



**LEDVANCE**

**SWITCH TO LED NOW**

# ALTERNATIVE LIGHTING OPTIONS FOR INDUSTRIAL APPLICATIONS



## YOUR CHALLENGE

**Exchange of T8 fluorescent lamps lighting:** Illumination for industrial applications largely depends on the type of business and the activities involved. However, it is always important to combine high efficiency and robustness with a quality of light that meets demanding visual tasks and therefore not only increases the quality of work but also minimizes the risk of accidents. With a switch to LED, these requirements can be covered. In addition, the LED alternative allows significant savings in energy costs and thus reduction of CO<sub>2</sub>.

## 4 OPTIONS FOR ALL SITUATIONS – HOW TO SWITCH

### SOLUTIONS WITH LED LAMPS



#### RETROFIT



Switching from fluorescent lamps to LED lamps in existing luminaires is quick, easy and economical – either as retrofits or conversions.

#### CONVERSION



### SOLUTIONS WITH LED LUMINAIRES



#### UPGRADE



If the focus is on optimal light output and quality, maximum efficiency and perhaps added benefits, it's worth upgrading the luminaires or installing new ones.

#### NEW INSTALLATION



The ban on mercury-containing and inefficient lamps has been in force since 2023. With high energy costs and increasing demand for sustainable lighting, now is the best time to move over to EU-compliant, energy-efficient and cost-effective LED lighting. Even more as conventional types are less and less available!



Directly go to  
[ledvance.com/  
lampfinder](https://www.ledvance.com/lampfinder)

### BEST PLANS, BEST LIGHT - OUR SERVICE OFFERING FOR YOUR PERFECT PROJECT MANAGEMENT

As your professional lighting partner we support you in your lighting projects with advice matched to your needs, a tailored selection of products and excellent service. From a single source.

Our experts are happy to advise you. You can reach us at: [contact@ledvance.com](mailto:contact@ledvance.com), +49 89 780673-600

# YOUR SOLUTION

# SWITCH TO LED NOW: IT ALL ADDS UP IN A SHORT TIME AND THE POTENTIAL SAVINGS ARE ENORMOUS



## LED RETROFIT<sup>1</sup> SIMPLE 1:1 REPLACEMENT

LED TUBE T8 UNIVERSAL  
ULTRA OUTPUT P  
1500 mm 23W 840  
4099854026577 EAN (GTIN)



## LED CONVERSION REWIRING OR MODIFICATION TO DIRECT 230 V AC

LED TUBE T8 EM S  
1500 mm 17.7W 840  
4099854037658 EAN (GTIN)



## UPGRADE USING LED UPGRADE KITS

TRUSYS UNIVERSAL P  
73W 840 W CL PS  
4099854311628 EAN (GTIN)



	OLD: Traditional T8 58W	NEW: LED TUBE T8 UNIVERSAL UO P 23W	Savings	NEW: LED TUBE T8 EM S 17.7W	Savings	NEW: TRUSYS UNIV P 73W W CL PS	Savings
Guarantee		5 years <sup>2</sup>		5 years <sup>2</sup>		5 years <sup>2</sup>	
Efficiency	90 lm/W	160 lm/W		175 lm/W		170 lm/W	
System wattage	58 W	25 W (incl. losses at ECG) <sup>3</sup>		17.7 W (AC)		73 W	
Average lifetime	15 000 h	60 000 h		75 000 h		100 000 h <sup>4</sup>	
Energy consumption of project	5.8 kW	2.5 kW		1.77 kW		3.65 kW	
Energy consumption over period of operation	208 800 kWh	90 000 kWh	118 800 kWh	63 720 kWh	145 080 kWh	131 400 kWh	77 400 kWh
CO <sub>2</sub> Emissions (231 g/kWh) <sup>5</sup>	48 233 kg	20 790 kg	27 443 kg	14 719 kg	33 513 kg	30 353 kg	17 879 kg
Total cost savings up to		54 %		67 %		30 %	
Payback time from		4 months		2 months		4 months	

GLOBAL PARAMETERS <sup>6</sup>: Period of operation: 60 months, 5 years, 36 000 operating hours | Operating times: 6 days per week, 50 weeks per year, 24 hours per day | Number of light points: lamps 100, luminaires 50

### SMALL EFFORT, BIG IMPACT

Switching to future-oriented LED technology takes no great effort. Thanks to TRUSYS UNIVERSAL's clever click-into-place function it can be easily and quickly integrated into most existing trunking systems. The results are impressive. With its excellent efficiency of up to 180 lm/W TRUSYS UNIVERSAL helps save up to 70 % energy and therefore costs compared to fluorescent technology. Available in a variety of beam angles, on/off, DALI-2 versions and also suitable for central battery system in emergency lighting operation.



### FIND OUT MORE AT:



ledvance.com/  
tubes



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trusys-universal

<sup>1</sup> Product can be operated on traditional CCG, ECG (Retrofit) or AC Mains (Conversion) | <sup>2</sup> Refer to www.ledvance.com/guarantee for precise conditions | <sup>3</sup> ECG losses depend on ECG type, check ECG compatibility before installation  
<sup>4</sup> t [h]: L80/B10 at 25 °C (T<sub>a</sub>) | <sup>5</sup> 2020 European level of GHG emission intensity of electricity generation (www.eea.europa.eu) | <sup>6</sup> Calculation Parameters: Replacement costs for one lamp: Traditional T8 58W 5.45 €/piece, LED TUBE T8 UNIVERSAL ULTRA OUTPUT P 23W 37.30 €/piece, LED TUBE T8 EM S 17.7W 21.90 €/piece, TRUSYS UNIVERSAL P 73W W CL PS 152 €/piece, costs for exchanging: retrofit lamp 10.00 €/housing, conversion lamp 15.00 €/housing, luminaire 15.00 €/piece, electricity costs: 0.40 €/kWh. \*Illustrative pricing. Prices may vary in your country.