

Opti-Catch

# SAFER INSECT TRAP LIGHTING FOR FOOD SITES

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# SPEAKERS



**Jasmin Emmerson**  
Sales Director, Opti-Catch



**Kim Stilwell**  
Technical Manager (Food), BRCGS



**Stuart Dell**  
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# WHAT YOU'LL LEARN



## RoHS Directive

Difference in legislation between General & Special lighting.



## Timescales

Exemption extension.  
What needs to happen before a ban?



## Retrofit LED

Benefits of retrofit LED & what food sites should consider when switching.



## Q & A

Opportunity to ask any questions to the panel.



# RoHS status update

Stuart Dell – Special Lighting UK&I

January 2026



# PHILIPS

Formerly Philips Lighting

Largest lighting company Globally

One of the largest manufacturers of Light sources for use in EFK's

*No more fluorescent lamps for EFKs after February 2027*

*Who the hell told you that?*

# I put the following question into Google.

Are fluorescent tubes now illegal?

AI Overview

Yes, the sale of most common fluorescent lights (T5, T8 tubes, CFLs) has been banned in the UK and EU, with deadlines in 2023/2024, as part of a phase-out under RoHS directives to replace mercury-containing, energy-inefficient bulbs with LED alternatives for environmental and health reasons. While existing stock could be sold off, new production and sales have largely ceased for general use, pushing businesses and homes to switch to more sustainable LED lighting. @

As stated on 18/11/25, by Sundar Pichai, CEO of Alphabet (Googles Parent)

*Do not “blindly trust” everything that AI tools tell you*

# RoHS

Restriction of Hazardous Substances

The original RoHS directive was first adopted by the EU in 2003

The first edition took effect in 2006 restricting 6 substances. Mercury being the most relevant for the lighting industry

