



**PHILIPS**

# Real pros have the perfect LED tube for every job

Discover our wide portfolio of efficient LED tubes for every application area, demand and budget.

[philips.com/ledtube](https://philips.com/ledtube)

**REAL  
PROs**  
**REAL  
QUALITY**



# An LED tube for every application

Simplicity and ultra-efficiency make Philips LED tubes the quickest and easiest way to upgrade to LED for immediate energy savings over a long and reliable lifetime.

# Real pros choose Philips LED tubes for:



## Fast and easy installation

- Philips LED tubes are true retrofit, making it the fastest-to-install solution



## Trusted performance

- Low early failures
- Warranty up to 7 years
- High resistance to switching cycles



## Hassle-free compatibility

- No wires to replace or drivers to change
- InstantFit solutions work with HF electronic ballasts
- Universal LED tubes available – compatible with all ballast types



## Pin safety

- Safe to touch the end cap when installing
- Integrated driver isolated from touchable parts
- Meets UL and IEC pin safety requirements



# The right LED tube. Always.

Finding the right LED tubes for different plans, needs and budgets is easy with the extensive Philips portfolio. It ensures that you always have a quality solution at the price you want.

- Choose CorePro LEDtubes for everyday replacement of fluorescent tubes in general applications.
- The MASTER Value range offers strong performance in more demanding applications with intense usage.
- The MASTER range is the right choice for every project that calls for best in class performance.
- MasterConnect LEDtubes are Interact Ready and can be integrated into smart lighting systems for personal and automated light control.





# Product overview

## CorePro

Value and features 

### CorePro LEDtube EM/Mains T8

- Best value for money solution to upgrade to LED
- Truly retrofit, safe and hassle-free installations
- Up to 50% energy savings
- Glass platform that optimizes the usage of luminaire optics



### CorePro LEDtube Universal T8

- Best value for money solution to upgrade to LED
- Truly retrofit, safe and hassle-free installations
- Up to 50% energy savings
- Glass platform that optimizes the usage of luminaire optics



# Product overview

## MASTER Value

Value and features 



### MASTER Value LEDtube EM/Mains T8

- Truly retrofit, safe and hassle-free installations
- High efficiency of up to 160lm/W to reduce operational cost
- Glass platform with a wider beam angle for better lighting uniformity
- Reduced maintenance cycle thanks to the longer lifetime



### MASTER Value LEDtube Universal T8

- Unbeatable universal compatibility with HF, EM ballasts and direct mains
- High efficiency of up to 160lm/W
- Glass platform with a wider beam angle for better lighting uniformity
- Reduced maintenance cycle thanks to the longer lifetime

# Product overview

## MASTER

Value and features 



### MASTER Value LEDtube EM/Mains T8

- Fastest and easiest way to upgrade existing luminaires to LED technology
- Best-in-class energy saving with up to 185lm/W efficiency
- Truly shatterproof thanks to plastic design
- Rotatable end-caps for maximized installation flexibility
- Higher flux through smaller beam angle



### MASTER LEDtube InstantFit HF T8

- Truly retrofit solution that has widest HF ballast compatibility
- Up to 155lm/W energy efficiency
- Shatterproof solution thanks to plastic design
- Rotatable end-cap for various applications
- Higher flux through smaller beam angle



# Product overview

## MASTER

Value and features 

### MASTER LEDtube Mains T5

- Quickest and easiest upgrade to LED
- Optimized glass design to reduce glare
- Up to 155lm/W energy efficiency
- Operates on direct mains



### MASTER LEDtube InstantFit HF T5

- Quickest and easiest upgrade to LED
- Optimized glass design to reduce glare
- Up to 155lm/W energy efficiency
- Unbeatable HF ballast compatibility



# Product overview

## MasterConnect

Value and features 



### MasterConnect LEDtube EM/Mains T8

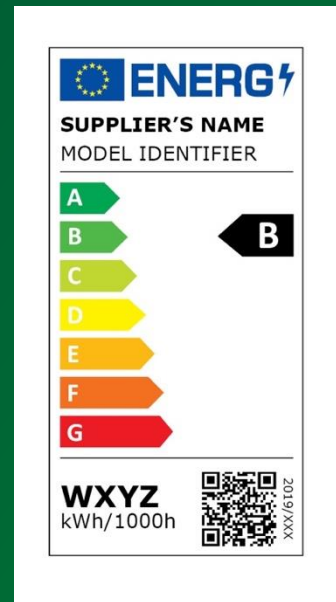
- Smart retrofit LED solution that brings wireless connectivity to existing luminaires
- Up to 90% of energy savings than fluorescent lamps via advanced lighting controls
- Works seamlessly with Interact Pro system
- Scalable and upgradable from stand-alone to cloud-based solutions

# Always compliant, always up-to-date

## New regulations for more sustainability

As of September 2021, the EU is implementing two updated regulations, both with the goal of further expanding the lighting industry's lead in sustainability by delivering significant energy savings for lighting products and systems.

