



**LEDVANCE**

**SWITCH TO LED NOW**

# ALTERNATIVE LIGHTING OPTIONS FOR SCHOOL / TRAINING ROOMS



## YOUR CHALLENGE

**Exchange of T8 fluorescent lamps lighting:** Whether it's a workshop, lecture, presentation or computer lab, in line with the flexible use of space, the lights have to adapt to different situations and provide both high lighting quality and aesthetic design. An economical solution is the use of LED Tubes. A switch to LED saves electricity costs and CO<sub>2</sub> - and it pays for itself in a very short time.

## 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 SIMPLE 1:1 REPLACEMENT

LED TUBE T8 HF  
ULTRA OUTPUT P  
1200 mm 15W 840  
4099854026133 EAN (GTIN)



## LED CONVERSION<sup>1</sup> REWIRING OR MODIFICATION TO DIRECT 230 V AC

LED TUBE T8 EM  
ULTRA OUTPUT S  
1200 mm 14W 840  
4099854037115 EAN (GTIN)



## LED LUMINAIRE NEW INSTALLATION

LINEAR INDIVILED D 1200 P  
30W 940 PS WT  
4099854135330 EAN (GTIN)



TOTAL  
COST SAVINGS  
UP TO **54%**

TOTAL CO<sub>2</sub>  
SAVINGS  
UP TO **61%**

PAYBACK  
TIME FROM  
**7** MONTHS

ENERGY  
SAVINGS UP TO  
**12 813** KWH

COST SAVINGS  
FOR ELECTRICITY  
UP TO **61%**

	OLD: Traditional T8 36W	NEW: LED TUBE T8 HF ULTRA OUTPUT P 15W	Savings	NEW: LED TUBE T8 EM ULTRA OUTPUT S 14W	Savings	NEW: LN INV D 1200 P 30W	Savings
Guarantee		5 years <sup>2</sup>		5 years <sup>2</sup>		5 years <sup>2</sup>	
Efficiency	90 lm/W	160 lm/W		185 lm/W		130 lm/W	
System wattage	36W	17W (incl. losses at ECG) <sup>3</sup>		14W (on AC)		30W	
Average lifetime	15 000 h	75 000 h		75 000 h		70 000 h <sup>4</sup>	
Energy consumption over period of operation	1.2 kW	0.5 kW		0.4 kW		0.5 kW	
Energy consumption over period of operation	20 966 kWh	9 901 kWh	11 066 kWh	8 154 kWh	12 813 kWh	8 736 kWh	12 230 kWh
CO <sub>2</sub> Emissions (231 g/kWh) <sup>5</sup>	4 843 kg	2 287 kg	2 556 kg	1 883 kg	2 960 kg	2 018 kg	2 825 kg
Total cost savings up to		43 %		54 %		12 %	
Payback time from		12 months		7 months		58 months	

GLOBAL PARAMETERS<sup>6</sup>: Period of operation: 60 months, 5 years, 18 200 operating hours | Operating times: 5 days per week, 52 weeks per year, 14 hours per day | Number of light points: lamps 32, luminaires 16

## DIRECT AND INDIRECT LIGHT EMISSION

LINEAR INDIVILED<sup>®</sup> DIRECT/INDIRECT a pendant luminaires with direct and indirect light emission, is the perfect replacement for suspended luminaires with fluorescent lamps.

- Luminaire in timeless SCALE design, usable as a single luminaire or light line application
- Versions available with DALI ECG or emergency lighting
- Increased light comfort thanks to direct and indirect light emission
- Low flicker light thanks to special electronic control gear
- Focussing on sustainability and circular economy
- MULTI LUMEN function



**BLACK IS BEAUTIFUL:**  
now black and white types  
available as on/off, DALI  
and DALI sensor versions



## FIND OUT MORE AT:



ledvance.com/  
tubes



ledvance.com/  
linear-indiviled-direct

<sup>1</sup> Product can be operated on traditional CCG (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: Traditional T8 36 W 4.60 €/piece, LED TUBE T8 HF ULTRA OUTPUT P 15W 32.00 €/piece, LED TUBE T8 EM ULTRA OUTPUT S 14W 19.35 €/piece, LN INV D 1200 30W 255.00 €/piece, costs for exchanging: retrofit lamp 10.00 €/housing, conversion lamp 15.00 €/housing, luminaire 20.00 €/piece, electricity costs: 0.40 €/kWh. \*Illustrative pricing. Prices may vary in your country.