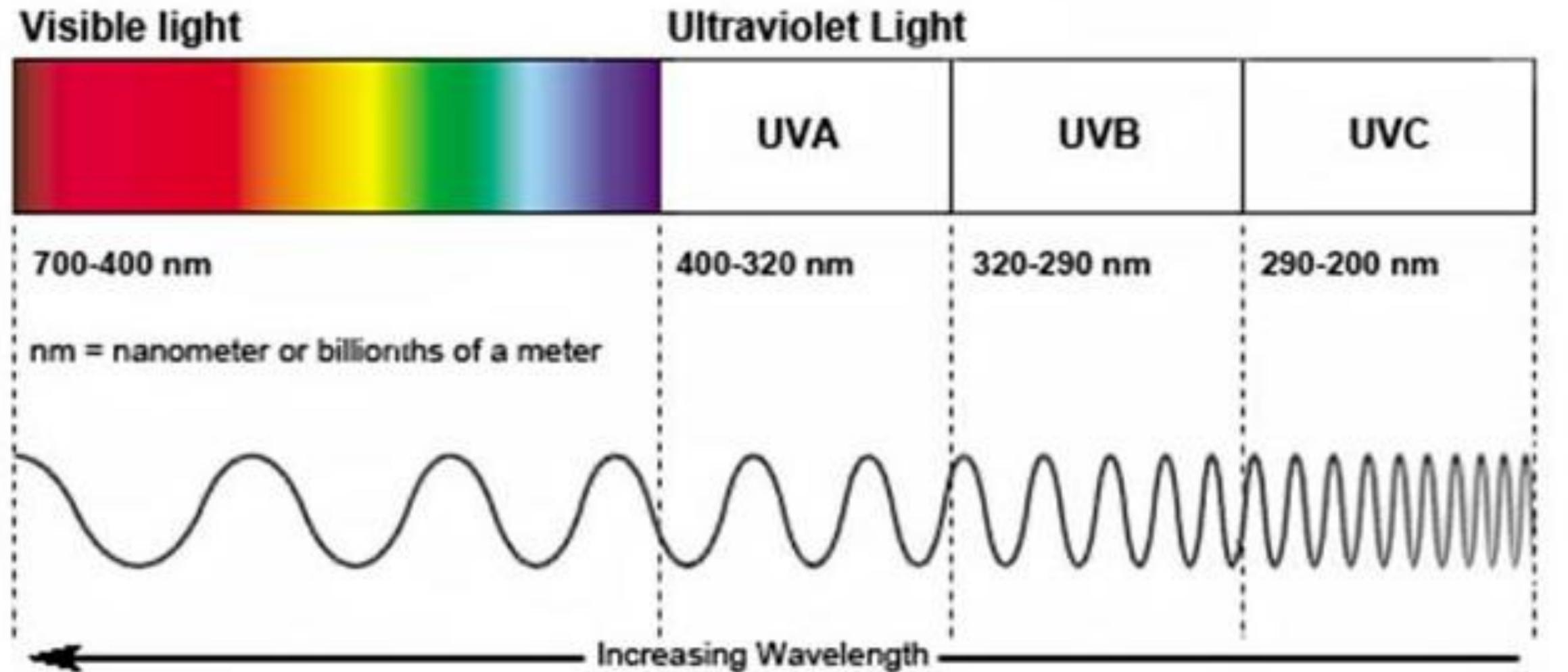
## **Major step in 2023**

White Light Linear and compact fluorescent lamps were banned for production and sale in the EU & UK

This has been the key contributory factor behind why there is now so much confusion in market

Fluorescent lamps for Special Applications are still affected by the 2023 white light ban

# What are regarded as Special Applications



**UVA**  
Insect Traps  
UV curing  
Reprographic

**UVB**  
Psoriasis treatment  
Tanning beds

**UVC**  
Purification air & water  
Surface disinfection

# RoHS categories and status update

Low Pressure Discharge Lamps	2023	2025 24.02	2027 24.02	2030	2032
<b>CFL Compact Fluorescent Lamps</b> PL-C, PL-S, PL-T, PL-L, PL-L Xtra, PL-R, PL-Q					
<b>CFL UV-A, UV-B - ROHS exemption 1(f)-I</b>				Prolongation request under preparation	
<b>LFL Linear Fluorescent Lamps</b> T8, T5, T8 Extreme, T5 Extra					
<b>LFL Linear Fluorescent Lamps</b> T12					
<b>LFL colored and high CRI for entertainment, decorative application, phototherapy etc - ROHS exemption 2(b)(4)-I</b>				Prolongation request submitted	
<b>LFL UV-A, LFL UV-B – ROHS exemption 2(b)(4)-II</b>				Prolongation request under preparation	
<b>CFL and LFL Emergency – ROHS exemption 2(b)(4)-III</b>				Prolongation request under preparation	
<b>NFL - Non-Linear Fluorescent Lamps</b> TL-E Circular (T9), TL-D U – ROHS exemption 2(b)(3)					
<b>LFL Linear Fluorescent lamps for explosive environment/ public transport: TL-X XL, TLD 36W 1m</b>	Out of scope				
<b>Non-Fluorescent lamps – UV-C – ROHS exemption 4(a)-I</b>				Prolongation request under preparation	

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**Categories affecting to Insect Trap**

- Compact FL - 1(f)-1
- Linear FL – 2(b)(4)-III

- May 2025 – Lighting Europe released a statement on RoHS lamp extensions.
- August 2025, On behalf of the Lighting industry, Lighting Europe submitted the application for extensions to exemption categories 1(f)-1 & 2(b)(4)-III
- As highlighted in the May 2025 statement.  
**Note 2.** *If a renewal request is not granted the European Commission must still grant a transition period of 12-18 months to give time to the market for a final phase out*
- Lighting Europe are confident that an additional extension will be granted to these exemption

<sup>2</sup> The [EU RoHS Directive](#) (2011/65/EU) regulates the placing on the EU market of electrical and electronic equipment (EEE) that contains certain hazardous substances. The law prohibits the use of mercury in lamps unless used in an explicitly exempted application as listed in Annex III and Annex IV of the Directive. These exemptions are granted by the European Commission for a certain time period. However, the listed expiry dates are generally not considered final phase-out dates as these exemptions can be periodically renewed by submitting a renewal request of the exemption period. During the evaluation period of such a renewal request, the existing exemption remains valid - even beyond the listed expiry date. If a renewal request is not granted, the European Commission must still grant a transition period of 12-18 months to give time to the market for a final phase-out.