- The Ecodesign Regulation (SLR): Aims to improve product performance and sustainability
- Products that fail to meet requirements will be phased out
- The Energy Labelling Regulation: Introduces a new consumer-friendly energy label to empower end users to choose energy efficient products
- The new scale reflects how efficient a product is – the definition of A to G is changed based on the new efficacy requirements



# Always compliant, always up-to-date

## New regulation for optimized light quality

The Single Lighting Regulation (SLR) also aims to optimize the functional requirements for light quality – above all the stroboscopic effect and flicker of mains voltage light sources. Starting from September 1, 2021 the low-flicker qualities and stroboscopic effect will be governed and further regulated until 2024.

With Philips LED tubes you are well prepared for the upcoming regulations: all our MASTER LEDtubes meet the 2024 requirements already!

September 2021

**Stroboscopic effect:**

$$SVM^1 \leq 0,9^2$$

**Low-flicker qualities:**

$$P_{stLM} \leq 1$$

September 2024

**Stroboscopic effect:**

$$SVM^1 \leq 0,4^2$$

# Philips MASTER LEDtube UE: our most energy-efficient LED tube yet.

## Best-in-class efficiency

- Ultra energy efficient with up to 185 lm/W
- Saves up to 72% energy compared to a conventional fluorescent equivalence
- Payback period of only 6.5 months
- 70,000 hrs lifetime: reduces maintenance cycle by 4.7×
- 7 years warranty to ensure peace of mind

## General benefits of the MASTER LEDtube range

- Ultra high lumen package – up to 3700 lumen
- True shatterproof according to IEC standards
- Uniform directional light (rotatable endcap design)
- High flux – thanks to small beam angle of 160°

Product highlight





## New connections for new opportunities

**Take the first step into connected lighting with Philips MasterConnect LEDtubes.**

Philips MasterConnect LEDtubes are smart retrofit LED tubes that give you an easy and seamless way to upgrade and embrace all benefits of connected lighting.

- Retrofit to T8 lamps on EM ballast or mains
- Safe and hassle-free installation
- 55% energy savings compared with fluorescent lamps
- Extra-long lifetime of 60,000 hrs
- Perfect for office, school, retail, healthcare, parking and warehouse

### Product highlight

interact  
ready.



Works with Interact and Philips MasterConnect apps



Add switches for wireless lighting



Add sensors for automated lighting



Add a gateway for connected lighting



# Choose the right LED tube for every application

		T8 fixture						T5 fixture			
		CorePro LEDtube SO	MASTER Value LEDtube HO	MASTER Value LEDtube UO	MASTER LEDtube HO	MASTER LEDtube UO	MASTER LEDtube UE	MasterConnect LEDtube	MASTER LEDtube HE	MASTER LEDtube HO	MASTER LEDtube UO
		up to 2200 lm	up to 3100 lm	up to 3700 lm	up to 3100 lm	up to 3700 lm	up to 3700 lm	up to 3700 lm	up to 3000 lm	up to 3900 lm	up to 5600 lm
Application Areas		Value and features:									
	<b>Industry</b> Burning hours: varies, max. 24/7 Light requirement: 200–500+ lux		✓	✓	✓	✓	✓	✓		✓	✓
	<b>Warehouses/factories</b> Burning hours: 12 hrs/day to 24/7 Light requirement: 200–300 lux		✓	✓	✓	✓	✓	✓		✓	✓
	<b>Car park</b> Burning hours: 24/7 Light requirement: 200+ lux	✓	✓		✓			✓		✓	
	<b>Supermarket/retail</b> Burning hours: 12 hrs/day to 24/7 Light requirement: 500+ lux		✓	✓	✓	✓		✓		✓	
	<b>Office/school/healthcare</b> Burning hours: usually 12 hrs/day Light requirement: 500+ lux		✓	✓	✓	✓	✓	✓	✓		
	<b>Public buildings</b> Burning hours: 12 hrs/day to 24/7 Light requirement: 100–500+ lux		✓		✓			✓	✓	✓	





# Get ready to save energy and costs




# Parking

Car parks and transportation networks need to feel bright and welcoming 24 hours a day. White LED light has a higher perceived brightness and superior color rendering, so people feel safer. High Output LED tubes raise the standards in car parks even higher. With a light output of up to 3100 lumen they provide maximum visibility and safety.

