

## Perfect results every time.

T5H is the first LED retrofit independently proven to deliver flawless photometric performance in all T5 fluorescent fixtures. Its patented lens and dual PCB replicate the 360° light output of a fluorescent tube, ensuring precise control of lux levels, uniformity, and glare. It is the only solution to meet stringent EU standards for government buildings, even in recessed, reflector-style fixtures.

T5H matches both HE and HO fluorescent outputs and can be fine-tuned during installation to achieve precise lux levels. Seamlessly integrating with all lighting controls, it optimises energy savings while delivering a maintenance-free service life seven times longer than even the biggest brands' retrofit solutions.

T5H is the only one-for-one replacement indistinguishable from a fluorescent tube, even when dimmed, that guarantees predictable results, unmatched durability, and superior ROI. Backed by a comprehensive 10-year warranty, T5H sets a new benchmark for professional LED retrofits.

### T5H System Benefits

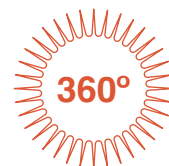
- Lasts seven times longer than standard retro-fit tube
- Power to match all HE and HO T5 fluorescent.
- 360° Omni-directional light source.
- True One-for-One replacement
- Suitable for use with all fixtures.
- All standard colours (CCT)
- Available as CRI85 or CRI95
- Compatible with all lighting controls.
- No LED spotting when dimmed.
- Installs easily and safely in minutes
- Standard T5 pin or magnetic mount.
- Eliminates maintenance.
- 10 Year warranty.



**L90/100,00Hrs**  
**162lm/W**

#### Suitable for:

Low glare louvre reflectors  
Prismatic and diffused lenses  
Recessed and surface mount fixtures  
Shop fixtures and back lights  
Complies to EN 12464-1.

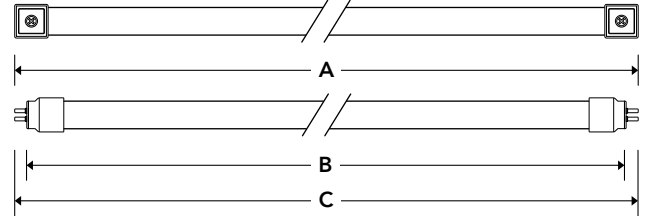


## T5H Technical Specifications

### Dimensions

Select length and chipset, and set lux levels by adjusting the output of the LED driver within the maximum limits indicated below

Nominal	Max A	Max B	Max C
0550	530 mm	549 mm	563 mm
0850	830 mm	849 mm	863 mm
1150	1130 mm	1149 mm	1163 mm
1450	1430 mm	1449 mm	1463 mm
1750	1730 mm	1749 mm	1763 mm

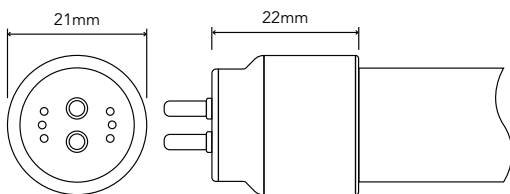


### Performance comparison

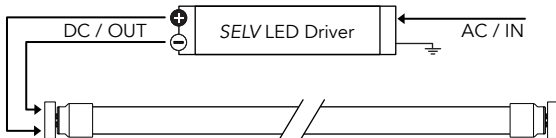
Fluorescent	Output	Watts*	ISOLLUX-T5H	Efficacy	T5H LED*	Energy Saving	Max T5H	Max T5H
0550/HE/14W	1,200lm	19W	T5H-0550-HE	141lm/W	8.5W	56%	14W	1,974lm
0850/HE/21W	1,950lm	26W	T5H-0850-HE	141lm/W	13.8W	47%	24W	3,334lm
1150/HE/28W	2,500lm	36W	T5H-1150-HE	145lm/W	17.2W	52%	36W	5,220lm
1450/HE/35W	3,300lm	45W	T5H-1450-HE	145lm/W	22.7W	49%	42W	6,090lm
1750/HE/49W	4,400lm	59W	T5H-1750-HE	145lm/W	30.3W	49%	45W	6,525lm
0550/HO/24W	2,200lm	47W	T5H-0850-XE	157lm/W	14.0W	53%	14W	2,203lm
0850/HO/39W	3,500lm	30W	T5H-0550-XE	162lm/W	21.6W	54%	24W	3,884lm
1150/HO/54W	5,000lm	64W	T5H-1150-XE	158lm/W	31.6W	51%	36W	5,665lm
1450/HO/35W	6,500lm	90W	T5H-1450-XE	162lm/W	40.1W	55%	42W	6,797lm
1750/HO/80W	7,200lm	90W	T5H-1750-XE	162lm/W	44.4W	51%	45W	7,200lm