Brussels, 26 May 2025


THE VOICE OF THE LIGHTING INDUSTRY

## LightingEurope Statement on RoHS lamp exemptions

### Key messages

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This document informs market stakeholders about the phase-out of mercury and lead-containing lamps in the EU, essentially set through the Mercury Regulation<sup>1</sup> and RoHS Directive<sup>2</sup>. It clarifies which RoHS exemptions have expired and which LightingEurope has or will pursue renewal for, emphasising the continued validity of existing exemptions during the renewal process.

### LightingEurope & specific RoHS exemptions

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LightingEurope has already applied for a new validity period for the following RoHS exemptions:

- **RoHS exemption 5(b)** 'Lead (not intentionally added) in soda lime glass used in the glass tube of fluorescent tubes not exceeding 0,2 % by weight'.
- **RoHS exemption 18b / 34 Annex IV** Suntanning and medical lead activated phosphor lamps.
- **RoHS exemption 4(f)-I** 'Mercury in other discharge lamps for special purposes not specifically mentioned' - this includes (ultra) high-pressure mercury lamps used for projectors with an output of < 2000 ANSI lumen and used in certain entertainment applications.
- **RoHS exemption 2(b)(4)-I** 'Mercury in other fluorescent lamps not exceeding per lamp: 15mg [Hg]. Lamps for other general lighting and special purposes - this

<sup>1</sup> The [EU Mercury Regulation](#) (EU 2017/857) implements the [United Nations Minamata Convention](#) and restricts the manufacture, export and import of certain mercury-added products, including certain lamps. These are listed in Annex II of the Regulation. This list was extended by the European Commission in October 2023 ([EU 2023/2049](#)) and new additional restrictions have been proposed by policy-makers [in early 2024](#). These agreed restrictions do not impact those lamps still allowed under the RoHS Directive. See the [2024 LightingEurope press release on the EU mercury regulation](#) for more information.

<sup>2</sup> The [EU RoHS Directive](#) (2011/65/EU) regulates the placing on the EU market of electrical and electronic equipment (EEE) that contains certain hazardous substances. The law prohibits the use of mercury in lamps unless used in an explicitly exempted application as listed in Annex III and Annex IV of the Directive. These exemptions are granted by the European Commission for a certain time period. However, the listed expiry dates are generally not considered final phase-out dates as these exemptions can be periodically renewed by submitting a renewal request of the exemption period. During the evaluation period of such a renewal request, the existing exemption remains valid - even beyond the listed expiry date. If a renewal request is not granted, the European Commission must still grant a transition period of 12-18 months to give time to the market for a final phase-out.

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**Link to the Lighting Europe May 2025 statement**

[LightingEurope - RoHS Statement - FINAL -- 20250526.pdf](#)

# But the UK is not part of the EU

## What is DEFRA's position

There was a policy implementation review last year (17<sup>th</sup> February 2025):

[https://assets.publishing.service.gov.uk/media/67b466b84a80c6718b55bea5/RPC-DEFRA-25027-PIR\\_1\\_-\\_The\\_Restriction\\_of\\_the\\_Use\\_of\\_Certain\\_Hazardous\\_Substances\\_in\\_Electrical\\_and\\_Electronic\\_Equipment\\_Regulations\\_2012.pdf](https://assets.publishing.service.gov.uk/media/67b466b84a80c6718b55bea5/RPC-DEFRA-25027-PIR_1_-_The_Restriction_of_the_Use_of_Certain_Hazardous_Substances_in_Electrical_and_Electronic_Equipment_Regulations_2012.pdf)

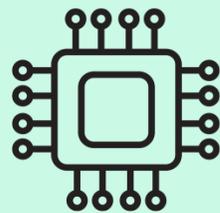
The general tone in Whitehall is one of seeking to maintain alignment with the EU on standards, unless divergence has some distinct benefit

# WHAT NEEDS TO HAPPEN BEFORE A BAN?

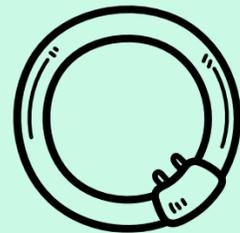


## Did you know?

Fluorescent lamps equate to **less than 2%** of Global Mercury consumption!