	Fluorescent TL-D 1500 mm		CorePro LEDtube SO 1500 mm	MASTER Value LEDtube HO 1500 mm	MASTER LEDtube HO 1500 mm
Lifetime	15,000 hrs	>	30,000 hrs	60,000 hrs	70,000 hrs
Lamp wattage	58W	>	20W	20.5W	18.2W
Average buying price/ lamp installer	3 €	>	8.97 €	16.53 €	25.50 €
Total costs/year/lamp*	84.77 €	>	26.33 €	25.95 €	24.06 €
Number of lamps	100				
Burning hours/year	8,760 hrs				
Total savings/year			5,844 €	5,882 €	6,071 €
Payback period			1.2 months	2.8 months	4.4 months
			Choose CorePro LEDtubes SO for the most attractive payback time	Choose MASTER Value LEDtubes HO for an optimal mix of value and performance	Choose MASTER LEDtubes HO for higher standards for visibility and safety in car parks



# Retail

Beautiful lighting brings out the best in the products on display and enhances the shopping experience for customers. But with lamps burning for up to 18 hours a day, food retailers want solutions that will reduce energy and maintenance costs – and show their green credentials in the best light.

	Fluorescent TL-D 1500 mm	MASTER Value LEDtube HO 1500 mm	MASTER LEDtube HO 1500 mm	MASTER Value LEDtube UO 1500 mm	MASTER LEDtube UO 1500 mm
<b>Lifetime</b>	15,000 hrs >	60,000 hrs	70,000 hrs	60,000 hrs	70,000 hrs
<b>Lamp wattage</b>	58W >	20.5W	18.2W	23W	21.7W
Average buying price/ lamp installer	3 € >	16.53 €	25.50 €	18.42 €	28.33 €
Total costs/year/lamp*	38.71 € >	11.85 €	10.99 €	19.07 €	18.62 €
Number of lamps	150				
Burning hours/year	4,000 hrs		5,760 hrs		
<b>Total savings/year</b>		<b>4,029 €</b>	<b>4,158 €</b>	<b>5,500 €</b>	<b>5,569 €</b>
<b>Payback period</b>		<b>6 months</b>	<b>9.7 months</b>	<b>5 months</b>	<b>8.2 months</b>
		Choose MASTER Value LEDtubes HO for an optimal mix of value and performance	Choose MASTER LEDtubes HO for high light output and attractive payback time	Choose MASTER Value LEDtubes HO for an optimal mix of value and performance	Choose MASTER LEDtubes UO for enhanced product presentation and shopping experience

# Industry

In ultra-demanding applications, 24/7 operations can run up expensive energy bills. With a super bright light output of up to 3700 lumen our Ultra Output and Ultra Efficiency LED tubes combine both the best light output for maximum visibility AND the highest lumen per watt efficiency.

	Fluorescent TL-D 1500 mm		MASTER Value LEDtube UO 1500 mm	MASTER LEDtube UO 1500 mm	MASTER LEDtube UE 1500 mm
<b>Lifetime</b>	15,000 hrs	>	60,000 hrs	70,000 hrs	70,000 hrs
<b>Lamp wattage</b>	58W	>	23W	21.7W	20W
Average buying price/ lamp installer	3 €	>	18.42 €	28.33 €	34 €
Total costs/year/lamp*	42.39 €	>	14.50 €	14.16 €	27.13 €
Number of lamps	400				
Burning hours/year	4,380 hrs		8,760 hrs		
<b>Total savings/year</b>			<b>11,153 €</b>	<b>11,292 €</b>	<b>23,057 €</b>
<b>Payback period</b>			<b>6.6 months</b>	<b>10.8 months</b>	<b>6.5 months</b>
			<b>Choose MASTER Value LEDtubes HO for an optimal mix of value and performance</b>	<b>Choose MASTER LEDtubes UO for the best light output in industry applications</b>	<b>Choose MASTER LEDtubes UE for very demanding industry applications – with the best total cost of ownership over lifetime</b>

# Office

With a light output of up to 3100 lumen, our High Output LED tubes provide brilliant light quality with the best lumen per watt. Ultra Output LED tubes shine with impressive, high quality light to create the most comfortable ambience that complies with all office norms and still saves on energy.

	Fluorescent TL-D 1500 mm	MASTER Value LEDtube HO 1500 mm	MASTER LEDtube HO 1500 mm	MASTER Value LEDtube UO 1500 mm	MASTER LEDtube UO 1500 mm
<b>Lifetime</b>	15,000 hrs >	60,000 hrs	70,000 hrs	60,000 hrs	70,000 hrs
<b>Lamp wattage</b>	58W >	20.5W	18.2W	23W	21.7W
Average buying price/ lamp installer	3 € >	16.53 €	25.50 €	18.42 €	28.33 €
Total costs/year/lamp*	24.19 € >	7.41 €	6.87 €	8.28 €	8.08 €
Number of lamps	400				
Burning hours/year	2,500 hrs				
<b>Total savings/year</b>		<b>6,715 €</b>	<b>6,930 €</b>	<b>6,366 €</b>	<b>6,445 €</b>
<b>Payback period</b>		<b>9.7 months</b>	<b>15.6 months</b>	<b>11.6 months</b>	<b>18.9 months</b>
		Choose MASTER Value LEDtubes HO for an optimal mix of value and performance	Choose MASTER LEDtubes HO for a simple switch for offices to save on energy	Choose MASTER Value LEDtubes HO for an optimal mix of value and performance	Choose MASTER LEDtubes UO for the best light output in the most demanding office applications



