

LED tubes

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





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.

We have an LED tube for every application: bright easy-to-fit tubes that last and last. All our LED tubes have the industry's lowest failure rates for ultra reliable operation and lifetime.

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, while 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.

Fast installation, long reliable life

Philips LED tubes offer 100% safe and hassle-free installation with a simple tube-for-tube replacement. Our EM/ Mains, InstantFit HF and universal tubes fit straight into existing luminaires.

Our range has the widest ballast compatibility in the market, including the great majority of 600, 1200 and 1500mm versions.

LED tubes have more than double the life of fluorescents to halve the cost of maintenance. Even with installation and maintenance costs, our tubes pay for themselves within a few months for permanently lit sockets.

High quality professional tubes

Our LED tubes won't flicker or cause glare. They switch on instantly with excellent and uniform color consistency. Defined tube/ballast combinations can be dimmed. And rotating end caps can direct the light where needed.

Discover our attractive energy-saving alternatives to fluorescent tubes now and get all the info you need on: philips.com/LEDtubes

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.



Real pros choose Philips LED tubes for:



Fast and easy installation Philips LED tubes are true retrofit, making it the fastest-to-install solution



- 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



MasterConnect For an easy step into smart lighting.

For top performance and sustainability.

Price



Trusted performance

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

Product overview



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



MASTER LEDtube InstantFit HF T5

• Quickest and easiest upgrade to LED

• Optimized glass design to reduce glare



3

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

New regulation for optimized light guality

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 stroboscobic 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!



eptember 202 Stroboscopic effect: . SVM¹ ≤ 0,9² ow-flicker qualities $P_{st}LM \le 1$

September 2024 Stroboscopic effect: $SVM^1 < 0.4^2$

Real pros choose the new super-saver

The new 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 due to rotatable endcap design
- High flux thanks to small beam angle of 160 degrees

* For warranty conditions, visit www.lighting.philips.com/main/support/support/warranty

Finding the right output

For ultra-output applications, our solutions meet lighting industry standards (EN12464-1) by providing high light levels without causing discomfort or glare³.

Lux

Working, typing reading and data processing require sufficient light with a minimum lux leve



Sufficient light

Unified Glare Rating (UGR)

The amount of glare, annoyance or reflection created by high or non-uniform brightness must be kept to a minimum.



Discomfort glare

Whatever you need, we've got it covered



¹ SVM = stroboscopic effect visibility measure

² Exemptions: light sources for outdoor, industry and other uses with a color rendering CRI \leq 80

³ Final light quality, besides the LED tube, also depends on application circumstances like e.g. type of luminaire used and amount of daylight



Light output

UO Ultra output

HO High output

Connectivity





Wireless connectivity

4

Real pros choose new connections for new opportunities

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

Who says you have to spend a lot of money to have smart lighting? Take your first step with Philips MasterConnect LEDtubes: smart retrofit LED tubes that give you an easy and seamless way to upgrade and embrace all benefits of connected lighting.

Thanks to the proven wireless connected technology, MasterConnect LEDtubes maximize energy savings, while providing wireless and automated light for your comfort and convenience.

- 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

interact ready.

Add switches

for wireless lighting

effective installation

· Wireless dimming and scenes

· No control wires for cost

• Perfect for office, school, retail, healthcare, parking and warehouse

Works with Interact and Philips MasterConnect apps



Add sensors for automated lighting

· Automated lighting through occupancy detection · Daylight harvesting



· Remote and personal control of lighting · Management dashboard

Lighting possibilities with MasterConnect LEDtubes





Open plan office

Optimize energy savings by automatically switching lighting on/off depending on natural light levels and occupany in pre-defined zones.







Classroom

Manually adjust lighting levels to suit diverse learning activities, tasks and times of day. Profit from occupancy and daylight detection for optimized energy efficiency.



Parking garage

Maximize energy savings and safety by automatically boosting or dimming the lights depending on presence in the area.





Warehouse

Create safe, optimally illuminated workplaces while keeping costs down. Thanks to sensors, lights are only on in occupied areas, and dimmed or off in empty areas.

Energy savings up to



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:	ŶŶŶŶŶ	ŶŶ	ŶŶŶ				ŶŶŶŶŶŶ			
Industry Burning hours: varies, max. 24/7 Light requirement: 200–500+ lux	(~	~	~	~	~	~		~	~
Warehouses/factories Burning hours: 12 hrs/day to 24/ Light requirement: 200–300 lux	7		~	~	~	~	~	~		~	~
Car park Burning hours: 24/7 Light requirement: 200+ lux		~	~		~			~		~	
Supermarket/retail Burning hours: 12 hrs/day to 24/ Light requirement: 500+ lux	7		~	~	~	~		~		~	
Office/school/healthcare Burning hours: usually 12 hrs/day Light requirement: 500+ lux	у		~	~	~	~	~	~	~		
Public buildings Burning hours: 12 hrs/day to 24/ Light requirement: 100–500+ lux			~		~			~	~	~	

Find the right Philips LED tube for every application and demand using our handy product finder: **philips.com/productfinder**

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	savings/year		5,882 €	6,071 €			
Payback period		1.2 months	2.8 months	4.4 months			
	7 17	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		
Lifetime	15,000 hrs	60,000 hrs	70,000 hrs	60,000 hrs	70,000 hrs		
Lamp wattage	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						
Total savings/year		4,029 €	4,158 €	5,500 €	5,569 €		
Payback period		6 months	9.7 months	5 months	8.2 months		
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 Value LEDtubes HO for an optimal mix of value and performance Choose MASTER Value LEDtubes HO for an optimal mix of value and performance Choose MASTER Value LEDtubes HO for an optimal mix of value and performance							

All calculations are based on the European average of 12 cent/kW hour. *Including maintenance and lamp replacement cost



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		
Lifetime	15,000 hrs	60,000 hrs	70,000 hrs	70,000 hrs		
Lamp wattage	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				
Total savings/year		11,153 €	11,292 €	23,057 €		
Payback period		6.6 months	10.8 months	6.5 months		
		Choose MASTER Value LEDtubes HO for an optimal mix of value and performance	Choose MASTER LEDtubes UO for the best light output in industry applications	Choose MASTER LEDtubes UE for very demanding industry applications – with the best total cost of ownership over lifetime		



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		
Lifetime	15,000 hrs	60,000 hrs	70,000 hrs	60,000 hrs	70,000 hrs		
Lamp wattage	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						
Total savings/year		6,715 €	6,930 €	6,366 €	6,445 €		
Payback period		9.7 months	15.6 months	11.6 months	18.9 months		
	Klo	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 before, during and after projects is important to us. Our large local service teams make sure you always get the competent support and information you need.
- We are closely working with local wholesalers to offer you flexible and on-time delivery and product availability you can rely on.
- To help you stay on top of your game the Signify Lighting Academy offers a comprehensive range of educational resources for you to grow your expertise and get certified.

The best products

- We're setting new standards for high-quality products that result in less maintenance, fewer technical hiccups and strengthens your reputation as a reliable lighting expert.
- Philips LED products are designed with easy installation in mind, saving you time and money.
- From connected lighting solutions to 3D printed luminaires 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. To unlock this potential, we strive to bring the most energy-efficient products to the market. And we do more: by recycling up to 90% of our manufacturing waste, using 100% renewable electricity and saving over 500,000 kilos of plastic waste per year through our paper packaging!



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





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