### T5 End cap with standard pins

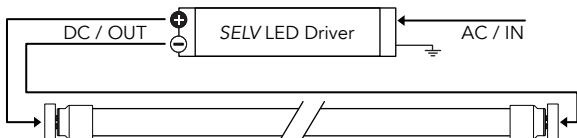
Standard T5 pin connection with the option specify wire at one (P1E) or both ends (P2E)



#### P1E Pin with single end connection

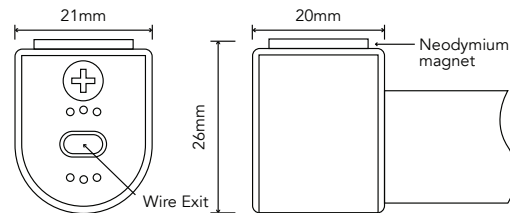


#### P2E Pin with dual end connection

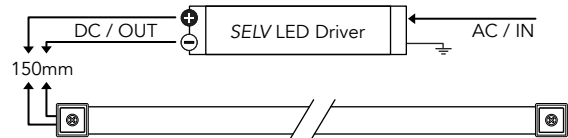


### Magnetic with wire-to-wire connection

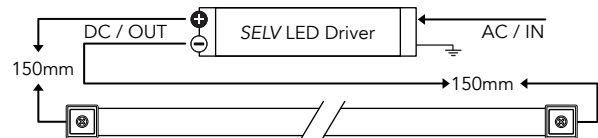
Magnetic mount with 150mm wire-to-wire lead connection at one end (M1E) or both ends (M2E)



#### M1E Magnet with single end connection



#### M2E Magnet with dual end connection

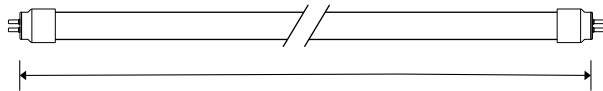


\*Fluorescent Watts and output (lm) indicated are based on average system performance including an electronic ballast operating at Ta 25°C, LED Watts includes typical LED driver losses. Values may vary subject to ballast and driver specification. Slight deflection may occur in T5H tubes when not supported by a reflector, where it is essential to maintain a perfect linear appearance such as open architectural features, specify T5G.

## T5H Code Builder

### 1. Length

To start choose the product by length from the list of 'nominal' sizes available to match the T5 fluorescent product in your existing light fixture.



### 2. LED Chipset

Next select from standard or high power LED die.

'HE' provides ample power to maintain or raise lux levels in the majority of interior light fixtures and delivers the best all round value.

'XE' delivers a power boost, and recommended for high output (HO) Fluorescent longer than 1150mm or where the goal is to increase lux levels.

### 3. Colour Temperature

The first position in this next group, specifies the Correlated Colour Temperature of the tube (CCT) Measured in ,000°K. Where 3 =3,000°K, 4 = 4,000°K etc. And AMB = \*Ambrite<sup>TM</sup> (for photosensitive applications)

### 4. Colour Rendering

The next two digits define colour rendering (CRI\*). CRI85 delivers the highest efficacy, and is suitable for most general applications. Specify CRI95 for colour critical tasks, such as medical applications or quality control.

### 5. Mounting Options

T5H (-P) pin mount integrates with the original T5 fluorescent connectors or specify a magnetic mount (-M) for direct wire-to-wire connection to by-pass damaged or hard-to-source parts.

### 6. Power and Connection Options

While there is no difference in performance, the option to choose single (1E) or dual end (2E) power supply can prove useful to reduce installation time depending on the type, age and access to the light fixture.