All control gear catered for - not just switch-start



A full retrofit family, to cater to almost all lamps used!



LED development in other applications such as medical & sterilization uses

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# BENEFITS OF RETROFIT LED



Cost of ownership – longer lifetime (no more annual replacement!)



Energy savings (up to 66%)



Utilise existing equipment – no additional installation or disruption



Familiar form-factor, universally available

### Retrofit LED Insect Light Trap Calculator

www.opti-catch.com/calculator

Report generated on 3 September 2025

#### Configure Your Settings

Electricity cost (£ per kWh) 0.3	Hours of operation per day 24	Number of traps 1	Lamps per trap 1 2 3 4
Opti-Catch lamp cost (£) 37.67	Fluorescent lamp cost (£) 10		

#### Your Total 3-Year Savings\*

# £142.25

For 1 trap with 2 lamps each

Initial Investment  
**£75.34**

Payback Period  
**12 months**

First Year Savings  
**£17.19**

\*Savings based on April 2025 Energy Price Cap. Subject to change.

### Retrofit LED Insect Light Trap Calculator

www.opti-catch.com/calculator

Report generated on 4 September 2025

#### Configure Your Settings

Electricity cost (£ per kWh) 0.3	Hours of operation per day 24	Number of traps 20	Lamps per trap 1 2 3 4
Opti-Catch lamp cost (£) 37.67	Fluorescent lamp cost (£) 10		

#### Your Total 3-Year Savings\*

# £2845.00

For 20 traps with 2 lamps each

Initial Investment  
**£1506.80**

Payback Period  
**12 months**

First Year Savings  
**£343.80**

\*Savings based on April 2025 Energy Price Cap. Subject to change.

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# SUSTAINABILITY HIERARCHY: WHY RETROFIT MAKES SENSE

## REDUCE

Avoid replacing  
working traps

## REUSE

Upgrade existing  
equipment to LED

## RECYCLE

Recycle  
equipment only at  
end of life

Extend trap life



Reduce waste



Save cost

# GLASS VS PLASTIC LAMPS

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	Glass+FEP	Plastic
UV Stable	✓	✗
Durable	✓	✗
Risk of contamination	✗	✓
Compliant - IEC61549	✓	✗

