Switching to LED (Light Emitting Diode) lighting not only notably decreases carbon emissions but also provides numerous advantages for employees.





LONGEVITY & DURABILITY

LED lights have a longer lifespan, typically lasting up to 3-5x longer than fluorescent light bulbs.

This extended lifespan means fewer replacements, resulting in less waste and reduced carbon emissions associated with manufacturing, transportation, and disposal of lighting products.



CARBON REDUCTION

LEDs emit minimal heat compared to other bulbs, reducing cooling costs in offices and energy consumption. This also lessens the load on HVAC systems, aiding in carbon reduction efforts.



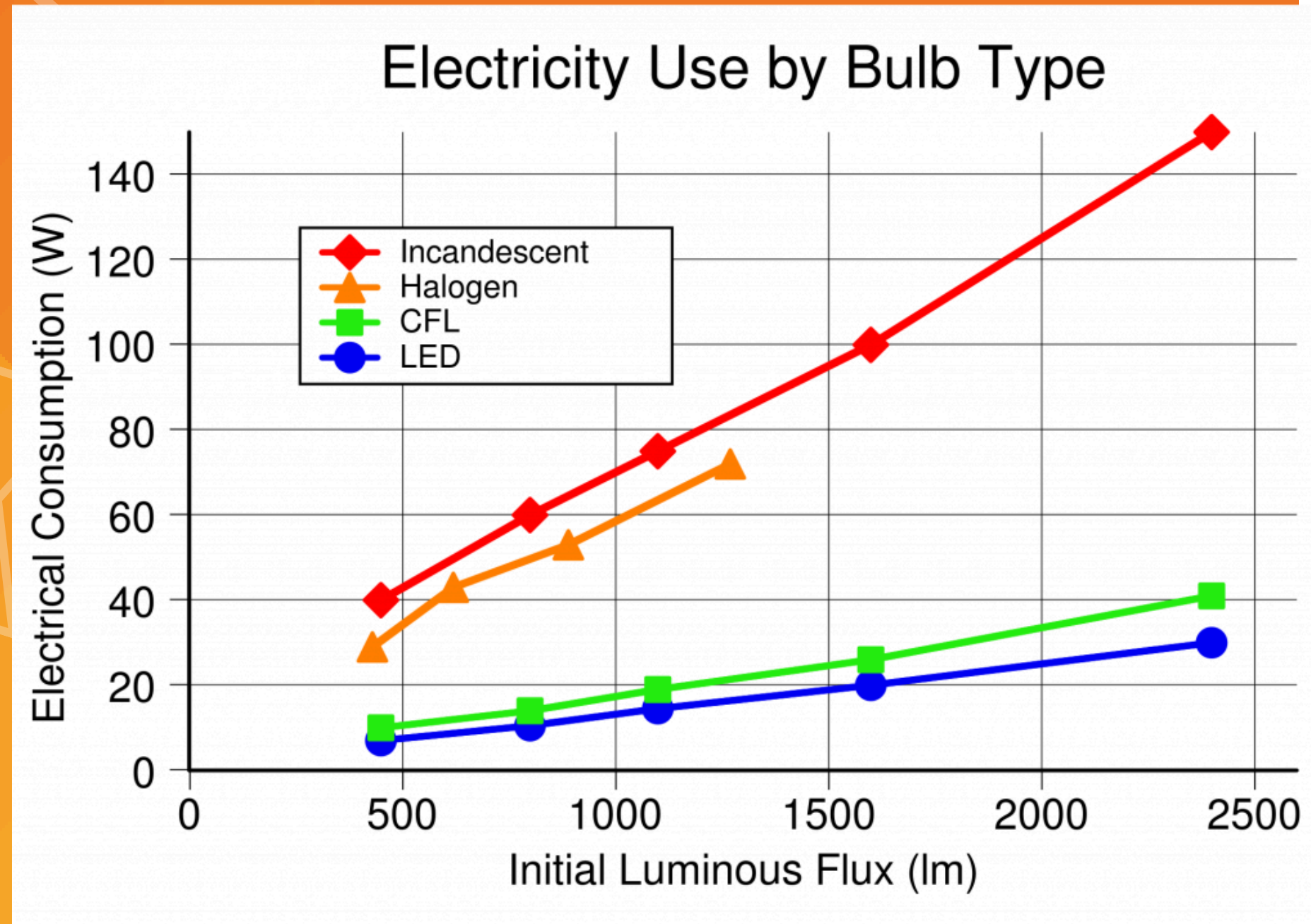
Unlike fluorescent lights, that contain mercury, a hazardous substance, LEDs are free from toxic elements. This makes them safer to use and easier to dispose of, reducing environmental contamination and the carbon footprint associated with hazardous waste management.