MODEL	LENGTH	LED	CCT	CRI	MOUNT	POWER
T5H	-0550	-HE	-A	MB	-P	1E
	-0850	-XE	-3	85	-M	2E
	-1150		-4	95		
	-1450		-5			
	-1750		-6			
T5H	-0550	-HE	-A	MB	-P	1E
	-0850	-XE	-3	85	-M	2E
	-1150		-4	95		
	-1450		-5			
	-1750		-6			
T5H	-0550	-HE	-A	MB	-P	1E
	-0850	-XE	-3	85	-M	2E
	-1150		-4	95		
	-1450		-5			
	-1750		-6			
T5H	-0550	-HE	-A	MB	-P	1E
	-0850	-XE	-3	85	-M	2E
	-1150		-4	95		
	-1450		-5			
	-1750		-6			
T5H	-0550	-HE	-A	MB	-P	1E
	-0850	-XE	-3	85	-M	2E
	-1150		-4	95		
	-1450		-5			
	-1750		-6			
T5H	-0550	-HE	-A	MB	-P	1E
	-0850	-XE	-3	85	-M	2E
	-1150		-4	95		
	-1450		-5			
	-1750		-6			

\*See brochure for detailed analysis of colour fidelity and CRI options

Ambrite<sup>TM</sup> eliminates wavelengths below 500nm and is used for light and colour sensitive applications, for example: minimising the attraction of moths and flies around fresh produce handling and logistics or industrial applications, such as pharmaceutical production, brewing and 3D lithography.

## T5H Driver and Lighting Controls

### Professional Support for driver selection

Upgrading to a modern LED driver replaces outdated fluorescent components, future-proofing your lighting solution and minimising the risk of unscheduled maintenance.

We provide expert guidance to specify LED drivers that deliver optimal performance for your project. During installation, the driver's output current can be pre-set or fine-tuned on-site to achieve precise lux levels, ensure statutory compliance, and maximise energy savings.

Our ENEC-certified, flicker-free, SELV~DC-compliant drivers are designed to match the 100,000-hour service life of Isollux T5 LED tubes. They integrate seamlessly with existing controls or cost-effectively introduce new systems to further optimise energy efficiency.

### Why Adjustable Output Matters

Fluorescent fixtures vary in efficiency due to tube type (HE or HO), fixture design, and ambient conditions. Adjustable output is essential for achieving a professional LED upgrade tailored to specific requirements. One-size-fits-all retrofit solutions cannot deliver predictable results.

Isollux T5 simplifies site audits with length-based selection, driver-adjustable lux levels, and industry-leading lumen depreciation rates. This flexibility and high performance allow installers to achieve precise results, optimal energy savings, and compatibility across all fluorescent fixtures. Dependable results that protect your investment over the long term.

### Photometry Services

While our products include standard settings for most installations, we also offer bespoke photometry and lighting design services. These services provide precise calculations and recommendations for large-scale rollouts, ensuring optimal performance that can be peer reviewed in advance of a significant investment.

### Compatibility with Lighting Controls

T5H integrates effortlessly with all control systems, from legacy options like 1-10V and C-Bus to modern DALI and wireless solutions such as Bluetooth and Casambi. This flexibility allows you to retain existing systems, avoiding retraining costs, or upgrade wirelessly, delivering the benefits of LED technology at a fraction of the cost and environmental impact of replacing fixtures.

### DIP Switch Drivers

Simple, user-friendly, and adjustable in steps (typically 50mA), our DIP switch drivers offer flexibility in the field, as they adjust at the point of installation without specialised tools. Best suited for projects where on site flexibility is essential. Once set, lights integrate seamlessly with simple wall switches or can be integrated with controls to increase energy savings.

### NFC and Wireless Drivers

Near Field Communication (NFC) and other wireless solutions like Casambi and Bluetooth offer finer adjustments ( $\pm 1\%$ ) via wireless programming. They provide ultimate control and extremely accurate calibration. They are especially effective when combined with photometric testing and calibration and applied to large contemporary sites that have accurate 'as-built' records. Achieving highly targeted and predictable results when used in combination with revised lighting plans in Dialux or AGi 32.



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