# Choose Philips LED lighting for:

## A reliable partnership

- Close cooperation and competent support before, during and after projects.
- We are closely working with local wholesalers to offer you flexible and on-time delivery – and product availability you can rely on.
- Grow your expertise and get certified with the Signify Lighting Academy.

## The best products

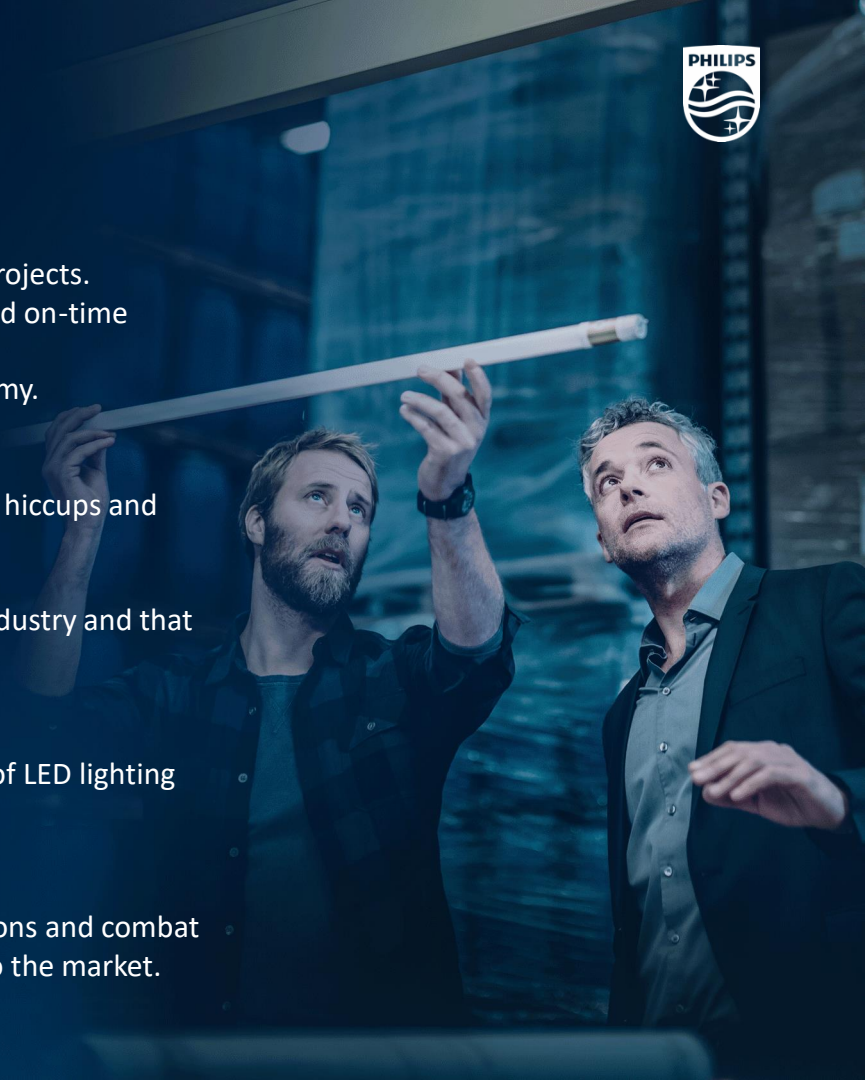
- Our high-quality products result in less maintenance, fewer technical hiccups and strengthen your reputation as a reliable lighting expert.
- Our easy to install products save you time and money.
- With Philips you get LED lighting that's setting the reference in the industry and that keeps you ahead of the competition.

## The widest portfolio

Whatever the need, whatever the budget: with our complete portfolio of LED lighting products you'll always have the right solution at hand.

## More sustainability

Energy efficient lighting is a fast and cost-efficient way to reduce emissions and combat climate change. We strive to bring the most energy-efficient products to the market.





**Over 2 billion Philips LED lamps and luminaires sold worldwide\* show: Real pros trust in Philips as their partner in lighting.**

\* LED lamps and luminaires delivered since 2015 (source: Signify's fourth quarter and full year results 2020)



**All info and the full portfolio on  
[philips.com/ledtube](https://philips.com/ledtube)**