ENERGY EFFICIENCY

THE MOST ENERGY EFFICIENT BULB

LED lights are highly energy-efficient, using up to **75%** less energy than traditional incandescent bulbs and about **50%** less than fluorescent lights. This efficiency translates directly into reduced energy consumption, which lowers the demand on power plants and decreases the burning of fossil fuels.

Source: www.bluecrest.net/electrical-news/led-light-bulbs/

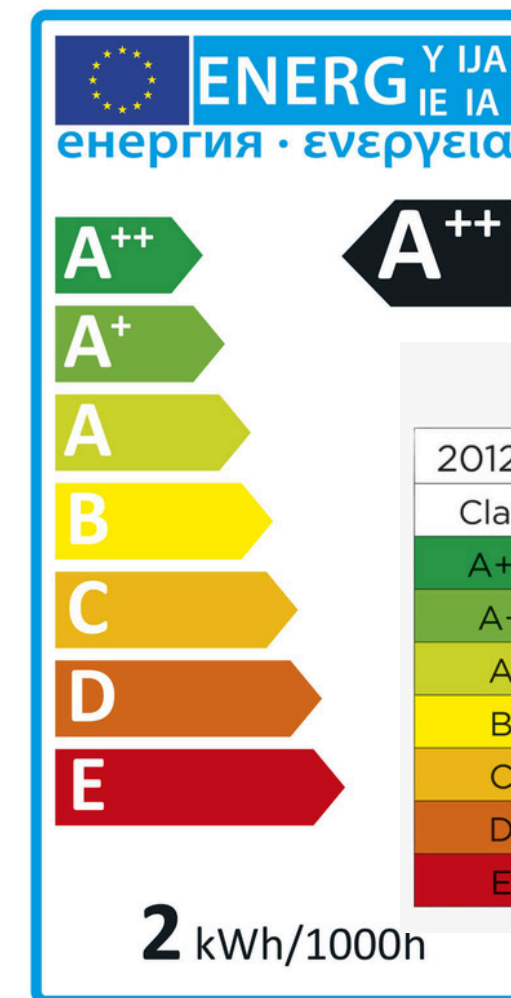


NEW LIGHTING REGULATIONS 2021

LEDs have sparked a revolution in electric lighting, with efficiency advancements in the last decade surpassing those made in the previous 120 years. Despite this progress, lighting still contributes to nearly 5% of global CO2 emissions, indicating the need for further action.

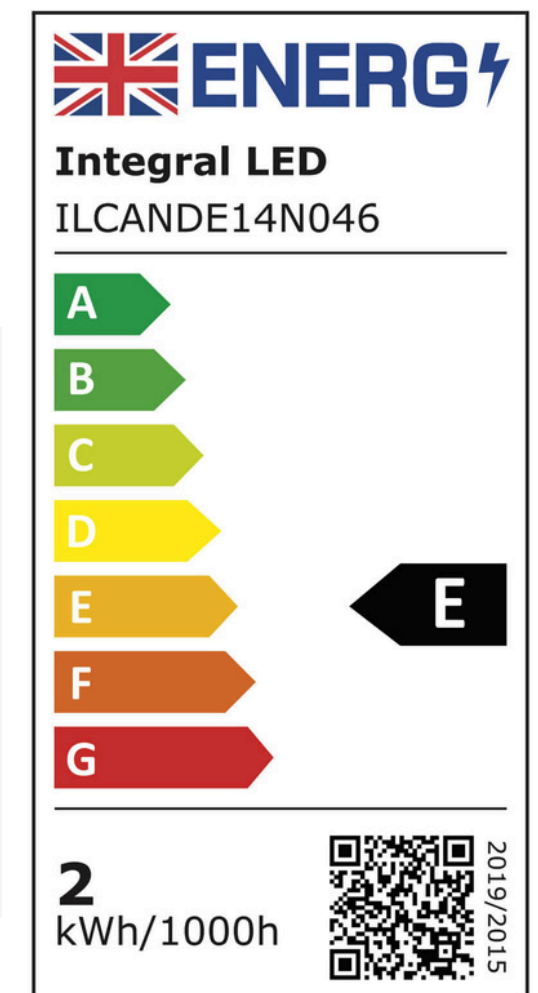
To address this, two new lighting regulations were introduced in the EU on September 1, 2021, with a unified regulation for the UK following on October 1, 2021.