# DIFFUSED VS NON-DIFFUSED LAMPS

## Improved visibility

Diffusion spread UV across a wider beam angle

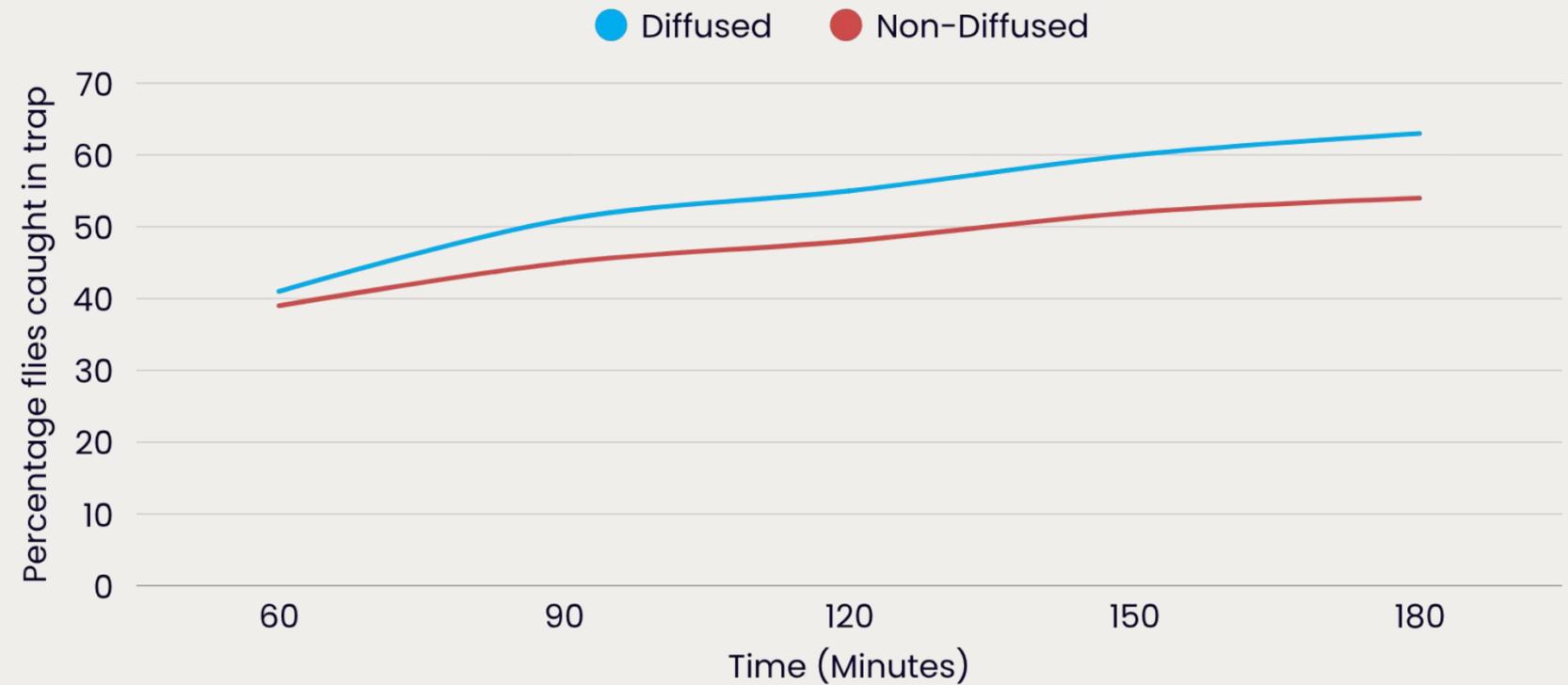
## Mimics fluorescent

Broad UV spread is comparable to traditional fluorescent lamps

## Increased fly catch

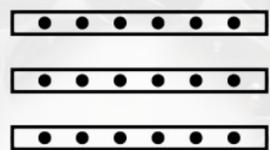
Diffusion coating increased fly catch by **14%** compared to non-diffused LED.

