

SWITCH TO LED



FLUORESCENT LAMP BAN 2023

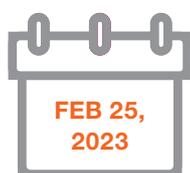
# ALTERNATIVE LIGHTING OPTIONS FOR TUNNELS AND UNDERPASSES

## YOUR CHALLENGE

**Exchange of T8 fluorescent lamps lighting:** Public places in public transport and underpasses become more attractive and safer with the right light. The advantages of light sources with LED technology also prove themselves in these lighting situations: they reduce light pollution, offer flexible light distributions, are inherently highly efficient, and can also be controlled with light management. Good conditions for saving energy costs and reducing CO<sub>2</sub>.

### GENERAL INFORMATION: AMENDMENT TO EU ROHS DIRECTIVE 2011/65/EU

The EU RoHS Directive 2011/65/EU has been updated. With us as a strong partner, you can continue to make your lighting projects sustainable, future-proof and successful.



Ban on placing compact fluorescent lamps with plug-in bases (CFLni) on the market



Ban on placing T5 and T8 fluorescent lamps on the market



For a detailed overview go to [ledvance.com/rohs](https://ledvance.com/rohs)



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

Are you wondering which technology you need for your luminaire with T8 fluorescent lamp – EM or HF? Just use our insider tip on: [ledvance.com/led-tubes-special](http://ledvance.com/led-tubes-special)



### LED RETROFIT<sup>1</sup>

LED TUBE T8 EM ULTRA OUTPUT P 1500 mm 23.1W 840 4099854037030 EAN (GTIN)



### LED CONVERSION<sup>1</sup>

LED TUBE T8 EM ULTRA OUTPUT P 1500 mm 23.1W 840 4099854037030 EAN (GTIN)



### LED LUMINAIRE

DP COMPACT 1500 55 W 4000K IP66 GR 4058075210103 EAN (GTIN)



TOTAL SAVINGS UP TO **64%**

TOTAL CO<sub>2</sub> SAVINGS UP TO **66%**

PAYBACK TIME FROM **< 2 MONTHS**

ENERGY SAVINGS UP TO **196 123 kWh**

COST SAVINGS FOR ELECTRICITY UP TO **66%**

	OLD: Traditional T8 58W	NEW: LED TUBE T8 EM ULTRA OUTPUT P 23.1W	Savings	NEW: LED TUBE T8 EM ULTRA OUTPUT P 23.1W	Savings	NEW: DP COMPACT 1500 55 W	Savings
Guarantee		<b>5 years<sup>2</sup></b>		<b>5 years<sup>2</sup></b>		<b>5 years<sup>2</sup></b>	
Efficiency	<b>90 lm/W</b>	<b>160 lm/W</b>		<b>160 lm/W</b>		<b>120 lm/W</b>	
System wattage	<b>68 W</b> (incl. losses at CCG)	<b>24.1 W</b> (incl. losses at CCG)		<b>23.1 W</b> (on AC)		<b>55 W</b>	
Average lifetime	<b>15 000 h</b>	<b>60 000 h</b>		<b>60 000 h</b>		<b>50 000 h<sup>3</sup></b>	
Energy consumption of project	<b>6.8 kW</b>	<b>2.4 kW</b>		<b>2.3 kW</b>		<b>2.8 kW</b>	
Energy consumption over period of operation	<b>297 024 kWh</b>	<b>105 269 kWh</b>	<b>191 755 kWh</b>	<b>100 901 kWh</b>	<b>196 123 kWh</b>	<b>120 120 kWh</b>	<b>176 904 kWh</b>
CO <sub>2</sub> Emissions (231 g/kWh) <sup>4</sup>	<b>68 613 kg</b>	<b>24 317 kg</b>	<b>44 295 kg</b>	<b>23 308 kg</b>	<b>45 304 kg</b>	<b>27 748 kg</b>	<b>40 865 kg</b>
Total cost savings up to		<b>63%</b>		<b>64%</b>		<b>55%</b>	
Payback time from		<b>&lt;2 months</b>		<b>&lt;2 months</b>		<b>&lt;2 months</b>	

GLOBAL PARAMETERS <sup>5</sup>: Period of operation: 60 months, 5 years, 43 680 operating hours | Operating times: 7 days per week, 52 weeks per year, 24 hours per day | Number of light points: 100 lamps, 50 luminaires

#### THE IDEAL CHOICE FOR LAMP FANS

A strong combination: T8 LED lamp, in a robust DAMP PROOF HOUSING.

- Sustainable solution thanks to replaceable lamps
- Prewired for easy installation of tubular AC LED lamps
- Suitable for LED TUBE EM/UN and LED TUBE Connected
- Luminaire housing, available for 1 or 2 T8 LED lamps
- Type of protection: IP65, Impact resistance: IK08
- Housing made of robust polycarbonate (PC)



→ Take advantage of our services for your projects and get in touch at:  
**Email:** [contact@ledvance.com](mailto:contact@ledvance.com) | **Phone:** +49 89 780673-660

#### FIND OUT MORE AT:



[ledvance.com/lampfinder](http://ledvance.com/lampfinder)



[ledvance.com/lamps](http://ledvance.com/lamps)

<sup>1</sup> Product can be operated on traditional CCG (Retrofit) or AC Mains (Conversion) | <sup>2</sup> Refer to [www.ledvance.com/guarantee](http://www.ledvance.com/guarantee) for precise conditions | <sup>3</sup> t [h]: L70/B50 at 25 °C (T<sub>a</sub>) | <sup>4</sup> 2020 European level of GHG emission intensity of electricity generation ([www.eea.europa.eu](http://www.eea.europa.eu)) | <sup>5</sup> Calculation Parameters: Replacement costs: Traditional T8 58W 4.50 €/piece, LED TUBE T8 EM ULTRA OUTPUT P 23.1W 21.00 €/piece, DP COMPACT 1500 55 W 99.10 €/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.