The revised scale is still green to red in colour, but has a lettering scale from A to G with more efficiency needed to achieve these levels. As such, many products that were rated A++ will now be rated C or D.



PREVIOUS EU ENERGY LABEL

OLD		NEW	
2012 -2020 label		2021 -> label	
Class	lm/W	Class	lm/W
A++	120	A	210
A+	55	B	185
A	50	C	160
B	15	D	135
C	12	E	110
D	9	F	85
E	0	G	0



NEW EU AND UK ENERGY LABELS

FLUORESCENT TUBE BAN

The UK government has announced a ban on the sale of all fluorescent lighting, coming into effect on February 1st 2024. This is part of a series of bans that started on September 1st, 2023.



AFFECTED PRODUCTS

The Ecodesign and RoHS directives aim to support the Global Goals and the EU's 2030 climate objectives, ensuring that lighting products meet environmentally friendly standards in both the EU and the UK.

Are your bulbs up to code?

1st September 2023



Halogen Capsules

24th
August
2023



Florescent T5



Florescent T8

24th
February
2023



Circline T5 & T9



CFLni



Metal Halide
(HSI)

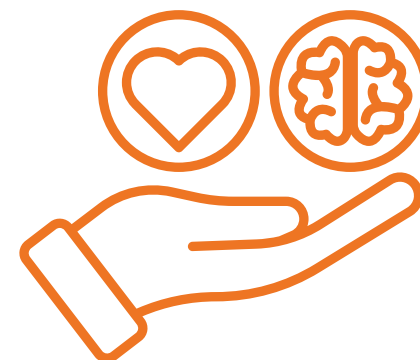


High Pressure
Sodium (SHP)

HEALTH & WELL-BEING



Improved lighting boosts productivity by enhancing visual clarity, reducing discomfort, and improving mood, enabling employees to focus and work efficiently.



LED lighting enhances health by reducing headaches, eye strain, and discomfort compared to poor lighting. It creates a healthier work environment by eliminating flickering that can trigger migraines and discomfort from fluorescent lights.



LED lighting can positively impact mood and morale by simulating natural light, supporting circadian rhythms, improving sleep patterns, and enhancing mental well-being.

ECONOMIC BENEFITS

- Lower Energy Bills
- Reduced Maintenance Cost
- Return on Investment (ROI) in under 3 years

LEDs reduce lighting energy costs by up to 80% and allow resources to be allocated to other investments.

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Group

LED lights have a long lifespan, reducing replacement and maintenance costs for businesses over time.

Investing in LED lighting may have higher initial costs than other options, but energy and maintenance savings, along with tax incentives, and rebates offer a rapid ROI

COLOUR CONTROL

Many LED lighting systems allow for the adjustment of color temperature,



Warmer temperatures in the afternoon can help reduce stress and promote relaxation.



Cooler light temperatures in the morning can boost alertness and productivity.



GOVERNMENT FUNDING OPTIONS

Green Finance offers the opportunity to acquire assets that can decrease your business's carbon footprint. By opting for green finance, you can enjoy the advantages of spreading out the financial burden and securing favourable rates.

Clients have access to finance solutions that allow them to split the expenses of any project into manageable monthly payments spanning from 12 to 84 months, depending on the asset.

When implementing energy-saving features, the savings generated can offset a portion of the finance costs, resulting in minimal impact on the business expenses.



10%



- School in Rochdale replaced all their lighting to LED energy saving lightbulbs.
- Cost: £42,358
- The client paid a deposit of 10% plus the VAT.
- The remaining balance was spread over 48 months for £802.20 per month. An annual cost of £9,626
- The school would save on average £12500 per year on energy meaning the savings covered the finance payments and still saved the school nearly £3,000 per year.

THANK YOU

ANY QUESTIONS, GET IN CONTACT

CONTACT US



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For any enquiries or consultations
regarding our services, please feel
free to contact us.

We are here to assist you!



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