 i2L Research



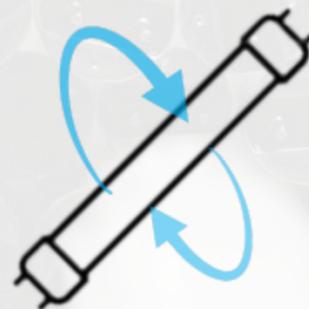
i2L Research

# THE POWER OF THE LAMP FORM FACTOR



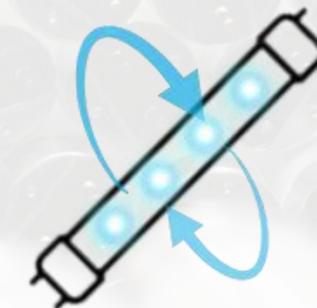
## Point-source LED fixtures

Produce strong but  
highly directional  
UV beams



## Lamp form factor

Offers a more  
natural,  
fluorescent-like  
spread of light



## Lamp form factor + diffused coating

Dispersed UV  
emission. Greater  
attraction  
consistency

# WHAT TO LOOK FOR IN RETROFIT LED

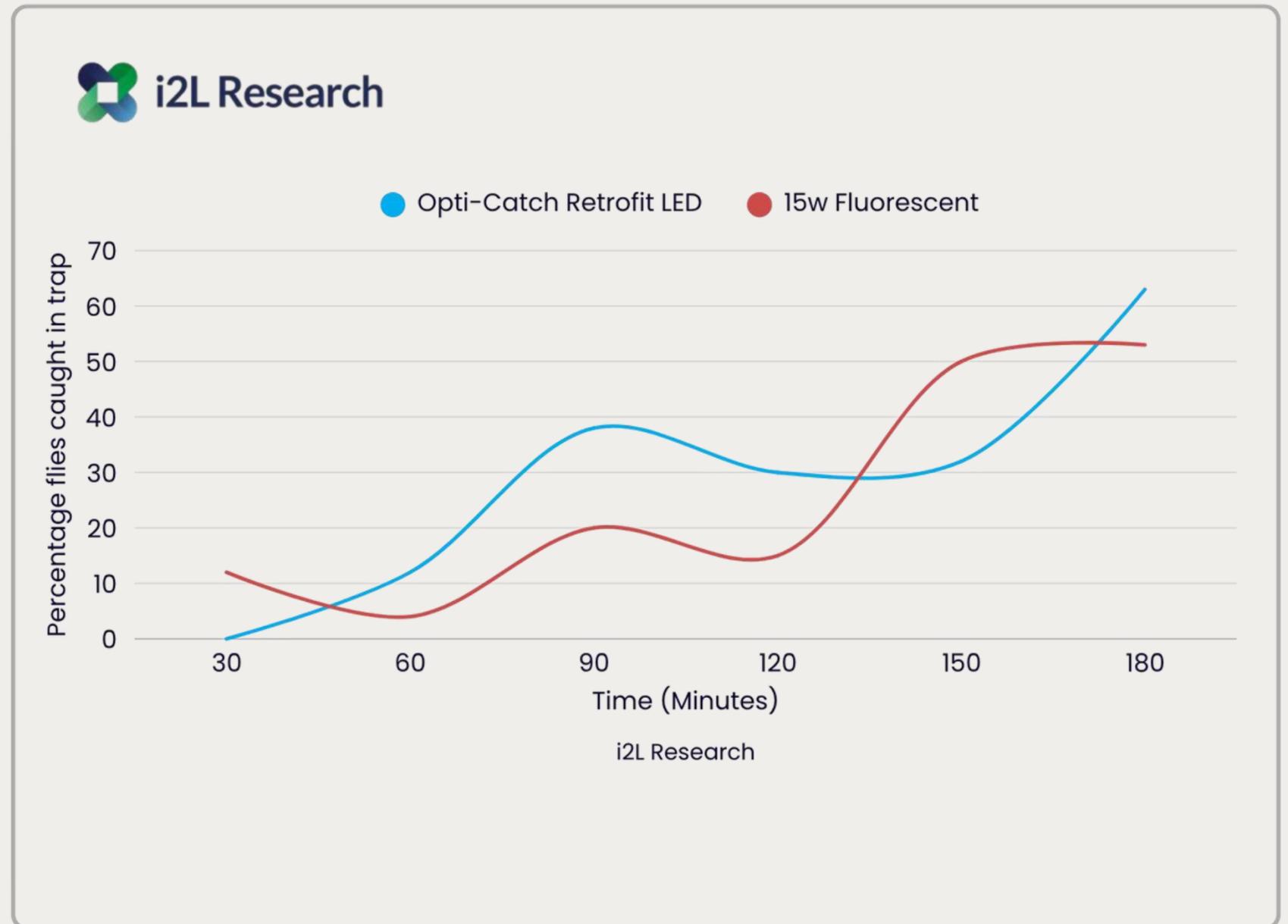
**01** Lifetime & warranty

**02** Independent fly-catch data

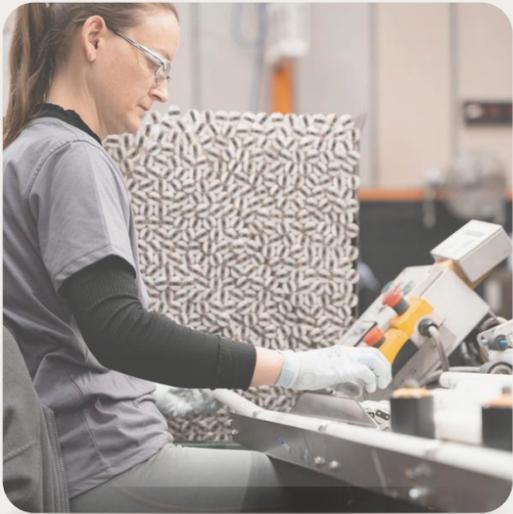
**03** Compatibility - lamp type / control gear

**04** Diffused FEP coating

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# QUESTIONS WELCOME!



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